

Memorial University of Newfoundland

CALENDAR 2012-2013

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Memorial University of Newfoundland is the perfect place to inspire ingenious 21st-century explorers. Nestled in the free and awe-inspiring landscapes of Newfoundland & Labrador, this University offers unusual and compelling opportunities to learn, to explore and to achieve. With over 18,800 students working together across four campuses, Memorial University of Newfoundland is more than just a university, it is a community of learning.

The 2012-2013 University Calendar is on-line at www.mun.ca/regoff/calendar.php.

IN MEMORIAM

Three hundred and ten former students of the Memorial University College offered themselves for active service in the Second Great War, 1939-1945. The University holds in special honour the past students who have been reported dead or missing and whose names are here given.

DAVID MONROE BAIRD
LAWRENCE BANIKHIN
JOHN HAMILTON BARRETT
WALTER ROBERT BUTT
HERBERT BOND CLARKE
ROY CLARKE
WILLIAM BRADLEY COLLINS
THOMAS JOSEPH DELANEY
JOHN KEVIN EVANS
VICTOR RAYMOND FRENCH
NEIL WILLOUGHBY HARNETT
WILLIAM PALMER HOWSE
DAVID SIMPSON KERR
BRENDAN DAVID LACEY
HAROLD LEWIS LEARNING
LIONEL EDGAR LEGGE
WALLACE CLIFFORD LUTHER
EDGAR RAYMOND MARTIN
DAVID GORDON MORRIS
CLARENCE WALTER PARSONS
ALEXANDER DUNCAN SAINT
ARTHUR JAMES SAMSON
BERNARD THOMAS SCAMMELL
FRANCIS SMITH
ERIC AUGUSTUS SNOW
CHARLES HENRY STEWART
JAMES ROBIN STICK
PHILIP FRANCIS TEMPLEMAN
HAROLD BAXTER WAREHAM
JAMES WALCOT WINTER

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THIS UNIVERSITY
WAS RAISED BY
THE
PEOPLE OF NEWFOUNDLAND
AS A MEMORIAL TO
THE FALLEN
IN THE GREAT WARS

1914 - 1918

1939 - 1945



THAT IN FREEDOM OF LEARNING
THEIR CAUSE AND SACRIFICE
MIGHT NOT BE FORGOTTEN



ERECTED BY
THE NEWFOUNDLAND COMMAND
OF THE ROYAL CANADIAN REGIMENT

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GENERAL INFORMATION

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1 Note

The contents of this calendar set forth the intentions of the University at the time of publication, with respect to the matters contained therein. THE UNIVERSITY EXPRESSLY RESERVES THE RIGHT TO DEVIATE FROM WHAT APPEARS IN THE CALENDAR, including both the content and scheduling therein, in whole or in part, and including, without limiting the generality of the foregoing, the right to revise the content of, and to cancel, defer, reschedule or suspend, in whole or in part, the scheduling of particular periods of instruction, courses, or programs, and the academic program of the University, and to alter, accelerate or defer fees and charges, and to do any or all of the above either in order to serve what the University considers to be the best interests of the academic or student community or of the University itself, or because of any circumstance or occurrence, whether occurring by or through the wilful act or negligence of the University, its agents, servants and employees, or otherwise and whether or not beyond the reasonable or other control of the University, and without limiting the generality of the foregoing, as a result of circumstances or occurrences including financial resources, natural catastrophe or disaster, the health, safety and well-being of the employees or students of the University, labour disagreements or disputes, slow-downs, work-stoppages, and strikes. THE UNIVERSITY DOES NOT ACCEPT, AND HEREBY EXPRESSLY DISCLAIMS, ANY OR ALL RESPONSIBILITY OR LIABILITY to any person, persons or group, for any loss, injury, damages or adverse effect, either direct or indirect, consequential or otherwise, arising out of any one or more of such deviations. The University hereby disclaims liability to any person who may suffer loss as a result of reliance upon any information contained in this calendar.

The rights and obligations of parties subject to the Calendar and the rules and regulations of Memorial University of Newfoundland shall be governed by the laws of the Province of Newfoundland and Labrador. Any action or proceeding against Memorial University of Newfoundland shall be brought in the Province of Newfoundland and Labrador.

Each and every of the subsequent provisions contained in this Calendar, and the relationship, both legal and otherwise, between the University, and its students, is expressly subject to and governed by the above provisions.

The Office of the Registrar will assist students with any questions or problems which might arise concerning the interpretation of academic regulations. It is, however, the responsibility of students to see that their academic programs meet the University's regulations in all respects.

2 The Memorial University of Newfoundland Code

All members of the Memorial University of Newfoundland Community, which includes students, faculty, and staff, shall treat others with respect and fairness, be responsible and honest, and uphold the highest standards of academic integrity.

3 Glossary of Terms Used in This Calendar

In this calendar "Grenfell Campus" or "Grenfell " refers to Grenfell Campus, Memorial University of Newfoundland and "Marine Institute" refers to the Fisheries and Marine Institute of Memorial University of Newfoundland. "University", when capitalized, refers to Memorial University of Newfoundland.

Academic standing:

is an enrolment status normally determined each semester by a regular evaluation procedure used to assess whether or not students are meeting the standards prescribed for continuing in the University and/or their programs.

Academic unit:

refers to a centre, department, division, faculty, program or school, other than an administrative unit, as the context requires.

Academic year:

runs from September 1 to August 31.

Accelerated course:

is a course that is offered in a shorter time frame than a semester or session.

Administrative unit:

refers to an office, division or centre, other than an academic unit, as listed in the **Offices of the University** section of the Calendar.

Appeal:

is the challenge of, or the request for review of, a judgment regarding the application of regulations.

Assignment:

is an evaluative exercise including but not limited to assigned work, term papers and projects.

Certificate:

is an academic designation awarded for the completion of a specified program of study which is of shorter duration than a degree or diploma.

Challenge for credit:

is the request for consideration of academic credit resulting from experience or knowledge gained elsewhere for which transfer credit cannot be awarded.

Co-requisite course:

is a course which may be taken concurrently with or successfully completed prior to the course for which it is required.

Course:

is a unit of work in a particular subject normally extending through one semester or session, the completion of which normally carries credit toward the fulfilment of the requirements of certain degrees, diplomas or certificates.

Course number:

courses are designated by four characters. The first character signifies the level of the course. Where all four characters are numeric, the last three are used by academic units to indicate various information such as course sequence and area of study. Where the last character is alphabetic, the letter:

A or **B** identifies a linked course. No credits or points are given until the "B" part is completed.

C identifies an English course that does not carry credit towards a degree, diploma or certificate.

F identifies a foundation course that is intended to remedy a specific academic weakness and does not carry credit towards a degree, diploma or certificate.

T identifies an undergraduate teaching internship offered by the Faculty of Education.

W identifies a course in either a work term in a co-operative program or a special project in certain of the professional schools and faculties and may or may not be assigned credit hours.

X identifies a course which represents an entire semester's work and carries 15 credit hours.

Courses offered outside of the normal time frame:

are those with different start and/or end dates than those of the semester or session.

Credit hour:

is the measure used to reflect the relative weight of a given course toward the fulfilment of appropriate degree, diploma, certificate, major, minor, or other program requirements. A weight of 1 credit hour normally means that the course meets for lectures one hour per week for the duration of a semester or two hours per week for the duration of a session. Unless otherwise indicated, a course normally has a credit value of 3 credit hours.

Credit-restricted courses:

are courses which are closely related but not equivalent. Credit is limited to one of the credit-restricted courses. Normally, credit-restricted courses cannot be substituted, one for the other, to satisfy program requirements.

Cross-listed courses:

are courses which are listed under two or more academic units and which can be taken for credit from one unit only. Cross-listed courses can be substituted, one for the other, to satisfy program requirements.

Degree:

is an academic designation awarded for the completion of a specified program of study which is of longer duration than a diploma or certificate.

Diploma:

is an academic designation awarded for the completion of a specified program of study which is of shorter duration than a degree and longer duration than a certificate.

Distance education course:

is a university course designed for people who wish to study outside a traditional university setting. Instructors and students are separated by time and/or space. Distance education courses include correspondence, teleconference and world wide web courses.

Equivalent courses:

are those which are determined to be equal for credit determination, although the subject area or course number will differ. These are normally identified with the phrase "Same as".

Examination:

is an evaluative exercise including but not limited to tests, quizzes or mid-terms, final or supplementary examinations.

Foundation course:

is a course intended to remedy a specific academic weakness and is identified by the letter "F" as the last character of the course number. A foundation course does not carry credit towards a degree, diploma or certificate.

GPA:

is the abbreviation for grade point average.

Head of academic unit:

includes but is not limited to co-ordinator, dean, department head, division head, associate vice-president academic, vice-president, or equivalent.

Inactive courses:

are courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year.

Lecturing period:

is a designated period of lectures within a semester or session as defined by the University Diary.

Linked course:

is a course comprising two components and is normally identified by the letter "A" or "B" as the last character of the course number. No credits or points are given until the "B" part is completed.

Major:

is a subject or field of study which a student normally specializes in during the course of degree studies.

Minor:

is a subject or field of study which a student normally pursues secondary to a major during the course of degree studies.

Prerequisite course:

is a course which must be successfully completed prior to commencing the course for which it is required.

Program:

is a series of courses, the successful completion of which, if all requirements are met, qualifies the candidate for a degree, diploma or certificate.

Registration:

is the process of selecting, enrolling in, and being assessed fees for courses.

Registration period:

is, in any semester, the period extending from the first day of registration to two weeks following the first day of lectures, as stated in the University Diary. In any session, it is the period extending from the first day of registration to one week following the first day of lectures, as stated in the University Diary.

Repeatable course:

is a course that may be taken for credit in several semesters to a maximum number of credit hours. All such courses shall have specified both the number of credit hours assigned per semester and the maximum number of credit hours to be awarded.

Semester:

is a period of approximately fourteen consecutive weeks during which there are at least twelve weeks of lecture. Normally the Fall semester commences in early September, the Winter semester in early January, and the Spring semester in early May.

Session:

is a period of approximately seven consecutive weeks in the Spring semester during which there are at least six weeks of lecture. The first half of Spring semester is designated as Intersession; the second half of Spring semester is designated as Summer session.

Student-Web/Student Self-Service:

is a suite of e-business student services including registration and the provision of personalized student information.

Transcript:

is the complete and unabridged report of a student's academic record.

Transfer credit:

is academic credit granted for work completed at an institution other than Memorial University of Newfoundland.

Waiver:

is the permission granted by the appropriate authority for exemption from a particular program requirement and/or a particular university regulation.

4 University Diary for the Academic Year 2012-2013

June 1, 2012, Friday	Registration begins for residents and for undergraduate Medical students
July 1, 2012, Sunday	Academic year begins for residents
July 16, 2012, Monday	Registration begins for eligible students registering in undergraduate courses, Fall semester 2012
August 6, 2012, Monday	Deadline for registration and fees payment for interns/residents Registration begins for graduate students, Fall semester, 2012
August 20, 2012, Monday	Fall Work Term begins for Co-operative Education students
August 20 to 24, 2012, Monday to Friday	Orientation for new first year Medical students
August 24, 2012, Friday	Deadline for registration for undergraduate Medical students
September 1, 2012, Saturday	Final date for filing applications for admission to graduate programs commencing in Winter semester 2013. Applications received after this date will be processed as time and resources permit. Applicants should note that most graduate academic units have earlier deadlines and should be contacted directly for further information
September 3, 2012, Monday	Labour Day. No lectures
September 3 & 4, 2012 Monday & Tuesday	Orientation for all new first semester undergraduate students
September 4, 2012, Tuesday	Fall internship begins for Education students (Primary/Elementary, Music Education, Native and Northern) Sessions begin for pre-clerkship medical students
September 5, 2012, Wednesday	Lectures begin, Fall semester Deadline for fees payment, Fall semester Deadline for fees payment, undergraduate Medical students, Fall semester
September 11, 2012, Tuesday	Regular meeting of the Senate
September 12, 2012, Wednesday	Final date for receipt, by the Registrar, of replacement grades for "INCOMPLETE" grades in undergraduate and graduate courses, Spring semester (Intersession, Summer Session and 14-week) 2012
September 19, 2012, Wednesday	End of Regular Registration Period and last day for undergraduate and graduate students to add courses, Fall semester Last day for undergraduate students to drop courses and receive a 100% refund of tuition fees, Fall semester
September 24, 2012, Monday	Fall internship begins for Education students (Intermediate/Secondary)
September 26, 2012, Wednesday	Last day for undergraduate students to drop courses and receive a 50% refund of tuition fees, Fall semester Final date for graduate students to withdraw from programs without incurring liability for tuition fees, Fall semester Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to be deregistered from graduate Registration 9000/Medicine 9900 without incurring any liability for continuance fees, Fall semester
October 1, 2012, Monday	Final date for filing applications for undergraduate admission/re-admission to Winter semester 2013. Applications received after this date will be processed as time and resources permit
October 3, 2012, Wednesday	Last day for undergraduate students to drop courses and receive a 25% refund of tuition fees, Fall semester. No tuition fees are refunded for courses dropped after this date
October 5, 2012, Friday	Annual Fall Convocation, Grenfell Campus session, Corner Brook Fall internship ends for Education students (Intermediate/Secondary)
October 8, 2012, Monday	Thanksgiving Day. No lectures. Fall Semester Break begins at St. John's and Grenfell Campuses
October 9, 2012, Tuesday	Regular meeting of the Senate
October 10, 2012, Wednesday	Lectures resume at St. John's and Grenfell Campuses. Lectures will follow the Monday schedule on this day only
October 11, 2012, Thursday	Lectures will follow the Tuesday schedule on this day only

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October 18 to 23, 2012 Thursday to Tuesday	MUNdays: Join in this annual festival of events at both Grenfell and St. John's campuses - celebrating creativity, diversity, service and leadership at Memorial University of Newfoundland
October 19, 2012, Friday	Annual Fall Convocation, St. John's
October 24, 2012, Wednesday	Last day for undergraduate students and graduate students to drop courses without academic prejudice, Fall semester Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to receive a 50% refund of continuance fees, Fall semester
November 5, 2012, Monday	Registration begins for eligible students registering in undergraduate courses, Winter semester 2013
November 9, 2012, Friday	Ceremony of Remembrance, St. John's: Join the University community to commemorate the people of the Province who fought and died in the First and Second World Wars, and for whom this University is a living memorial Midterm break for pre-clerkship medical students
November 12, 2012, Monday	Remembrance Day holiday. No lectures
November 13, 2012, Tuesday	Regular meeting of the Senate Lectures resume for pre-clerkship medical students
November 16, 2012, Friday	Lectures will follow the Monday Schedule on this day only
November 21, 2012, Wednesday	Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to receive a 25% refund of continuance fees, Fall semester
November 30, 2012, Friday	Lectures end, Fall semester Registration begins for graduate students, Winter semester 2013
December 5, 2012, Wednesday	Examinations begin, Fall semester Final date for submission of Work Reports by Co-operative Education students
December 7, 2012, Friday	Fall internship ends for Education students (Primary/Elementary, Music Education, Native and Northern)
December 11, 2012, Tuesday	Regular meeting of Senate
December 14, 2012, Friday	Examinations end, Fall semester Sessions end for pre-clerkship medical students Fall Work Term ends for Co-operative Education students
December 16, 2012, Sunday	Sessions end for clerkship Medical students (class of 2014)
December 21, 2012, Friday	Sessions end for clerkship Medical students (class of 2013)
December 31, 2012, Monday	Sessions begin for clerkship Medical students (class of 2014)
January 1, 2013, Tuesday	Final date for filing applications for admission to graduate programs commencing in Spring semester 2013. Applications received after this date will be processed as time and resources permit. Applicants should note that most graduate academic units have earlier deadlines and should be contacted directly for further information
January 2, 2013, Wednesday	Winter Work Term begins for Co-operative Education students
January 3, 2013, Thursday	Sessions begin for pre-clerkship Medical students and clerkship Medical students (class of 2013) Winter internship begins for Education students (all programs)
January 6, 2013, Sunday	Orientation for all new first semester undergraduate students
January 7, 2013, Monday	Lectures begin, Winter semester Deadline for fees payment, Winter semester Deadline for fees payment, undergraduate Medical students, Winter semester
January 8, 2013, Tuesday	Regular meeting of the Senate
January 14, 2013, Monday	Final date for receipt, by the Registrar, of replacement grades for "INCOMPLETE" grades in undergraduate and graduate courses, Fall semester 2012 Final date for submission of Master's and Doctoral Theses and Reports for examination, by candidates who expect to receive their degree at the Spring Convocation 2013. Theses and Reports received after this date will be processed as time and resources permit
January 15, 2013, Tuesday	Final date for filing, with the Registrar, applications for Degrees and Diplomas for the Spring Convocation 2013. Applications received after this date will be processed as time and resources permit
January 21, 2013, Monday	End of Regular Registration Period and last day for undergraduate and graduate students to add courses, Winter semester Last day for undergraduate students to drop courses and receive a 100% refund of tuition fees, Winter semester

January 28, 2013, Monday	<p>Last day for undergraduate students to drop courses and receive a 50% refund of tuition fees, Winter semester</p> <p>Final date for graduate students to withdraw from programs without incurring liability for tuition fees, Winter semester</p> <p>Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to be deregistered from Graduate Registration 9000/Medicine 9900 without incurring any liability for continuance fees, Winter semester</p>
February 1, 2013, Friday	Final date for filing undergraduate applications for admission/re-admission to Spring semester (14-week, Intersession and Summer Session) 2013. Applications received after this date will be processed as time and resources permit
February 4, 2013, Monday	Last day for undergraduate students to drop courses and receive a 25% refund of tuition fees, Winter semester. No tuition fees are refunded for courses dropped after this date
February 12, 2013, Tuesday	Regular meeting of the Senate
February 18, 2013, Monday	Winter semester Break begins at St. John's and Grenfell Campuses
February 21, 2013, Thursday	Lectures resume at St. John's and Grenfell Campuses
February 25, 2013, Monday	<p>Final date for undergraduate and graduate students to drop courses without academic prejudice, Winter semester</p> <p>Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to receive a 50% refund of continuance fees, Winter semester</p>
March 1, 2013, Friday	Final date for filing undergraduate applications for admission/re-admission to Fall semester 2013. Applications received after this date will be processed as time and resources permit
March 12, 2013, Tuesday	Regular meeting of the Senate
March 18, 2013, Monday	Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to receive a 25% refund of continuance fees, Winter semester
March 22, 2013, Friday	Sessions end for Spring Break for pre-clerkship Medical students
March 25, 2013, Monday	Registration begins for eligible students registering in undergraduate courses, Spring semester (14-week courses, Intersession and Summer Session) 2013
March 28, 2013, Thursday	Winter internship ends for Education students (Intermediate/Secondary)
March 29, 2013, Friday	Good Friday. No classes or examinations
April 1, 2013, Monday	Sessions begin for pre-clerkship Medical students
April 5, 2013, Friday	Lectures end, winter semester
April 9, 2013, Tuesday	Regular meeting of the Senate
April 10, 2013, Wednesday	<p>Examinations begin, Winter semester</p> <p>Final date for submission of Work Reports by Co-operative Education students</p>
April 12, 2013, Friday	<p>Registration begins for graduate students, Spring semester (14-week courses, Intersession and Summer Session) 2013</p> <p>Sessions end for clerkship Medical students (class of 2013)</p> <p>Winter internship ends for Education students (Primary/Elementary, Music Education, Native and Northern)</p>
April 19, 2013, Friday	<p>Examinations end, Winter semester</p> <p>Winter Work Term ends for Co-operative Education students</p>
April 22, 2013, Monday	Spring Work Term begins for Co-operative Education students
May 1, 2013, Wednesday	Final date for filing applications for admission to graduate programs commencing in Fall semester 2013. Applications received after this date will be processed as time and resources permit. Applicants should note that most graduate academic units have earlier deadlines and should be contacted directly for further information
May 6, 2013, Monday	<p>Lectures begin, Intersession and 14-week Spring semester, including for Engineering academic term students</p> <p>Deadline for fees payment, Spring semester (14-week courses, Intersession and Summer Session)</p>
May 10, 2013, Friday	Annual Spring Convocation, Grenfell Campus session, Corner Brook
May 13, 2013, Monday	<p>Final date for receipt, by the Registrar, of replacement grades for "INCOMPLETE" grades in undergraduate and graduate courses, Winter semester 2013</p> <p>End of Regular Registration Period and last day for undergraduate and graduate students to add courses, Intersession</p> <p>Last day for undergraduate students to drop courses and receive a 100% refund of tuition fees, Intersession</p>
May 14, 2013, Tuesday	Regular meeting of the Senate

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May 16, 2013, Thursday	Last day for undergraduate students to drop courses and receive a 50% refund of tuition fees, Intersession
May 20, 2013, Monday	End of Regular Registration Period and last day for undergraduate and graduate students to add courses, 14-week Spring semester Last day for undergraduate students to drop courses and receive a 100% refund of tuition fees, 14-week Spring semester Last day for undergraduate students to drop courses and receive a 25% refund of tuition fees, Intersession. No tuition fees will be refunded for Intersession courses dropped after this date No lectures for pre-clerkship Medical students
May 27, 2013, Monday	Last day for undergraduate students to drop courses and receive a 50% refund of tuition fees, 14-week Spring semester Final date for graduate students to withdraw from programs without incurring any liability for tuition fees, 14-week Spring semester Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to be deregistered from Graduate Registration 9000/Medicine 9900 without incurring any liability for continuance fees, Spring semester
May 28, 29, 30 & 31, 2013, Tuesday, Wednesday, Thursday & Friday	Annual Spring Convocation, St. John's
May 30, 2013, Thursday	Final date for undergraduate and graduate students to drop courses without academic prejudice, Intersession
June 3, 2013, Monday	Last day for undergraduate students to drop courses and receive a 25% refund of tuition fees, 14-week Spring semester. No tuition fees will be refunded for 14-week Spring semester courses dropped after this date
June 14, 2013, Friday	Lectures end, Intersession
June 17, 2013, Monday	Examinations begin, Intersession Semester Break begins, 14-week Spring semester
June 19, 2013, Wednesday	Examinations end, Intersession
June 20, 2013, Thursday	Lectures resume, 14-week Spring semester
June 21, 2013, Friday	Lectures will follow the Monday schedule on this day only Sessions end for pre-clerkship Medical students Final date for submission of Master's and Doctoral Theses and Reports for examination, by candidates who expect to receive their degree at the Fall Convocation 2013. Theses and Reports received after this date will be processed as time and resources permit
June 24, 2013, Monday	Lectures begin for undergraduate students and for graduate courses, Summer Session Final date for undergraduate and graduate students to drop courses without academic prejudice, 14-week Spring semester Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to receive a 50% refund of continuance fees, Spring semester
June 30, 2013, Sunday	Academic year ends for residents
July 1, 2013, Monday	Memorial Day holiday. No lectures End of Regular Registration Period and last day for undergraduate and graduate students to add courses, Summer Session Last day for undergraduate students to drop courses and receive a 100% refund of tuition fees, Summer Session
July 4, 2013, Thursday	Last day for undergraduate students to drop courses and receive a 50% refund of tuition fees, Summer Session
July 8, 2013, Monday	Last day for undergraduate students to drop courses and receive a 25% refund of tuition fees, Summer Session. No tuition fees will be refunded for Summer Session courses dropped after this date
July 15, 2013, Monday	Final date for filing, with the Registrar, applications for Degrees and Diplomas for the Fall Convocation 2013. Applications received after this date will be processed as time and resources permit
July 18, 2013, Thursday	Final date for undergraduate and graduate students to drop courses without academic prejudice, Summer Session
July 22, 2013, Monday	Final date for Departments to submit Recommendation for Award of Degree in order for graduate students to receive a 25% refund of continuance fees, Spring semester
August 2, 2013, Friday	Lectures end, 14-week Spring semester, including for Engineering academic term students
August 3, 2013, Saturday	Lectures end, Summer Session Lectures will follow the Monday schedule for Summer Session courses
August 5, 2013, Monday	Examinations begin, 14-week Spring semester and Summer Session Final date for submission of Work Reports by Co-operative Education students

August 7, 2013, Wednesday	Examinations end, Summer Session
August 10, 2013, Saturday	Examinations end, 14-week Spring semester
August 16, 2013, Friday	Spring Work Term ends for Co-operative Education students

5 Governing Bodies and Staff

5.1 The Board of Regents 2012-2013

www.mun.ca/regents/

Officers of the Board

Robert E. Simmonds, QC, St. John's, Chair of the Board
Tina Scott, Secretary to the Board

Ex-Officio Members

The Chancellor
The President and Vice-Chancellor
The Provost and Vice-President (Academic)

Members Appointed by the Lieutenant-Governor in Council

Sheila Ashton, Corner Brook
Steve Belanger, St. John's
Gilbert Bennett, St. John's
Jerry Byrne, St. John's
Pat Coish-Snow, Clarenville
Mary Cormier, Corner Brook
Brian Dalton, St. John's
Michelle Daye, Grand Falls
Noreen Greene-Fraize, St. John's
Jim Keating, St. John's
Bill Matthews, St. John's
Vinod Patel, St. John's
Tony Roche, St. John's
Kathleen Roul, Lawn
Donna Stone, St. John's
Eleanor Swanson, St. John's

Members Elected by the Memorial University of Newfoundland Alumni Association

Margaret Earle, St. John's
Rex Gibbons, St. John's
James Hickey, St. John's
Kim Keating, St. John's
Luke Pike, St. John's
George Tucker, St. John's

Student Members Appointed by the Lieutenant-Governor in Council

Roger Bill, Graduate Students' Union
Richard Chislett, Marine Institute Students' Union
Sarah-Ann King, Grenfell Campus Students' Union
Michael Walsh, Memorial University of Newfoundland Students' Union

5.2 The Senate 2011-2012

www.mun.ca/senate/

Ex-officio Members

Dr. Gary Kachanoski: President and Chairman
General Rick Hillier: Chancellor
Dr. David Wardlaw: Provost/Vice-President (Academic)/Pro Vice-Chancellor
Dr. Christopher Loomis: Vice-President (Research)
Dr. Mary Bluehardt: Vice-President (Grenfell Campus)
Mr. Glenn Blackwood: Vice-President (Marine Institute)
Dr. Robert Shea: Deputy Provost (Students) and Associate Vice-President (Academic) (Undergraduate Studies) *pro tempore*
Dr. Mark Abrahams: Dean, Faculty of Science
Dr. Alean Al-Krenawi: Dean, School of Social Work
Dr. Kirk Anderson: Dean, Faculty of Education
Mr. Bruce Belbin: Assistant Deputy Minister of Advanced Studies (for Deputy Minister), Department of Education
Ms. Lorraine Busby: University Librarian
Dr. Antony Card: Dean, School of Human Kinetics and Recreation to July 1, 2012
Mr. Glenn Collins: University Registrar and Secretary of the Senate
Dr. Noreen Golfman: Dean, School of Graduate Studies
Dr. Linda Hensman: Dean, School of Pharmacy

Ms. Karen Kennedy: Director, Division of Lifelong Learning
Dr. Judith McFetridge-Durdle: Dean, School of Nursing
Dr. Greg Naterer: Dean, Faculty of Engineering and Applied Science, as of August 1, 2012
Dr. Lynne Phillips: Dean, Faculty of Arts, as of July 1, 2012
Dr. Lisa Rankin: Acting Dean, Faculty of Arts, June 1, 2011 - June 30, 2012
Dr. James Rourke: Dean, Faculty of Medicine
Dr. Ramachandran Venkatesan: Dean, *pro tempore*, Faculty of Engineering and Applied Science, July 1, 2011 - July 31, 2012
Dr. Ellen Waterman: Dean, School of Music
Dr. Wilfred Zerbe: Dean, Faculty of Business Administration

Elected Members

Dr. Faith Balisch: Faculty of Arts, Humanities
Dr. Peter Trnka: Faculty of Arts, Humanities
Professor Donna Walsh: Faculty of Arts, Humanities
Dr. Erwin Warkentin: Faculty of Arts, Humanities
Dr. Gary Riser: Faculty of Arts, Social Sciences
Dr. Christopher Sharpe: Faculty of Arts, Social Sciences
Dr. Michael Wernerheim: Faculty of Arts, Social Sciences
Dr. Dale Foster: Faculty of Business Administration
Dr. Katherine Gallagher: Faculty of Business Administration
Dr. Walter Okshevsky: Faculty of Education
Dr. Andrea Rose: Faculty of Education
Dr. Glyn George: Faculty of Engineering & Applied Science
Dr. Dennis Peters: Faculty of Engineering & Applied Science
Mr. Bert Riggs: Library
Dr. Jennifer Connor: Faculty of Medicine
Dr. Jim Connor: Faculty of Medicine
Dr. Gerard Farrell: Faculty of Medicine
Professor Diana Gustafson: Faculty of Medicine
Dr. Don McKay: Faculty of Medicine
Dr. Amin Ali Muhammad: Faculty of Medicine
Dr. Shree Mulya: Faculty of Medicine
Dr. Janet Brunton: Faculty of Science
Dr. Adrian Flech: Faculty of Science
Dr. Sue Ghazala: Faculty of Science
Dr. Robert Helleur: Faculty of Science
Dr. George Jenner: Faculty of Science
Dr. Serpil Kocabiyyik: Faculty of Science
Dr. Paul Marino: Faculty of Science
Mr. Paul Brett: Fisheries and Marine Institute
Mr. Carl Clarke: Fisheries and Marine Institute
Mr. Cyr Couturier: Fisheries and Marine Institute
Mr. Donald Haynes: Fisheries and Marine Institute
Dr. James Parsons: Fisheries and Marine Institute
Mr. Ray Roche: Fisheries and Marine Institute
Dr. Fabien Basset: School of Human Kinetics and Recreation
Dr. Paul Bendzsa: School of Music
Dr. Sandra LeFort: School of Nursing
Dr. Debbie Kelly: School of Pharmacy
Dr. Dennis Kimberley: School of Social Work
Dr. Sonya Corbin-Dwyer: Grenfell Campus
Dr. Paul Wilson: Grenfell Campus

Graduate Students

Mr. Sebastien Despres
Ms. Kim Keats
Mr. Jason Robinson

Undergraduate Students

Ms. Amber Highway
Ms. Amy Hannaford
Ms. Alison Howley
Mr. John Jeddore
Mr. Mitchell Kehoe
Ms. Sarah-Ann King
Mr. Robert Leamon
Mr. Ryan Murphy
Ms. Candace Simms
Mr. Michael Walsh

5.3 University Officers and Staff

Visitor

Hon. J.C. Crosbie, P.C., O.C., Q.C., B.A.(Hons.) *Queen's*, LL.B. *Dalhousie*, LL.D. *Dalhousie*, LL.D. *Memorial*; Lieutenant-Governor of Newfoundland and Labrador

Chancellor

General R.J. Hillier (Retired), O.C., CMM, MSC, CD, B.Sc. *Memorial*

Chairman of the Board of Regents

R.E. Simmonds, QC, B.Comm. *Memorial*, L.L.B. *Dalhousie*

President and Vice-Chancellor

G. Kachanoski, B.Sc.(Hons.), M.Sc. *Saskatchewan*, Ph.D. *California (Davis)*

President Emeritus

A.W. May, O.C., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *McGill*, DU *Ottawa*, D.Sc. *Memorial*, LL.D. *Brock*

Provost/Vice-President (Academic)/Pro Vice-Chancellor

D. Wardlaw, B.Sc., Ph.D. *Toronto*

Vice-President (Research)

C.W. Loomis, B.Sc.(Hons.), M.Sc., Ph.D. *Queen's*

Vice-President (Administration and Finance)

K. Decker, B.Comm.(Hons.) *Memorial*, C.A.

Vice-President (Grenfell Campus)

M.H. Bluechartd, B.P.H.E., M.Sc. *Lakehead*, Ph.D. *Toronto*

Vice-President (Marine Institute)

G. Blackwood, B.Sc.(Hons.), M.A. *Memorial*

Deputy Provost (Students) and Associate Vice-President (Academic) (Undergraduate Studies) Pro Tempore

R.J. Shea, B.A., B.S.W., M.Ed. *Memorial*, Ph.D. *Calgary*

Associate Vice-Presidents (Academic)

G.A. Gardner, B.Sc. *Guelph*, M.Sc., Ph.D. *British Columbia*
D. Neville, B.Sc. *Memorial*, M.Sc. *Toronto*, M.Sc., Sc.D. *Harvard*

Associate Vice-President (Research), Collaborations and Partnerships

R.G. Gosine, B.Eng. *Memorial*, Ph.D. *Cambridge*, FEC, P.Eng.

Associate Vice-President (Grenfell Campus) (Academic)

D. Peddle, B.A., M.A. *Memorial*, Ph.D. *Ottawa*

Associate Vice-President (Grenfell Campus) (Administration and Finance)

G. Bradshaw, B. Eng, M.B.A. *Memorial*

Associate Vice-President (Grenfell Campus) (Research)

A. Card, B. Ed (Hons) *DeMontfort*, M.A. (Ed.), Ed.D. *Southampton*

Associate Vice-President (Marine Institute), Academic and Student Affairs

P. Fisher, B.Sc., P.G.C.E., Ac.Dip.Ed. *London*, M.Ed. *Memorial*, Ph.D. *Leeds*

DEANS

Faculty of Arts

Dr. L. Rankin, Acting Dean, June 1, 2011 - June 30, 2012

Dr. L. Phillips, Dean, as of July 1, 2012

Dr. F. White, Associate Dean (Research and Graduate)

Faculty of Business Administration

Dr. W.J. Zerbe, Dean

Dr. L. Bauer, Associate Dean (Academic Programs)

Dr. J. Parsons, Associate Dean (Research) & Ph.D. Program Director

Faculty of Education

Dr. K. Anderson, Dean

Dr. K. Goodnough, Associate Dean (Undergraduate Programs)

Dr. T. Seifert, Associate Dean (Graduate Programs and Research)

Faculty of Engineering and Applied Science

Dr. R. Venkatesan, Dean, *pro tempore*, July 1, 2011 - July 31, 2012

Dr. G. Naterer, Dean, Faculty of Engineering and Applied Science,

as of August 1, 2012

Dr. B. Veitch, Associate Dean (Research)

Professor A. Fisher, Associate Dean (Undergraduate Studies)

Dr. L. Lye, Associate Dean (Graduate Studies)

Faculty of Medicine

Dr. J. Rourke, Dean

Dr. S. Peters, Vice-Dean

Dr. G. Farrell, Associate Dean for Undergraduate Medical Education

Dr. K. Mearow, Associate Dean for Basic Medical Sciences

Dr. P. Moody-Corbett, Associate Dean for Research and Graduate Studies (Medicine)

Dr. S. Muly, Associate Dean of Community Health and Humanities

Dr. P. Parfrey, Associate Dean for Clinical Research

Faculty of Science

Dr. M. Abrahams, Dean

Dr. A. Foster, Associate Dean (Administration and Undergraduate)

Dr. M. Courage, Associate Dean (Graduate and Research)

School of Graduate Studies

Dr. N. Golfman, Dean

Dr. F. Murrin, Associate Dean

School of Human Kinetics and Recreation

Dr. S. MacKinnon, Acting Dean

Dr. D. Behm, Associate Dean (Graduate Studies and Research)

School of Music

Dr. E. Waterman, Dean

Dr. M. Volk, Associate Dean

School of Nursing

Dr. J. McFetridge-Durdle, Dean

K. Webber, Associate Dean (Undergraduate Programs)

Dr. S.M. Solberg, Associate Dean (Graduate Programs and Research)

School of Pharmacy

Dr. L. Hensman, Dean

Dr. M. Daneshtalab, Associate Dean, Graduate Studies and Research

Dr. L. Phillips, Associate Dean, Undergraduate Studies

School of Social Work

Dr. A. Al-Krenawi, Dean

Dr. D. Hardy Cox, Associate Dean, Graduate Programs and Scholarship

J.E. Parsons, Associate Dean, Undergraduate Programs

DIRECTORS

Alumni Affairs and Development

Dr. P. Blackwood, Director

J. O'Neill, Associate Director, Development

L. Cadigan, Assistant Director

Animal Care Services

Dr. J. Keyte, Director

Centre for Institutional Analysis and Planning

P. Chancey, Director

Computing and Communications

G. Mowbray, Director

R. Campbell, Associate Director, Operations

B. Power, Associate Director, Research, Policy and Planning

Co-operative Education, Division of

Dr. P. Rans, Director

A. Raheja, Associate Director

Distance Education, Learning and Teaching Support

R. Wells, Acting Director

Engagement, Office of

R. Greenwood, Executive Director

Enterprise Risk Management

D. Head, Director

Facilities Management

D. Miles, Director

K. Hiscock, Assistant Director (Development and Renewal)
C. Whelan, Assistant Director (Operations and Maintenance)

Faculty Relations

M. Cooper, Director
A. Wyse, Associate Director

Financial and Administrative Services

D. Collis, Director
G. Pike, Associate Director

General Counsel

K. Hollett, General Counsel
G. French, Associate General Counsel

Harris Centre of Regional Policy and Development

R. Greenwood, Director

Health and Safety

S. Miller, Director
B. Battcock, Associate Director

Human Resources

S. Dodge, Director
M. Barron, Associate Director
V. Butler, Associate Director

Labrador Institute

Dr. K. Chaulk, Director
M. MacDonald, Associate Director

Lifelong Learning, Division of

K. Kennedy, Director

E.M. Healey, Assistant Director

Marketing and Communications, Division of

V. Collins, Executive Director
P. Morris, Director, Public Affairs
P. Dyke, Associate Director, Communications
C. Steeves, Associate Director, Marketing

Registrar, Office of the

G.W. Collins, University Registrar
S.M. Singleton, Deputy Registrar

Research Services, Office of

M. Rise, Director
C. Perchard, Associate Director

Student Recruitment

S. Perry-Maidment, Director
R. Preston, Associate Director

Technical Services

R. Meaney, Director

University Library

L.A. Busby, University Librarian
S. Manojlovich, Associate University Librarian (Information Technology)
L. McGillis, Associate University Librarian (Grenfell Campus)

6 Offices of the University

Fisheries and Marine Institute, Grenfell Campus, Special Divisions and members of Faculties and Schools are listed in the appropriate sections of the University Calendar.

6.1 Alumni Affairs and Development, Office of

www.munalum.ca

Director

Blackwood, P., B.Sc.(Hons.) *Memorial*, M.Sc., Ph.D. *Western Ontario*

Associate Director - Development

O'Neill, J.M., B.Mus. *Memorial*, M.Mus. *University of Calgary*

Assistant Director - Alumni Affairs

Cadigan, L., B.A., B.Comm. *Memorial*

Manager, Advancement Services and Operations

Williams, E.R., B.Ed., M.Ed. *Memorial*

Communications Co-ordinator, Managing Editor Luminus Magazine

Penney, D., B.A., B.Ed. *Memorial*, M.A. *Ryerson/York University*

The Office of Alumni Affairs and Development exists to foster connections between alumni and the University. In addition, the Office offers opportunities for alumni to connect with each other. The Office develops services and benefits, manages events, communicates University and alumni-related news and works with alumni and friends who are interested in giving to the University.

6.2 Computing and Communications, Department of

www.mun.ca/cc/

Director

Mowbray, G., B.Sc. *Memorial*

Associate Director, Client Relationships

Dawson, B., B.Sc.(Hons.), B.Ed., M.A.S. *Memorial*

Associate Director, Enterprise Application Services

Fillier-Skinner, P., B.Ed., M.Ed. *Memorial*

Associate Director, Operations

Campbell, R., B.Sc., M.Sc. *Memorial*

Associate Director, Research, Policy and Planning

Power, B.

Manager, Administration and Finance

Earles, D.

Manager, Communications

Farrell, T., B.Sc. *Memorial*

Manager, IT Security

Forward, K., B.Sc. *Memorial*

Manager, Personal Computing

Shaw, M., B.Sc., B.Ed. *Memorial*

Acting Manager, Technical Support

Stirling, A., B.Sc. *Memorial*

Assistant Manager, Mail and Print Services

Maloney, R., B.A. *Memorial*

Central Mail Room Supervisor

Predham, R.

The mandate of Computing and Communications (C&C) is to lead the Planning, Design, Building and Support of the Core Information and Communications Technologies required to meet the strategic objectives of Memorial University of Newfoundland. In consultation with the Campus community and under the guidance of the Information Management Committee, C&C is responsible to foster and support best practices in information technology infrastructure, security, data, software and processes to create an effective and integrated environment.

Core Information and Communications Technologies are those systems and services available to the entire campus or which are pan-university operational systems. Included are:

- Central mail services and logistics
- Landline and mobile telephony
- Technology (internal, external, public networks and data centres)
- Development, management and operation of enterprise applications
- Centralized email, web services, and collaborative tools
- Information Technology security management
- IT project management and consulting
- Service desk, IT purchasing and desktop support services
- Student computing (Portal, Information Commons, D2L, Labnet)

6.3 Co-operative Education, Division of

www.mun.ca/coop/home

Director

Rans, P., B.A.(Hons.) *East Anglia*, M.A. *Sheffield*, Ph.D., M.P.A. *Dalhousie*

Associate Director

Raheja, A., B.Eng. *Bangalore*, M.B.A. *Memorial*

Business Co-ordinators

Murphy, L.J., B.Admin. *RMC*, M.B.A. *Memorial*, *CHRP*
Noseworthy, S., B.A., B.Ed., M.B.A. *Memorial*
Raheja, V., B.Comm. *Madras*, M.B.A. *Memorial*, A.C.A.
Skanes, H., B.Comm. *Memorial*, M.B.A. *York*

Arts/Science Co-ordinator

Newhook, R., B.A. *Memorial*

Engineering and Applied Science Co-ordinators

Hudson, J.F., B.Eng. *McGill*, P.Eng.
Jin, G., B.Eng. *Memorial*
Myers, S., B.Eng. *Memorial*, M.A. *University of British Columbia*
Oldford, D.B., B.Sc. *Memorial*, B.Eng. *Dalhousie*
Raheja, A., B.Eng. *Bangalore*, M.B.A. *Memorial*, Associate Director
Smith, G., B.Eng., M.B.A. *Memorial*, P.Eng.
Sullivan, P., M.B.A. *Ottawa*
Tam, S., B.Eng., *Memorial*, M.B.A. *Queen's*
Wadden, N., B.Eng. *Memorial*

Human Kinetics and Recreation Co-ordinators

Downey, J.A., B.Sc., M.Sc. *Memorial*
Innes, G., B.A.(Hons.) *York*, M.A.L.S. *Wesleyan*

The Division of Co-operative Education is responsible for combining classroom education with practical work experience. The Division links the paid work terms the students experience with their chosen program of studies. A number of Memorial University of Newfoundland's co-op programs are accredited by the Canadian Association for Co-operative Education, the national body and accrediting agency for co-operative education in Canada. The accredited institution affirms that: (i) each work situation is developed and/or approved by the co-operative educational institution as a suitable learning situation; (ii) the co-operative student is engaged in productive full time work rather than merely observing; (iii) the co-operative student receives remuneration for the work performed; (iv) the co-operative student's progress on the job is monitored by the co-operative educational institution; (v) the co-operative student's performance on the job is supervised and evaluated by the student's co-operative employer; and (vi) the total co-operative work experience is at least thirty percent of the time spent in academic study. Co-operative education programs at this University are offered in a variety of degree programs organized through a centralized division. The goal of the Division of Co-operative Education is to fuse academic knowledge with practical experience, creating highly qualified and knowledgeable professionals prepared to meet the demands of today's workforce.

6.4 Engagement, Office of

www.mun.ca/engagement

Executive Director

Greenwood, R., B.A. (Hons.) *Memorial*, M.A. *York*, Ph.D. *Warwick*

Engagement Framework Development Coordinator

Reid-Shute, K., B.A. *Dalhousie*, L.L.B. *New Brunswick*

The Office of Engagement reports to the President, and is tasked with supporting Memorial University of Newfoundland's engagement activities both inside the Province, and globally. 'Engagement' can be broadly understood as mutually beneficial partnerships between people in the University and people outside the University that bring together the expertise and capacity of all contributing parties to address opportunities and needs. The Office is overseeing the development and implementation of *The Engagement Framework*, a document that will guide the University's engagement activities. *The Engagement Framework*, will be based on input gathered from university and community stakeholders alike, and will complement the existing *Research* and *The Teaching & Learning Frameworks*. There are many diverse approaches to engagement, which will be discussed throughout the development of the Engagement Framework to ensure that Memorial University of Newfoundland adopts an approach to engagement that will best serve the University and its partners.

Further information can be obtained by contacting the Office of Engagement by telephone at (709) 864-8405, or by email at engagement@mun.ca, or through the website at www.mun.ca/engagement.

6.5 Enterprise Risk Management

www.mun.ca/erm/home/

Director

Head, D., B.Comm. (Co-op), M.B.A. *Memorial*

Risk Analyst

Tucker, R.

Internal Audit Project Manager

Royle, D., B.Comm. *Memorial*, CMA, CFP

Internal Auditor

Howlett, B., B.Comm. *Memorial*, CA

The function of Enterprise Risk Management is to take a leading role working with all areas of the University, including the Marine Institute, Grenfell Campus, Harlow campus and the Separately Incorporated Entities to identify, assess and develop risk response strategies with respect to the University's ability to achieve its strategic and operational goals. Enterprise Risk Management's role is wide-ranging, encompassing the internal audit function, insurance and liability in addition to an extensive array of risk issues.

6.6 Facilities Management, Department of

www.mun.ca/facman/about/

Director

Miles, D., P.Eng.

Assistant Director (Capital Projects)

Hiscock, K., P.Eng.

Assistant Director (Development and Renewal)

vacant

Assistant Director (Operations and Maintenance)

Whelan, C.

Manager of Administrative Services

vacant

Manager, Building Services and Grounds

Walsh, R.

Manager of Campus Enforcement and Patrol

Browne, J.

Manager, Central Utilities

Sheehan, J.

Manager of Custodial Services

Budden, K.

Manager, Energy Systems and Controls

Peach, D.

Manager, Engineering & Development

Daniels, J., P. Eng., M.A.Sc., P.M.P.

Manager, Space Planning & Administration

Michalak, M.

Manager, Work Control Center

Marshall, T.

The founders of Memorial University of Newfoundland dedicated the University itself as a living memorial to those who served in the two world wars. Guided by this heritage and mission, the Department of Facilities Management embraces its responsibility to maintain,

protect, and further develop the University's major infrastructure. The Department's team is committed to the pursuit of excellence in all of its operations including facilities engineering and development, central utilities, energy systems and controls, custodial services, building services and grounds, campus enforcement and patrol, sustainability, administrative services and space planning and administration.

6.7 Faculty Relations, Office of

www.mun.ca/facultyrelations/index.php

Director of Faculty Relations

Cooper, M., B.Comm.(Hons.) *Memorial*, M.I.R. *University of Toronto*, LL.B. *Dalhousie*

Associate Director of Faculty Relations

Wyse, A., B.A.(Hons.), M.A. *Memorial*, M.P.A. *University of Western Ontario*

Assistant Director of Faculty Relations

McKinnon, I., B.Comm.(Co-op), *MER Memorial*

Manager of Academic Recruitment & Support

Pittman, T., B.A., M.B.A. *Memorial*

Faculty Relations Analyst

Kielly, T., B.A. *Memorial*

The Office of Faculty Relations is responsible for the negotiation and administration of the following collective agreements for faculty, per course instructors, and teaching assistants:

1. Memorial University of Newfoundland and Memorial University of Newfoundland Faculty Association (MUNFA), February 26, 2010 - August 31, 2013.
2. Memorial University of Newfoundland and Lecturers' Union of Memorial University of Newfoundland (LUMUN), February 5, 2009 - August 31, 2012.
3. Memorial University of Newfoundland and Teaching Assistants' Union of Memorial University of Newfoundland (TAUMUN), July 8, 2010 - August 31, 2013.

As well, the Office of Faculty Relations addresses labour relations matters arising out of the collective bargaining relationships with MUNFA, LUMUN, and TAUMUN, including grievance and arbitration proceedings and Labour Relations Board matters. In addition, the Office of Faculty Relations:

1. is involved in all aspects of the employment of academic staff. The Office makes per course, extra teaching, and contractual academic appointments less than one year;
2. sets the starting salaries of all academic personnel, and determines eligibility for leaves;
3. provides advice, assistance, and education in all matters involving faculty, including the recruitment process, promotion and tenure, discipline, sabbatical, and administrative leave eligibility, and all collective agreement matters;
4. provides immigration assistance and advice for arriving faculty and staff, orientation opportunities for new faculty, and provides educational opportunities for academic administrators; and
5. is involved in policy development, implementation and administration.

6.8 Financial and Administrative Services, Department of

www.mun.ca/finance/Welcome/

Director

Collis, D., B.Comm. *Memorial*, C.A.

Associate Director

Pike, G., B.Comm.(Hons.) *Memorial*, CMA

Associate Director, Budgets

Pike, L., B.Comm., M.B.A. *Memorial*

Manager, Financial Systems

Hillyard, B., B.Sc., M.B.A. *Memorial*

Manager, Financial Reporting & Analysis

Whelan, H., B.Comm. *Memorial*, CA

Financial Analyst

Mooney, P.

Manager, Printing Services

Cranford, B.

Manager, Research Accounting Office

Rose, S.

Staff Accountant - Travel and Disbursements

Clancey, P.

Senior Staff Accountant - Cashier's Office

Hanson, G.

Staff Accountant - Accounts Payable

Noseworthy, L.

General Office Supervisor, Science Building

Hicks, M.

General Office Supervisor, Education Building

Lono, C.

The Department of Financial and Administrative Services oversees the financial and budgetary operation of Memorial University of Newfoundland. The Department consists of 70+ employees providing quality services in the areas of Administration, Disbursements, Accounts Payable, Customs, Tendering, Research Accounting, Cashier's Office, Financial Systems, Financial Reporting and Analysis, Budgeting, Printing Services and the operation of two General Offices located in the Education Building and the Science Building.

6.9 General Counsel, Office ofwww.mun.ca/generalcounsel/index.php**General Counsel**Hollett, K., B.A. *Memorial*, LL.B. *Dalhousie*, LL.M. *Osgoode***Associate General Counsel**French, G., B.Comm. (Hons.)(Co-op) *Dalhousie*, LL.B. *New Brunswick*, LL.M. *Toronto***Associate General Counsel - Research**Forbes, C., B.A.(Hons.) *Mount Allison*, M.A. *Acadia*, LL.B. *Dalhousie*

The Office of the General Counsel provides legal and strategic advice to the University, the senior administration, and the Board of Regents; provides education initiatives on legal matters affecting the University; and works with the University on the development of policies and procedures to ensure legal compliance and best practices.

6.10 Health and Safety, Department ofwww.mun.ca/health_safety/**Director**Miller, S., B.N. *Memorial*, MScA *McGill*, CRSP, COHN©**Associate Director**

Battcock, B

Health and Safety Advisor (Boating/Diving)

MacLaggan, T.

Health and Safety Advisors (Contractor Safety)Gosse, D.
Greene, J.**Health and Safety Advisor (Ergonomics)**Bradbury, E., B.Kin.(Hons.), M.Sc.Kin. *Memorial***Health and Safety Advisor (Fire Safety)**

St. Croix, P.

Health and Safety Advisor (Quality Management)Lamb, T., B.A. (Hons.) *University of Huddersfield*, M.Sc. *Portsmouth University***Industrial Hygienist**Giles Murphy, T., M.Sc. *Memorial*, MHSc. *Toronto***Project Manager**McLoughlin, A., B.B.A., B.Sc. *Memorial***Radiation Safety/Bio-safety Officers**Hobbs, R., M.Sc. *Memorial*
Woods, D., B.Sc. *Mississippi State*, NFPA 472-Specialist

The Department of Health and Safety provides leadership for the planning, directing and management of Memorial University of Newfoundland's Health and Safety Program. In meeting the University's goal of providing a safe and healthy environment which supports teaching, research and University life, the Department provides expert advice to the University community on health and safety matters. The Department monitors the University's health and safety performance to identify opportunities for continued improvement. It oversees the delivery of training programs which meet regulatory requirements and which provide members of the University with the information and skills needed to carry out their work and studies safely.

6.11 Human Resources, Department ofwww.mun.ca/humanres/about/**Director**Dodge, S., B.Comm. *Memorial***Associate Directors**Barron, M., B.Comm. *Memorial*, M.I.R. *Toronto*
Butler, V., B.S.W. *Memorial*, M.P.A. *Queen's***Acting Manager - Advisory Services**Norman, J., B.B.A. *St. Francis Xavier*, CHRP**Manager - Administration and Systems Integration**

Mullett, B.

Manager - Benefits and PensionsRoberts, G., B.Sc. *Memorial*

Acting Manager - Employee Relations

Squires, T., B.A. *Memorial*

Manager - Finance and Payroll

Hatcher, C.

Manager - Human Resources (Medicine)

Wooley, E., B.Comm., M.E.R. *Memorial*

Manager - Organizational Development

Barker, R., B.Comm. *Memorial*, M.B.A. *Virginia Polytechnic Institute & State University*, CHRP

Manager - Recruitment

vacant

Communications Co-ordinator

O'Dea Dawson, S., B.A., B.Comm. B.Ed. *Memorial*

The Department of Human Resources is more than payroll, pensions and benefits. The Department of Human Resources provides the foundation to advance and maintain a strong institutional culture that values the contributions of all within the organization. This culture is based on clear values that are accepted and put into practice by all: the principles of respect, recognition, support, equity and fairness, effective leadership, recruitment and retention, learning and development, work-life balance (including health and wellness) and career opportunity. Human Resources works to provide optimal service delivery to clients and ensure best practices in internal processes through measurement. Through a long-term strategy in Human Resources, Memorial University of Newfoundland continues to implement the people development strategy (mentoring, succession, coaching, leadership and career development), transfer knowledge to new employees, meet employment equity targets, improve employee satisfaction, and enhance connections prior to and into retirement. Complete details and contact information is available at www.mun.ca/humanres/about.

6.12 Information Access and Privacy Protection Office (IAPP)

www.mun.ca/iapp/home/

Co-ordinator

Thorne, R., CIPP/C

Privacy Analyst

Keough, T.M., M.Sc. *Memorial*

ATIPP Analyst

Whelan, J., B.A. *Memorial*, LL.B. *University of New Brunswick*

The Information Access and Privacy Protection Office (IAPP) was created in November 2005 to assist the University in complying with the provincial Access to Information and Protection of Privacy Act (ATIPPA) and other applicable privacy legislation, as well as developing best practices in information access and privacy protection matters.

The IAPP Office benefits from the guidance of the IAPP Advisory Committee. The IAPP Advisory Committee provides strategic direction and general guidance to the IAPP Office. Using guidelines, policy, procedures and standards approved by the IAPP Advisory Committee, the IAPP Office implements best practices in information access and privacy protection in compliance with the ATIPPA Act and other pertinent privacy protection legislation.

6.13 Institutional Analysis and Planning, Centre for (CIAP)

www.mun.ca/ciap/

Director

Chancey, P.F., B.Sc., B.Comm., M.Ed. *Memorial*

Senior Institutional Analysts

Leake, R.M., B.B.A.(Hons.), M.B.A. *Memorial*, C.G.A.

Pippy, S.E., B.Sc.(Hons.), M.Sc. *Memorial*

Senior Planning Analyst

Myrick, K.A., B.Comm., M.B.A. *Memorial*, M.A. *University of Windsor*

The Centre for Institutional Analysis and Planning (CIAP) is responsible for the collection, analysis and dissemination of information and facilitation of decision-support and planning initiatives at Memorial University of Newfoundland.

6.14 Marketing and Communications, Division of

www.mun.ca/marcomm/home/

Executive Director

Collins, V., B.A. *Memorial*

Director, Public Affairs

Morris, P., B.A. *Memorial*

Manager of Finance and Administration

Kelly, H.

Associate Director (Marketing)

Steeves, C., B.Comm. *Memorial*

Associate Director (Communications)

Dyke, P., B.J. (Hons.) *University of King's College*

Editor, Communications

Sorensen, D., B.A.(Hons.), M.A. *Memorial*

Communications Co-ordinator (Alumni Affairs and Development)Penney, D., B.A., B.Ed. *Memorial*, M.A. *Ryerson/York***Communications Co-ordinator (Arts)**Harron, J., B.A. *Toronto***Communications Co-ordinator (Business)**

vacant

Communications Co-ordinator (Campaign)Barron-McDowell, L., B.A. *Memorial***Communications Co-ordinator (DELTS)**Alcock, C., B.A. *Memorial*, B.P.R. *Mt. St. Vincent***Communications Co-ordinator (Engineering)**Locke, J., B.A. *Memorial***Communications Co-ordinator (Executive)**Porter, M., B.S. *King's College*, B.A. *Mount Allison***Communications Co-ordinator (Grenfell Campus)**Gill, P., B.A. *Memorial*, B.J. *King's College***Communications Co-ordinator (Harris Centre)**Cohoe, R., B.A. *Western Ontario*, M.A. *Memorial***Communications Co-ordinator (Health Sciences)**Gray, S., B.A.(Ed.) *Memorial***Communications Co-ordinator (Human Resources)**O'Dea Dawson, S., B.Ed., B.Comm.(Co-op), B.A. *Memorial***Communications Co-ordinator (Marketing and Communications)**Cook, M., B.A. *Memorial*, B.J. *King's College***Communications Co-ordinator (Medicine)**Middleton, V., B.A. *Memorial***Communications Co-ordinator (Nursing)/HKR**Osmond, M., B.J. *King's College*, B.A. *Dalhousie***Communications Co-ordinator (Pharmacy)**

Deon, J.

Communications Co-ordinator (Recruitment)Hunt, J., Dip. Corporate Comm. *Sheridan College*, B.A. *Memorial***Communications Co-ordinator (Vice-President) Research**Whelan, M., B.P.R. *Mt. St. Vincent***Communications Co-ordinator (Science)**Foss, K., B.J. *King's College***Communications Co-ordinator (Social Work)**Woodford, L., B.A. *Memorial***Communications Co-ordinator (Student Affairs and Services)**Ash, G., B.B.A. *Memorial***Communications Co-ordinator (Teaching and Learning Framework)**Wicks, H., B.A. *Memorial***Manager, Image Services**

Mackinnon, J.

Manager, Web Content ServicesWhittle, P., B.Comm., B.A.(Hons.), M.A. *Memorial***Marketing Manager**Hulan, J., B.A. *Memorial*

The Division of Marketing and Communications is Memorial University of Newfoundland's public relations and communications centre. The Division is dedicated to serving the University's internal and external communications needs, as well as to responding to the community's needs for information about Memorial University of Newfoundland. The Division provides general information about Memorial University of Newfoundland, communications counsel and planning, news services including the *Gazette*, *today.mun.ca* and *Studio 1024*, the University's weekly news podcast, as well as media relations and issues management (including crisis communications coordination). The Division also has expertise in institutional marketing, university event management (including Convocation), photography (including a university photo bank), graphic design, co-ordination of promotional projects, institutional web management and web content development. The Division can provide advice on protocol, government relations, issues management, special event planning, and marketing planning.

6.15 President, Office of the

www.mun.ca/president/

President and Vice-Chancellor

Kachanoski, G., B.Sc.(Hons.), M.Sc. *Saskatchewan*, Ph.D. *California (Davis)*

Executive Director

Brown, M., M.B.A. *Royal Roads*

Archivist/Historian

Baker, M., B.A.(Hons.), M.A. *Memorial*, Ph.D. *Western*

The Office of the President undertakes the management and administration of the University as directed by the Board of Regents. The President provides leadership and overall strategic direction for both the academic and business affairs of the University.

6.16 Provost/Vice-President (Academic)/Pro Vice-Chancellor, Office of the

www.mun.ca/vpacademic/

Provost/Vice-President (Academic)/Pro Vice-Chancellor

Wardlaw, D., B.Sc., Ph.D. *Toronto*

Deputy Provost (Students) and Associate Vice-President (Academic) (Undergraduate Studies) Pro Tempore

Shea, R.J., B.A., B.S.W., M.Ed. *Memorial*, Ph.D. *Calgary*

Associate Vice-President (Academic)

Gardner, G.A., B.Sc. *Guelph*, M.Sc., Ph.D. *British Columbia*

Associate Vice-President (Academic) Faculty Affairs

Vacant

Associate Vice President (Academic) Planning, Priorities and Programs

Neville, D., B.N. *Memorial*, M.Sc.N. *Toronto*, S.M., Sc.D. *Harvard*

Director of Academic Support Services

Millan, R., B.Voc.Ed. *Memorial*

The Office of the Provost and Vice-President (Academic) has primary responsibility for academic matters, ultimately being responsible for the programs of some 18,000 undergraduate and graduate students across a wide range of disciplines. The Provost and Vice-President (Academic) reports directly to the President and works in close collaboration with the other Vice-Presidents, Deans and other members of the senior management team of the University.

6.17 Queen's College (Affiliated Institution)

www.mun.ca/queens/

Administration

Provost

Morgan, The Rev'd Canon Dr. B.

Administrative Assistant

Foley, S.

Faculty

Dinn, The Ven. J., B.A.(Hons.) *Memorial*, M.Div. *Queen's*, S.T.M. *Nashoda*; Anglican Studies

Doyle, C., B.A.(Ed.) *Memorial*, M.R.E. *St. Michael's*, D.Min. *St. Andrews*; Christian Education, Spirituality, Supervised Practice of Ministry

Drinkell, D., B.A. *Bristol*, Cert. Ed. *Cambridge*, F.R.C.O. (CHM), A.D.C.M., A.R.C.M.; Church Music, Choir Director

Hodder, M., B.A. *McGill*, B.A. *Memorial*, Cert. Dramatic Arts *Royal Academy*, M.Ed. S. *Mississippi*, M.A. *Toronto*; Elocution

Mercer, The Rev'd J., B.A. *Memorial*, M.Div.(Hons.) *Queen's*, M.Th. *Edinburgh*, Ph.D. *Wales*; Homiletics, Field Education

Morgan, The Rev'd Canon B., B.A. *Memorial*, M.Div. *Queen's*, M.A. *McGill*, Th.D. *Boston*; Liturgical Studies

Peddle, The Ven. G., B.A., M.A. *Memorial*, M.Div. *Queen's*; Parish Administration

Rollmann, H., B.A. *Pepperdine*, M.A. *Vanderbilt*, Ph.D. *McMaster*; Church History

Singleton, R., B.A. *Memorial*, M.Div. *King's, W.Ont.*, D.Min. *Graduate Theological Foundation, Indiana*; Pastoral Theology

Whelan, C., B.A.(Hons.) *Memorial*, M.A. *Windsor*; Biblical Studies

Whitty, The Rev'd G., M.A. *Notre Dame*, M.A.(Ed.) *Boston College*, D.Min. *Chicago*

Information regarding Queen's College may be found at **General Information, Queen's College**.

6.18 Registrar, Office of the

www.mun.ca/regoff/home/

University Registrar

Collins, G.W., B.Sc., B.Ed., M.Sc. *Memorial*

Deputy Registrar

Singleton, S.M., B.Sc. *Memorial*, M.Sc. *Queen's*

Assistant Registrar/Systems Manager

Baggs, R., B.Sc. *Memorial*

Assistant Registrar

Boone, T., B.Sc. *Memorial*

Assistant Registrar

Bruce, R., B.Ed.(Primary), B.Sp.Ed., M.Ed. *Memorial*

Assistant Registrar

Burry, J., B.Sc. *Memorial*

Assistant Registrar

Byrne, I.J., B.A. *North Carolina*, M.A. *Memorial*

Assistant Registrar

Hillman, M.E., B.A.(Hons.) *Memorial*, M.A. *Toronto*

Assistant Registrar

Honeygold, M., B.A., B.Comm., M.Ed. *Memorial*

Assistant Registrar/Graduation Manager

McCann, P., B.A., B.Ed. *Memorial*

Assistant Registrar/Admissions Manager

Murray, M., B.Comm. *Memorial*

Assistant Registrar/Enrolment Services Manager

Porter, J.M., B.Comm.(Co-op)(Hons.) *Memorial*, M.B.A. *York*

Assistant Registrar

Puxley, M.J., B.A. *Memorial*

Manager, Administration and Finance

Thorne, L., B.Comm. *Memorial*

Assistant Registrar

Walsh, L., B.A., B.Ed.(Secondary) *Memorial*

The Office of the Registrar provides academic support services and systems to prospective and current students - from initial contact, to application, academic advising, registration, and graduation - and strives to implement continuous improvements to these services and systems. Together with offices at Grenfell Campus and the Marine Institute, the Office of the Registrar serves the University community, including those involved in distance learning.

The Office of the Registrar's current mission and vision is to: encourage and facilitate the transition from potential applicant to registered student to graduate; develop and implement strategies designed to enhance student success; serve as a catalyst in formulating and implementing academic regulations, policies and procedures and provide accurate and timely information and advice about these to the academic community and the general public; provide innovative and technologically advanced information systems to facilitate the most effective and efficient delivery of services; and respond to change and commit to improving the quality of our services within the context of the themes outlined in the *University's Strategic Framework*. In carrying out this mission, the Office strives to be sensitive to the needs of students, faculty, staff, co-workers, and the general public, and to treat each individual with fairness, respect and understanding. Responsibility for the Secretariat for Senate and for several major Senate and Faculty Committees also rests with this Office.

6.18.1 Academic Advising Centre

www.mun.ca/advice/aac/

Manager

Green, J., B.A., M.Ed. *Memorial*

Academic Advisor/Co-ordinator, University Liaison

Donovan, M., B.Sc.(Hons.) *Memorial*, LL.B. *Osgoode Hall*

Academic Advisor/Co-ordinator, University Liaison

Knight, K., B.Comm. *Memorial*

Academic Advisor/Co-ordinator, University Liaison

O'Neill, R., B.A., B.Ed. *Memorial*

The Academic Advising Centre (AAC) assists students who are at various stages of their academic careers. Whether students are undecided about which program of study they wish to pursue, uncertain of their academic goals, seek assistance with their course curriculum, are thinking about exploring new academic opportunities, or face potential academic prejudice, the AAC furnishes them with sound, accurate academic advice.

6.19 Research Services, Office of

www.mun.ca/research/overview/

Director

Rise, M., B.Sc.(Hons.), M.Sc. *St. Francis Xavier University*, Ph.D. *University of Victoria*

Associate Director

Perchard, C., B.Comm. *Memorial*

Manager (Contracts)

Peach, J.

Manager (Grants)

Barnes, D.

ICEHR Office

Mercer, S.

Grants Facilitator

Heath, T.

The Office of Research Services is responsible for the administration, facilitation, and recording of scholarly research carried out by individual researchers as well as teams of researchers at Memorial University of Newfoundland. It is the institutional approval point for research funding applications as well as for grant funding agreements, research contracts and other formal agreements required in the conduct of research throughout the institution, the value of which currently amounts to approximately \$97 million annually. The Office carries out a facilitative role with a wide range of research funding agencies and organizations locally, nationally and internationally with particular focus on Canada's three national granting councils – the Canadian Institutes of Health Research, the Natural Sciences and Engineering Research Council of Canada, and the Social Sciences and Humanities Research Council of Canada.

6.20 Sexual Harassment Officewww.mun.ca/sexualharassment/home/**Sexual Harassment Advisor**Morris, C., B.Ed., B.S.W. *Memorial*, R.S.W.

The Sexual Harassment Office implements the *University-Wide Procedures for Sexual Harassment Concerns and Complaints* aimed at providing a method for the resolution of sexual harassment concerns and complaints which may arise at Memorial University of Newfoundland. The Sexual Harassment Policy prohibits sexual harassment by any member of the University community. Any member may address a concern or make a complaint of sexual harassment against another member of the University community. Memorial University of Newfoundland is committed to providing an environment that is respectful and inclusive – thus free of sexual harassment. The services of the Sexual Harassment Office are available to all campuses of Memorial University of Newfoundland. A copy of the *University-Wide Procedures for Sexual Harassment Concerns and Complaints* is available at www.mun.ca/policy/site/category.php.

6.21 Student Affairs and Services, Office ofwww.mun.ca/student/home**Deputy Provost (Students) and Associate Vice-President (Academic) Undergraduate Studies Pro Tempore**Shea, R.J., B.A., B.S.W., M.Ed. *Memorial*, Ph.D. *Calgary***Director, Finance and Operations**

Rose, W.

6.21.1 Career Development and Experiential Learning (CDEL)www.mun.ca/cdel/career**Director**Browne, J., B.A., M.Ed. *Memorial***Finance and Administration**Aspell, K., B.Comm.(Co-op), M.B.A. *Memorial***Career/IT Specialist**Shukla, N., B.B.A., M.B.A. *Memorial***Manager, Career Development**Strickland, P., B.Comm.(Co-op) *Memorial*, M.Ed. *Toronto***Employment Development Co-ordinators**Hagerty, B., B.A. *Memorial*Poirier, P., B.A., B.B.A. *Memorial***International Student Career Advisor**Walsh, L., B.A., M.Ed. *Memorial***Career Development Co-ordinator, Faculty of Arts**Reynolds, D., B.A., B.Ed., M.A. *Memorial***Career Development Coordinator, Faculty of Science**Hartery, S., B.A., B.Ed. *Memorial***Senior Career Development Co-ordinator (Graduate Studies)**White, J., B.Sc., M.B.A. *Memorial***Graduate Recruitment Co-ordinator**Verge, A., B.A. *Memorial***Manager, Experiential Learning**Russell, L., B.A.(Hons.) *Memorial*, M.A. *Dalhousie***Co-operative Education Service Co-ordinator**Hounsell, C., B.Comm.(Co-op), DIT, M.E.R. *Memorial***SWASP Co-ordinator**Wall, K., B.Ed. *Memorial***Experiential Learning Co-ordinator**Cofield, P., B.Sc., M.Ed. *Memorial***Go Abroad Co-ordinator**

vacant

Programmer ConsultantWalsh, W., B.Sc. *Memorial***6.21.2 Chaplaincy**www.mun.ca/ministries/**Anglican Chaplain**Whalen, The Rev'd R., B.Mus. *Memorial*, M.Div. *Wycliffe, Toronto***Pentecostal Chaplain**Newman, The Rev'd D., B.A. *Memorial*, B.Th. EPBC, M.A.(Cand.) *Memorial***Salvation Army Chaplain**Barter, V., B.A. *Memorial***United Chaplain**Jones-Fitzgerald, P., B.Ed., M.Div. *Memorial***Roman Catholic Chaplains**

Yetman, N.

6.21.3 Counsellingwww.mun.ca/counselling/home/**Associate Professor and Director**Cornish, P., B.Sc. *Trent University*, M.A., Ph.D. *Saskatchewan*, Cross appointments with Faculty of Medicine and Department of Psychology (on leave)**Professor, Training Director and Acting Director**Hurley, G., B.A. *Colorado College*, M.S., Ph.D. *Missouri-Columbia*, Cross appointments with Faculty of Medicine and Department of Psychology**Administrative Assistant**

Yetman, W.

Associate Professor and Associate Training DirectorDoyle, M., B.Sc.(Hons.) *Memorial*, M.Ed., Ed.D. *Toronto***Associate Professors**Garland, J. C., B.A. *Minnesota*, M.A., Ph.D. TX *Christian U.*Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*; Joint appointment with Counselling and Faculty of Medicine; Cross appointment with Department of Psychology**Assistant Professors**Dicks, L., B.Sc. *Memorial*, Ph.D. *Carleton University*Neary, M., B.Sc. *Memorial*, M.Ed., Ph.D. *McGill*Whelan, B., B.A. *Carleton*, M.A. *Lesley*, Ph.D. *Reading*Younghusband, L., B.Voc.Ed., M.Ed., Ph.D. *Memorial***Learning Specialist**Marshall, L., B.Sc., M.Ed. *Memorial***Cross Appointments with Counselling**Bethune, C., M.D., F.C.F.P. *McMaster*, Professor, Family MedicineBirnie-Lefcovitch, S., B.A. *Sir George Williams*, M.S.W. *McGill*, Ph.D. *Wilfrid Laurier*, Associate Professor, School of Social WorkCallanan, T. S., B.Sc., M.D. *Memorial*, Dip. Psych. *McGill*, FRCP, Associate Professor and Chair of Psychiatry, Faculty of MedicineHarris, G.E., B.A.(Hons.) *St. Mary's*, M.Sc. *Calgary***Adjunct Appointments**Newman, K., B.A.(Hons.) *Bishops*, M.A. *Brock*, Ph.D. *New Brunswick*Pardy, S., M.A., Ph.D. *Queens***6.21.4 Glenn Roy Blundon Centre for Students with Disabilities**www.mun.ca/blundonNorth, R., B.Voc.Ed., M.Ed. *Memorial*Skinner, K., B.A. *Memorial***6.21.5 Housing, Food and Conference Services**www.mun.ca/hfcs**Director**Burke, C., B.Comm., M.B.A. *Memorial***Assistant Director - Operations**Parsons, N., B.Sc., B.Ed., M.Ed., M.B.A. *Memorial***Manager, Residence Life**Rowsell, L., B.A., B.Ed., M.Ed. *Memorial***Manager of Accommodations**

Blackwood, R.

Manager, Conference Services

Garnier, M., M.Sc. *St. Francis Xavier University*

6.21.6 International Student Advising

www.mun.ca/isa

Manager, International Student Advising

Knutson, S., B.Ed. *Concordia*, M.Ed. *Memorial*

International Student Advisors

Alsafar, T., B.A.(Hons.) *University of Western Ontario*

Byrne, R., B.Comm., B.A. *Memorial*

Clark, N., B.B.A. *Memorial*

Collett, Y., B.Comm. *Memorial*

Hennessey, J., B.Sc. *Memorial*

International Career Advisor

Walsh, L., B.A. *Memorial*

6.21.7 Student Health Centre

www.mun.ca/health

Director

Lee, N.J., MD, CCFP *Memorial*

Nurse

Power, M., R.N., B.N.

6.21.8 Student Success Programs

www.mun.ca/student

Director

Brophy, T., B.A., B.Ed., M.Ed. *Memorial*

Manager, Answers

Boyde, T., B.Ed., M.Ed. *Memorial*

Student Life Programs Liaison

Mitchell, M., B.A. *Memorial*

Student Leadership Coordinator

Cook, S., B.A. *Ryerson*

Co-ordinator, Campus Card Program

Griffin, T., B.B.A. *Memorial*

Manager, Scholarships, Bursaries and Awards

Casey, J., BA, B.Ed. *Memorial*

Coordinator, Undergraduate Scholarships and Awards

McGrath, A., B.A.A. *Ryerson*, B.Ed., M.Ed. *Memorial*

International Student Coordinator (Scholarships)

Foote, M., B.A. *Memorial*, M.A. *University of Limerick*

Coordinator, Aboriginal Resource Office

Freake, S., B.Ed. *Memorial*

Aboriginal Liaison Officer

Pilgrim, V., B.A., M.A. *Memorial*

6.21.9 University Bookstore

www.bookstore.mun.ca

Manager

Kelly, L., B.Ed., B.A. *Memorial*

Textbook Buyer

Evans, D.

General Merchandise

O'Grady, D., B.A. *Memorial*

Information regarding Student Affairs and Services may be found at **General Information, Student Affairs and Services**.

6.21.10 Wellness Education

www.mun.ca/wellness/about

Wellness Educator

Neville, K.A., B.Sc. *University of Maine, MN Memorial*, Wellness Programs

6.22 Student Recruitment, Office of

www.mun.ca/become

Director

Perry-Maidment, S., B.A., B.Ed., M.Ed. *Memorial*

Associate Director

Preston, R., B.Comm.(Hons.), M.B.A. *Memorial*

Manager of Domestic Student Recruitment

Kawaja, S., M.A. *Memorial*

Communications Co-ordinator (Recruitment)

Hunt, J., B.A. *Memorial*

Administrative Assistant

Dwyer, R.

Created in 1996, the Office of Student Recruitment's primary goal is to recruit undergraduate students to Memorial University of Newfoundland. Each year, the recruitment team completes a wide range of recruitment activities including high school visits, career fairs and information sessions. The Office of Student Recruitment also implements the University's campus tour program. Through the development of a number of promotional materials and its website, the Office of Student Recruitment provides a wealth of information and advice to prospective undergraduate students.

6.23 Technical Services, Department of

www.mun.ca/ts/

Director

Meaney, R., B.Eng., M.Eng., *Memorial*, P.Eng.

Executive Assistant

Fagan, S., B.Comm. *Memorial*

Mechanical Division Manager

Cramm, D., B.Eng. *TUNS*, P.Eng.

Machine Shop Supervisor - Sciences, Mechanical Division

Sooley, S.

Machine Shop Supervisor - Engineering, Mechanical Division

Snook, D.

Welding/Sheetmetal Shop Supervisor, Mechanical Division

Bidgood, W.

Glassblowing Supervisor, Mechanical Division

Power, B.

Model Fabrication Supervisor, Mechanical Division

Murphy, R.

Electronics Division Manager

Pope, B.

Electronics Shop Supervisor - Engineering, Electronics Division

Maloney, W.

Electronics Shop Supervisor - Sciences, Electronics Division

Snook, C.

Instrument Shop Supervisor, Electronics Division

Oldford, M.

Computers and Data Communications Supervisor, Electronics Division

O'Leary, B.

Machine Shop Supervisor, Biomedical Division

Connors, C.

Supply Supervisor

Brazil, B.

The Department of Technical Services offers a wide range of biomedical, electronics and mechanical services to our users within Memorial University of Newfoundland and the health care community. These services range from electronics, biomedical, machining, glassblowing, welding, sheet metal, computer repairs, refrigeration, instrument repairs and scale model making. The Department provides expert advice and service to faculty, students, and researchers. It assists with the development of custom research apparatus and provides ongoing service for state-of-the-art devices, as well as repairs to older research equipment.

6.24 University Library

www.library.mun.ca/qeii/index.php

University Librarian

Busby, L.A., B.A.(Hons.) *Queen's*, M.L.S. *Western*

Associate University Librarian (Information Technology)

Manojlovich, S., B.A.(Hons.) *McMaster*, M.L.S. *Western*

6.24.1 Dr. C.R. Barrett Library

www.library.mun.ca/mi/index.php

Lawton, C., B.N., M.L.I.S. *Dalhousie*, Public Services Librarian

White, L., B.A. *Memorial*, M.L.S. *Dalhousie*, Associate University Librarian

6.24.2 Queen Elizabeth II Library

www.library.mun.ca/qeii/index.php

Adcock, L., B.Soc.(Hons.) *Ottawa*, M.L.I.S. *Western*, Head, Information Services

Alcock, E., B.Sc.(Hons.), M.Sc. *Memorial*, M.L.I.S. *Western*, Information Services & Collection Development

Bail, J., B.A. *Mills College*, M.L.I.S. *Pratt Institute*, Juris Doctor *Brooklyn Law School*, Information Services and Collection Development

Balsara, A., B.A. *Toronto*, M.L.S. *British Columbia*, Information Services

Browne, E., B.A. *Memorial*, M.L.S. *Dalhousie*, Bibliographic Control Services

Cleyle, S.E., B.A. *Mount Allison*, M.L.I.S. *Dalhousie*, Associate University Librarian

Dennis, C., B.A. *Guelph*, M.L.S. *Western*, M.A. *Memorial*, Head, Collection Development

Duda, D., B.A., M.L.S. *Alberta*, Information Services

Ellis, R.H., B.A. *San Francisco State*, M.Lib. *U. Washington*, Honorary Research Librarian, Librarian Emeritus

Field, C., B.A.(Hons.) *Memorial*, M.L.I.S. *McGill*, Centre for Newfoundland Studies

Gibson, I., B.Sc.(Hons.) *Queen's*, B.A. *Windsor*, M.I.St. *Toronto*, Information Services & Collection Development

Goddard, L., B.A.(Hons.) *Queen's*, M.L.I.S. *McGill*, Grad Dip IT *Memorial*, Systems

Godfrey, K., B.A., *Mt. Allison*, M.A. *McMaster*, M.L.I.S. *Western*

Goosney, J., B.A.(Hons.) *Memorial*, M.L.I.S. *Western*, Information Services

Icenhower, E., B.A. *Smith College*, M.L.S. *Columbia University*, Head, Bibliographic Control Services

Keeping, D.C., B.A.(Hons.) *Memorial*, M.L.I.S. *Dalhousie*, Ph.D. *Bradford* (Social Science Librarian) Collection Development

Lewis, R., B.A., M.A. *Simon Fraser*, M.L.I.S. *British Columbia*, Information Services & Collection Development

Liu, I., B.Sc. *Wuhan, China*, M.L.I.S. *Western*, Bibliographic Control Services

Lonardo, A., B.A., M.A. *Concordia*, M.L.S. *McGill*, Information Services

Penney, S., B.A. *Memorial*, M.L.I.S. *Western*, Bibliographic Control Services

Pretty, H., B.A. *Williamette*, M.L.I.S. *Washington*, Bibliographic Control Services

Quigley, C., B.F.A. *York*, M.I.St. *Toronto*, Archives and Special Collections

Riggs, B., B.A.(Hons.), B.Ed. *Memorial*, M.I.St. *Toronto*, Head, Archives and Special Collections

Ritcey, J., B.A. *Memorial*, M.L.S. *Dalhousie*, Head, Centre for Newfoundland Studies

Rodgers, W., B.A.(Hons.), M.A. *Memorial*, M.L.I.S. *Western*, Information Services & Collection Development

Rose, K., B.A., M.L.I.S. *Western Ontario*, M.M. *Wilfred Laurier*, Information Services & Collection Development

Seeman, D., B.A. *Alberta*, M.T.S. *Wycliffe College, Toronto*, M.I.St. *Toronto*, Bibliographic Control Services

Taylor-Harding, D.E., B.Sc. *Guelph*, M.L.S. *Western Ontario*, Information Services

Warner, P., B.A. *Memorial*, M.L.I.S. *Western*, Archives and Special Collections

Wood, A., B.A., M.A., M.A.(L.S.) *Michigan*, Honorary Research Librarian

6.24.3 Health Sciences Library

www.library.mun.ca/hsl/index.php

Barnett, L., B.Sc. *McGill*, M.L.I.S. *Dalhousie*, Head, Public Services Division

Fahey, S., B.A. *Memorial*, M.L.I.S. *McGill*, Public Services Librarian

Farrell, A., B.A. *Acadia*, M.L.I.S. *Dalhousie*, Public Services Librarian

Glynn, L., B.A. *Memorial*, M.L.I.S. *British Columbia*, Graduate Diploma in Clinical Epidemiology *Memorial*, Public Services Librarian

Gordon, S., B.A. *Memorial*, M.L.I.S. *Western*, Public Services Librarian

Morgan, P., B.A. *Memorial*, M.L.S. *McGill*, M.B.A. *Memorial*, Information Resources Librarian

6.24.4 Ferriss Hodgett Library

www.library.mun.ca/swgc/index.php

McGillis, L., B.A. *McGill*, M.L.S. *Toronto*, Associate University Librarian (Grenfell Campus)

Rose, C., B.F.A. *Simon Fraser*, M.L.I.S. *Dalhousie*, Public Services Librarian

Information regarding the University Library is located at **General Information, The University Library.**

6.25 Vice-President (Administration and Finance), Office of the

www.mun.ca/vpadmin/

Vice-President (Administration and Finance)

Decker, K., B.Comm.(Hons.) *Memorial*, C.A.

Director

Tibbo, C., B. Comm., M.B.A. *Memorial*

The Vice-President (Administration and Finance) is the senior administrative and financial executive officer of the University. The Office provides strategic leadership in the areas of Human Resources, Finance, Computing and Communications, Risk Management, Health & Safety, Privacy, and Facilities Management.

6.26 Vice-President (Grenfell Campus), Office of the

www.swgc.mun.ca/admin/Pages/vicepresident.aspx

Vice-President (Grenfell Campus)

Bluehardt, M.H., B.P.H.E., M.Sc. *Lakehead*, Ph.D. *Toronto*

Associate Vice-President (Grenfell Campus), Academic

Peddle, D., B.A., M.A. *Memorial*, Ph.D. *Ottawa*

Associate Vice-President (Grenfell Campus) (Administration and Finance)

Bradshaw, G., B. Eng, M.B.A. *Memorial*

Associate Vice-President (Grenfell Campus), Research

Card, A., B.Ed.(Hons) *DeMontfort*, M.A.(Ed.), Ed.D. *Southampton*

Working in close collaboration with the other Vice-Presidents and members of the senior management team of the University, the Vice-President (Grenfell Campus) reports directly to the President and serves as the chief academic and administrative officer of the Grenfell Campus. The Vice-President (Grenfell Campus) is responsible for providing academic and administrative leadership to the Grenfell Campus and its 1,250 students, almost 300 faculty and staff and 16 degree programs.

6.27 Vice-President (Marine Institute), Office of the

www.mi.mun.ca/vpoffice/

Vice-President (Marine Institute)

G. Blackwood, B.Sc.(Hons.), M.A. *Memorial*

Associate Vice-President (Marine Institute), Academic and Student Affairs

Fisher, P., B.Sc., P.G.C.E., Ac.Dip.Ed. *London*, M.Ed. *Memorial*, Ph.D. *Leeds*

Working in close collaboration with the other Vice-Presidents and members of the senior management team of the University, the Vice-President (Marine Institute) reports directly to the President and serves as the chief academic and administrative officer of the Marine Institute Campus.

6.28 Vice-President (Research), Office of the

www.mun.ca/research/vp/

Vice-President (Research)

Loomis, C.W., B.Sc.(Hons.), M.Sc., Ph.D. *Queen's*

Associate Vice-President (Research), Collaborations and Partnerships

Gosine, R.G., B.Eng. *Memorial*, Ph.D. *Cambridge*, FEC, P.Eng.

The Office of the Vice-President (Research) is responsible for promoting and enhancing the university's broad range of research activities. Specific priorities for the Vice-President (Research) include: Providing leadership in the development and execution of the University's Strategic Research Framework; supporting researchers across all academic disciplines; encouraging the full range of research at Memorial University of Newfoundland, including fundamental and applied research and creative scholarly activities; building partnerships with other universities, research organizations, government and the private sector, locally, nationally and internationally; increasing research funding to Memorial University of Newfoundland and other research organizations in the province; and enhancing the dissemination, application and commercialization of research results generated at Memorial University of Newfoundland.

7 General Information

Memorial University of Newfoundland is the only university in Newfoundland and Labrador. It has campuses in St. John's and in Corner Brook, as well as Harlow, England.

7.1 The Beginning

Memorial University College was established as a memorial to the Newfoundlanders who had lost their lives on active service during the First World War; it was later rededicated to also encompass the province's war dead of the Second World War. The College opened its doors on the old Parade grounds in St. John's to a total student body of 55 on September 15, 1925.

7.2 University Status

The elevation of the College to the full status of a university was one of the priorities of the first post-Confederation Government. At the initial session of our Provincial House of Assembly, July 13, 1949, the intention of the Government of the day was conveyed by the then Lieutenant-Governor, the Honourable Sir Albert Walsh, in these words from the Speech from the Throne:

"It is considered that Newfoundland should have her own degree-conferring University and you will be invited to consider legislation which would confer upon the Memorial University College the status of a university. It is planned to widen and improve the functions, and thus increase the public usefulness of this institution created originally in honour of our illustrious dead of the First World War."

Royal assent was given the Bill creating The Memorial University of Newfoundland on August 13, 1949, exactly one month to the day from the opening of the House. The Board of Regents and the Senate were inaugurated in May 1950, and the first Convocation of the University was held on June 3, 1950, when the first degrees were awarded.

7.3 A Period of Expansion

With university status, Memorial University of Newfoundland entered a period of rapid growth that was to continue into the 70s. In 1949-1950, there was a student body of 307 in the new University; in the academic year 1961-1962, when the University moved to its present campus, the student enrolment had reached 1745 full-time and 152 part-time. Ten years later, 1971-1972, the student population, including full- and part-time students on degree programs, was 10,980.

Meanwhile, there were equally dramatic changes in the variety and extent of available academic programs. In the early years of the University, there were two Faculties (Arts and Science, and Education). While the academic structure was quite similar in 1961, when the University moved to a new campus on Elizabeth Avenue in St. John's, areas of instruction, course offerings and degrees awarded had all increased.

Today, the University offers more than 100 undergraduate and graduate degree programs through six Faculties -- Arts, Science, Education, Medicine, Engineering and Business Administration; and six Schools -- Graduate Studies, Nursing, Human Kinetics and Recreation, Social Work, Music and Pharmacy; and also offers degree programs in Fine Arts and Resource Management. Information

regarding enrolment statistics can be found in the Fact Book at www.mun.ca/ciap/Analysis/fact_book.php.

In 1975, the University established a campus in Corner Brook. The College was re-named the Sir Wilfred Grenfell College in 1979 honouring the memory of the medical missionary who pioneered medicine in Northern Newfoundland and along the coast of Labrador. In 2010 the campus in Corner Brook was renamed Grenfell Campus, Memorial University of Newfoundland. Since its opening, Grenfell has progressed from a junior college offering first- and second-year courses to providing entire degrees in the areas of arts, fine arts, science, business administration, resource management and nursing. The first degrees, in the disciplines of theatre and visual arts, were introduced in 1988. Most recently, Grenfell has introduced degree programs in tourism studies and sustainable resource management and in collaboration with the Faculty of Education now offers a Bachelor of Education Program (Primary/Elementary) fast-track option. Grenfell Campus currently offers 16 degree programs. For more information see www.swgc.mun.ca.

In 1992 the Marine Institute joined the University, becoming the Fisheries and Marine Institute of Memorial University of Newfoundland. Founded in 1964, the Marine Institute offers a range of certificate, diploma and degree programs in fisheries and marine technology and is involved in research and technology transfer. For more information see www.mi.mun.ca.

Memorial University of Newfoundland's faculty and students actively participate in research and development. This University is one of the most important research facilities in Atlantic Canada and has developed numerous research programs and facilities that are among the most advanced in the world. For a complete listing of research facilities see www.mun.ca/research/units.

7.4 The Campuses

7.4.1 St. John's

The St. John's campus covers a total area of approximately 220 acres. It is divided by Prince Philip Drive, a four-lane arterial road that runs east to west across the campus. To the south, the boundary is Elizabeth Avenue; to the north, Long Pond and Kelly's Farm. The western boundary follows Westerland Road, west along Prince Philip Drive and north along Wicklow Street; on the east, the campus is bounded by Higgin's Line and adjoins the St. John's Arts & Culture Centre property on Allandale Road.

On the campus to the south of Prince Philip Drive are the Arts and Administration, Science, Chemistry-Physics, Education (G.A. Hickman), Mathematics (Henrietta Harvey), Physical Education, Biotechnology, Facilities Management and Music (M.O. Morgan) buildings; as well as the Queen Elizabeth II Library, Inco Innovation Centre, Paton College residence complex, Burton's Pond Apartments, Campus Childcare Inc., and a number of smaller buildings. The Works recreation complex was opened in 2002, comprising the Aquarena, Field House and other sports and recreation facilities on campus. Spanning Prince Philip Drive is the Smallwood Centre, containing student services and student union operations, as well as recreation and dining facilities.

North of Prince Philip Drive are the Health Sciences Centre incorporating the Faculty of Medicine, the School of Nursing, the School of Pharmacy, and the General Hospital Corporation; the Engineering (S.J. Carew), the Alexander Murray, the Faculty of Business Administration, and the C-CORE (Captain Robert A. Bartlett) buildings, St. John's College, Coughlan College, Queen's College, and Spencer Hall. The National Research Council's Institute for Ocean Technology is also located on the north side of the campus. Slightly further north is the Memorial University of Newfoundland Botanical Garden. The Ocean Sciences Centre is located to the west at Logy Bay.

7.4.2 Fisheries and Marine Institute

The Fisheries and Marine Institute is headquartered on Ridge Road in St. John's, and is Canada's leading centre of education, training, applied research and technology transfer for the ocean industries. As part of Memorial University of Newfoundland, Marine Institute offers degrees, advanced diplomas, diplomas of technology, certificates in such fields as marine transportation, food and water quality, naval architecture, aquaculture, coastal zone management and marine environmental.

The institute has a number of state-of-the-art centres and units, including the Offshore Safety and Survival Centre (OSSC), the Safety Emergency and Response Training Centre (SERT), the Centre of Marine Simulation (CMS), the Centre for Aquaculture and Seafood Development (C-ASD), MI International and the Centre for Sustainable and Aquatic Resources (C-SAR). These areas lead to the institute in applied research and technology transfer and also provide training to a variety of industry clients.

7.4.3 Corner Brook

Memorial University of Newfoundland's Grenfell Campus stands on a magnificent 185-acre site with a spectacular view of the city of Corner Brook and the Bay of Islands.

The campus was established in 1975, and in 1979 was named in honour of Sir Wilfred Grenfell, a medical missionary who pioneered medicine in northern Newfoundland and along the coast of Labrador. It was renamed Grenfell Campus in 2010. Located on University Drive, Grenfell's campus features four academic buildings. The Arts and Science building houses administrative offices, academic classrooms and labs, recreational facilities, a bookstore and a student residence. Student housing has since been expanded to include eight chalet-style apartment buildings, and ground was recently broken to construct another major residence complex on campus. The Fine Arts building features state-of-the-art facilities for theatre and visual arts programs. The Library and Computing building contains the Ferriss Hodgett Library, a computer lab and lecture hall facilities. The Student Centre, an annex to the Arts and Science building, provides dining and recreational space for the student population, as well as office space for the Grenfell Campus Student Union. The Forest Centre houses classroom, lab and lecture space, as well as the offices of the Canadian Forest Service and other partners. Through a partnership with the city of Corner Brook, Memorial University of Newfoundland assumed operation of the city's civic centre (the Pepsi Centre), which houses two ice surfaces, a fitness centre, and meeting, conference and concert venues.

Grenfell's programs are a testament to the beauty that surrounds the campus. Artists find their inspiration in the landscape and culture of the area. Scientists and researchers strive to protect the natural wonder of the place. Historians research our varied history, and literary enthusiasts write about their sense of where we are. This small, spectacular campus offers a personalized undergraduate education in a wide variety of interdisciplinary experiences: students may choose from degrees in arts, business administration, fine arts, education, nursing, science or resource management. Grenfell's low student-instructor ratio ensures that individual attention is the norm and there is ample opportunity to get to know the faculty. Further information may be obtained from the website at www.swgc.mun.ca.

7.4.4 Harlow

Directors of MUN (UK) LTD

Dr. Gary Kachanoski, Chair
 Dr. David Wardlaw
 Mr. Jim Andrews
 Mr. Derek Linfield
 Mr. Harvey Short

General Manager

Ms. Sandra Wright

Finance Manager

Mr. Simon Hatchett

In 1966 the Board of Regents approved the establishment of a small residential campus at Harlow, Essex approximately midway between London and Cambridge. The Campus went through extensive modernisation in 2002 and the refurbished campus was designed to meet the needs of today's students - those from Memorial University of Newfoundland wishing to study in Europe and those in Europe interested in pursuing studies at Harlow Campus. The Campus provides technologically equipped meeting facilities and residence accommodations for up to 51, as well as excellent food service capacity.

Up until March 2007, the Campus was operated by the Harlow Campus Trust, but in April 2007 the trust was replaced by a new company entitled MUN (UK), a company limited by guarantee and incorporated under English Law, to direct the operations of the Campus.

The main campus building is a converted 19th century Maltings (formerly used for drying barley for brewing) - accommodating 40 students in twin ensuite accommodation, which can be converted to single accommodation when required. In addition there is a purpose designed single bedroom for a disabled guest. A further 10 students can be accommodated in Cabot House, a self-contained residence house in a 17th century cottage with four twin rooms and two single rooms all with shared facilities.

Each bedroom in both the Maltings and Cabot House has a direct dial inward telephone and computer point with internet access (for use with personal lap-top computers). Wireless access is also available.

The Campus has three fully self-contained faculty properties each with one double and one twin room. These are two apartments at 44 and 46 Market Street and St. John's Cottage.

Conference/training space is available in St. John's House, which is the main lecture hall situated in a converted Victorian Schoolhouse. The lecture hall is fully networked and has audio visual connectivity. Flexible seating arrangements means the facility can comfortably accommodate up to 30 delegates. Additional conference/training space is available in the Lord Taylor Room situated in the Maltings. This conference room is fully networked and has flexible seating arrangements accommodating up to 20 delegates.

The Resources Room in the Maltings accommodates the library and small computer suite (which is set up to be additional teaching space when required). An area of the room is designed to be quiet space with study cubicles and comfortable seating.

There are a number of scholarships, bursaries and awards available to students wishing to attend Harlow. For further information refer to the Scholarships, Bursaries and Awards section.

Specific enquires about academic programs offered at Harlow should be directed to the appropriate Dean/Director/Division Head or Dr. D. Neville, Associate Vice President (Academic), Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by telephone at (709) 864-3971, or by fax at (709) 864-2074.

General enquiries about the Harlow Campus should be directed in writing to Ms. Sandra Wright, General Manager, Memorial University of Newfoundland, Harlow Campus, The Maltings, St. John's Walk, Market Street, Harlow, Essex CM17 OAJ, UK., or by telephone at 011 44 1279 455902, or by fax at 011 44 1279 455921, or by e-mail at wright@hcampus.inty.net.

Up to date information on the Harlow Campus and academic programs is available at www.mun.ca/harlow.

7.5 Objectives of the University

The objectives of Memorial University of Newfoundland are: to develop in the province an institution of higher learning deserving of respect for the quality of its academic standards and of its research; to establish new programs to meet the expanding needs of the province; and to provide the means whereby the University may reach out to all the people.

In 1994 the University adopted a mission statement:

Memorial University is committed to excellence in teaching, research and scholarship, and service to the general public.

Memorial University recognizes a special obligation to educate the citizens of Newfoundland and Labrador, to undertake research on the challenges this province faces and to share its expertise with the community.

This mission is at the core of this University's plans for its programs, campuses and activities at home and abroad. To learn more about the University's evolving plans and priorities, see www.mun.ca/strategicplanning/.

7.6 Presidents of Memorial University College

1925 - 1933 Mr. John Lewis Paton

1933 - 1949 Dr. Albert G. Hatcher

7.7 Presidents of the University

1949 - 1952 Dr. Albert G. Hatcher

1952 - 1966 Dr. Raymond Gushue

1966 - 1967 Mr. M.O. Morgan (*pro tempore*)

1967 - 1973 The Rt. Hon. the Lord Taylor of Harlow

1973 - 1981 Dr. M.O. Morgan

1981 - 1990 Dr. Leslie Harris

1990 - 1999 Dr. Arthur W. May

1999 - 2007 Dr. Axel Meisen

2007 - 2009 Dr. H.E.A. (Eddy) Campbell (Acting)

2009 - 2010 Dr. C. Loomis (*pro tempore*)

2010 - Present Dr. G. Kachanoski

7.8 Chancellors of the University

1952 - 1961 The Rt. Hon. Viscount Rothermere of Hemsted

1961 - 1968 The Rt. Hon. Lord Thomson of Fleet

1971 - 1979 Dr. G. Alain Frecker

1979 - 1988 Dr. Paul G. Desmarais

1994 - 2008 Hon. Dr. John C. Crosbie

2008 - Present General Rick J. Hillier (Retired)

7.9 Chairs of the Board of Regents (Established May, 1950)

1950 - 1954 Hon. Sir Albert Walsh
 1954 - 1968 Dr. Edmund J. Phelan
 1968 - 1974 Hon. Dr. Gordon A. Winter
 1974 - 1982 Hon. Dr. Frederick Russell
 1982 - 1991 Dr. Charles White
 1991 - 1997 Dr. Janet Gardiner
 1997 - 2002 Dr. Edward Roberts
 2002 - 2003 Chris Decker
 2003 - 2004 Dr. Georgina Hedges (*pro tempore*)
 2004 - 2006 Lorne Wheeler
 2005 - 2007 Dr. Georgina Hedges (*pro tempore*)
 2007 - 2008 Gilbert Dalton
 2008 - Present Robert Simmonds

7.10 University Constitution

The Constitution of the University is embodied in an Act of the House of Assembly of Newfoundland entitled *An Act Respecting the Memorial University of Newfoundland*, Chap. 231, Revised Statutes of Newfoundland (as amended). The Act delineates the authority and the functions of the University and its parts, as follows:

There shall be a university which shall be called the Memorial University of Newfoundland, consisting of a Chancellor, Convocation, Board of Regents, Senate, Faculty Councils and the Faculties and which shall be a body politic and corporate. No other university having corporate powers capable of being exercised within Newfoundland shall be known by the same name, nor shall any other university have power to grant degrees.

The University shall have full power and authority from time to time and at all times to establish and maintain such faculties, colleges, schools, institutions, departments, chairs and courses as to the Board of Regents may seem meet, and to give instructions and training; to grant degrees, including honorary degrees, diplomas and certificates of proficiency; to provide facilities for the prosecution of original research in every branch of knowledge and learning and to conduct and carry on such research work; and generally, to promote and carry on the work of a university in all its branches.

7.10.1 The Board of Regents

The management, administration and control of the property, revenue, business and affairs of the University are vested in a Board of Regents, consisting of:

1. three ex-officio members
 - a. the Chancellor of the University
 - b. the President of the University
 - c. the Vice-President of the University who is the Pro Vice-Chancellor;
2. six members elected by the Alumni Association of the University;
3. seventeen members appointed by the Lieutenant-Governor-in-Council; and
4. four members appointed by the Lieutenant-Governor-in-Council being full-time students of the University who
 - a. meet the requirements set out in the regulations, and
 - b. are recommended to the Lieutenant-Governor-in-Council by the board following the recommendation to the board of one candidate each from the following student unions:
 - i. the Memorial University of Newfoundland Students' Union,
 - ii. the Graduate Students' Union,
 - iii. the Marine Institute Students' Union, and
 - iv. the Grenfell Campus Student Union.

7.10.2 The Senate

Matters of an academic character are in general charge of the Senate of the University, consisting of the following:

1. The Chancellor of the University;
2. ex-officio members who shall be
 - a. the President of the University, who shall be the chairman thereof,
 - b. the Vice-President (Academic) of the University, who shall be the deputy chairman thereof,
 - c. the Deputy Minister of Education or a representative of the Deputy Minister,
 - d. the Vice-President of the Grenfell Campus,
 - e. the Deans of the Faculties of the University,
 - f. the Dean of Graduate Studies,
 - g. the University Librarian,
 - h. the University Registrar, and
 - i. such other persons holding office within the University or in any of the campuses or institutions affiliated with the University chosen in such number and manner as may be approved by the Board;
3. such members from the academic staff of the Faculties and Professional Schools of the University, exclusive of any person who is a member by virtue of paragraph 2., elected in such number and manner as may be approved by the Board, but the number elected under this paragraph shall be not less than twice the number of members named or chosen under paragraph 2.; and
4. thirteen members from the students in attendance at the University, including at least one student from the Marine Institute, one graduate student and one student from Grenfell Campus with all members to be chosen in a manner approved by the Board.

7.10.3 Convocation

Convocation of the University, as provided in the *Act*, is composed of the Chancellor, the President, the Senate, the Board of Regents, all persons who are graduates of the Memorial University College, all persons holding academic appointments with the University whose names are added to the roll of the Convocation by the Registrar of the University from time to time upon instructions from the President, and all persons who have become graduates of the University. The functions of Convocation are chiefly elective, but it may also consider all questions affecting the well-being and prosperity of the University and make representations from time to time on such questions to the Senate, which shall consider the same and return to the Convocation its conclusions thereon.

7.10.4 Affiliation

The *Act* provides that, subject to the approval of the Lieutenant-Governor-in-Council, the University may affiliate with any college or institution established in the province for the promotion of Arts and Science, or for instruction in Law, Medicine, Nursing, Education, Engineering, Agriculture or in any other useful branch of learning, and to dissolve any such affiliation. The institution which has become affiliated with the University under this provision is Queen's College, St. John's.

7.11 Queen's College

7.11.1 Faculty of Theology

Queen's College, founded in 1841, is an Associate Member of The Association of Theological Schools in the United States and Canada and is affiliated with Memorial University of Newfoundland. It has a Faculty of Theology which offers courses in theology and in professional training for ministry. Under Legislative authority it confers the degrees of Master of Divinity, Master of Theological Studies, and Bachelor of Theology and grants a Diploma in Theology and Ministry and an Associate in Theology.

Further information may be obtained by contacting the College in writing to The Registrar, Queen's College, St. John's, NL, A1B 3R6, or by telephone to (709) 753-0116, (877) 753-0116 (toll free), by fax to (709) 753-1214, by e-mail to queens@mun.ca or through the website at www.mun.ca/queens.

7.12 Academic Dress

The academic dress for matriculated undergraduates of the University shall be similar to the Scholar's gown of the University of Oxford. It shall be worn whenever the President so directs.

The gowns of the Bachelors shall be of black stuff. The gowns of the Masters shall be of black stuff or silk. The gowns of the Doctors shall be of fine scarlet cloth or silk, or of black stuff or silk.

The pattern of the Bachelor's gown shall be similar to that of the Oxford Bachelor's gown. The pattern of the Master's gown and the Doctor's black gown shall be similar to that of the Oxford Master's gown, except that the Doctor's gown shall have an edging of black silk braid at the opening of the sleeve. The Doctor's scarlet gown shall be similar to that of the Oxford Doctor of Divinity's gown.

The hoods of the Bachelors shall be made of black stuff, the hoods of the Masters of black silk, and the hoods of the Doctors of scarlet silk. They shall be full in shape and lined with the University colours of claret and white. The hoods of the Bachelors shall be trimmed with white fur, the tippets with velvet in the colours distinctive of the Faculty or Degree. The hoods and tippets of the Masters shall be edged with velvet in the colours distinctive of the Faculty or Degree. The hoods and tippets of the Doctors shall be edged with silk in the colours distinctive of the Faculty or Degree; however, the hood of the Doctor of Philosophy shall be of claret silk, lined and edged with claret silk.

The University hood, worn by official representatives of Memorial University of Newfoundland participating in ceremonies, shall be made of black stuff, and lined and edged with claret and white silk.

The distinctive colours for the degrees shall be:

B.A., B.A. (Police Studies), M.A. - White
 B.B.A., B.Comm., B.Comm.(Co-op.), i.B.B.A., M.B.A., M.O.G.S. - Tan
 B.Ed., B.Ed.(Elementary), B.Ed.(Intermediate/Secondary), B.Ed.(Native and Northern), B.Ed.(Primary), B.Ed.(Post-Secondary), B.Ed.(Primary/Elementary), B.Mus.Ed., B.Sp.Ed., B.Voc.Ed., M.Ed - Light Blue
 B.Eng., M.Eng. - Orange
 B.F.A.(Theatre), B.F.A.(Visual Arts) - Amethyst
 B.Kin., B.Kin.(Co-op.), B.P.E., B.P.E.(Co-op.), B.Rec., B.Rec.(Co-op.), M.P.E., M.Sc.(Kinesiology) - Sage Green
 B.M.S., B. Tech, M.M.S.(Fisheries Resource Management) - Navy Blue
 B.Mus., M.Mus. - Pink
 B.N., M.N. - Coral
 B.R.M. - Citron
 B.Sc., M.A.S., M.A.Sc., M.A.S.P.(Co-op), M.Env.Sc., M.Sc. - Gold
 B.Sc.(Pharmacy), M.Sc.(Pharmacy) - Clover
 B.S.W., M.S.W. - Ruby Gem
 M.D., M.P.H., M.Sc.(Medicine) - Green
 M.E.R. - Chocolate Brown
 M.Phil., Ph.D. - Claret
 M.W.S. - Purple

The caps of Bachelors and Masters shall be black and of the square shape, with black tassel. The caps of the Doctors shall be similar to the Oxford Doctor's bonnet.

The academic dress for the Officers of the University shall be as follows:

Chancellor - a silk gown heavily embroidered with gold braid

Vice-chancellor - a silk gown embroidered with gold braid

Pro vice-chancellor - a silk gown embroidered with gold braid

Registrar and other Officers of the University - gowns of a pattern approved by Senate

7.13 The University Library

www.library.mun.ca/

The University Library consists of the Queen Elizabeth II Library, the Health Sciences Library, and the Dr. C.R. Barrett Library, Fisheries and Marine Institute, all in St. John's, and the Ferriss Hodgett Library in Corner Brook. These four units together have a collection

equivalent to 2.5 million volumes and more than 26,000 current journal subscriptions. This collection serves as the major information resource for the University as well as the province. All units of the library system may be used by all students, faculty and staff, as well as the community at large.

7.13.1 Queen Elizabeth II Library

The Queen Elizabeth II Library was opened for service in January 1982. It is an impressive structure of 200,000 square feet on five levels. It has a seating capacity of 2,000 and can hold 2.6 million physical volumes. The Information Services Division, located on the main floor (second level), provides assistance to people wishing to make use of the library's resources and services. This division provides reference and computer-assisted bibliographic search services. Library tours and individual or group instruction in the use of the library and its resources may be arranged for students through this division. The Commons part of Information Services is located on the Library's main floor. The Commons is a partnership between Computing and Communications, the Queen Elizabeth II Library, and the Writing Centre. The Commons provides access to print, electronic, and technology resources with the support and expertise needed to help users in the use of these resources. The wall space in the Commons is called First Space and is used to highlight the work of the fine arts students of Memorial University of Newfoundland. The Government Documents Section contains a depository collection of Canadian government documents together with an extensive collection of material from the United States and other countries and international organizations. Document Delivery provides interlibrary loan and services to off-campus students. The Library's Centre for Newfoundland Studies collects all published material pertaining to Newfoundland and Labrador, as well as manuscript materials. The Music Resource Centre, located in the School of Music, contains scores, sound recordings, and listening equipment.

7.13.2 Health Sciences Library

The Health Sciences Library is located on the ground floor of the Health Sciences Centre on the north campus of the University. It is a designated Canadian MEDLINE Centre which provides access to computer-assisted searches of the world's biomedical literature on demand in support of clinical, teaching, and research interests.

The Health Sciences Library has a collection of over 40,000 books on medicine, nursing, dentistry, pharmacy and allied health subjects and subscribes to more than 1700 paper and electronic journals. It maintains an audio-visual collection of over 1500 titles, which includes videotapes, slides, microfiche/film and audio cassettes.

7.13.3 Dr. C.R. Barrett Library

The Dr. C.R. Barrett Library is located on the main floor of the Fisheries and Marine Institute. It offers a comprehensive range of library and audio-visual services to students, faculty, and staff at the Fisheries and Marine Institute, the College of North Atlantic Engineering Technology Centre and to the Newfoundland and Labrador marine industries.

The library collection supports study and research in fisheries and aquaculture, marine engineering, nautical science, and the aquatic environment. The collection also includes significant holdings in engineering.

Library holdings include 50,000 books and technical reports, 400 current magazine and newspaper subscriptions, print and electronic reference sources, 1,400 films and videos, maps and pamphlets. The collection includes 4,500 ship drawings.

7.13.4 Ferriss Hodgett Library

The Ferriss Hodgett Library is located on levels 2 and 3 of the Library & Computing Building, Grenfell Campus, with seating for 203 users and includes group study rooms, audio-visual and computer carrels.

The Library holds over 100,000 books and 450 current subscriptions, along with collections of audio-visual materials, government documents, microforms, periodicals, and access to many e-journals.

A full range of public services is available including reference assistance, orientation tours and interlibrary loans, as well as access to electronic information resources, Internet, spreadsheet, word processing, and presentation software.

8 Student Affairs and Services

www.mun.ca/student/home/

The Deputy Provost (Students) and Associate Vice-President (Academic) Undergraduate Studies provides leadership and co-ordination in improving the student academic learning experience and student success. In partnership with the entire university community the position provides leadership to create and maintain integrated and effective pan-university academic and non-academic support services for students and ensures that interests of students are represented in the University's decision-making processes and committee activities. The Deputy Provost fosters synergistic interactions between academic units and non-academic support and Memorial University of Newfoundland's undergraduate and graduate student organizations units en route to a more integrated provision of services to support students inside and outside the classroom.

The following departments are included in the portfolio of the Deputy Provost (Students): Aboriginal Resource Centre; Blundon Centre; Career Development and Experiential Learning; Co-operative Education; Housing, Conference, and Food Services; International Centre; Office of the Registrar; Office of Student Recruitment; Scholarships and Awards; Service Learning; Student Health Services; Student Success; Student Volunteer Bureau; and the University Bookstore.

8.1 Canadian Forces University Training Plans

Selected students may qualify for financial assistance through these Canadian Forces University Training Plans: the Regular Officer Training Plan (ROTP), the Regular Officer Training Plan (ROTP-Coop), the Dental Officer Training Plan (DOTP), the Medical Officer Training Plan (MOTP), and the Reserve Entry Scheme Officer (RESO). Full details may be obtained in writing to the Canadian Forces Recruiting Centre Detachment St. John's, Sir Humphrey Gilbert Building, 165 Duckworth Street, St. John's, NL or the Canadian Forces Recruiting Centre Detachment Corner Brook, CIBC Building, 9 Main Street, Suite 203, Corner Brook, NL.

8.2 Career Development and Experiential Learning (CDEL)

Career Development and Experiential Learning (CDEL) encompasses a broad range of programs designed to assist undergraduate, graduate students, and alumni of the University explore their career options and gain learning based work or volunteer experience. The Department includes the Centre for Career Development, Experiential Learning, and the Student Volunteer Bureau.

8.2.1 Centre for Career Development

The Centre for Career Development assists students and alumni explore their career options. The Centre provides labour market information, employability skills workshops, individual consultations, and employment counselling, and enables students to gain practical

career-related experiences.

The Centre helps students gather information relevant to educational and career goals and assists students and alumni develop both short and long-term career plans. Workshops are offered to enhance the job search process for students and alumni.

The Centre currently markets Memorial University of Newfoundland students to local, national, and international employer groups as well as assists employers with their on-campus recruitment needs. The Career and Graduate School Fair along with information sessions are provided to assist students in their transition to the world of work.

Postings for summer, part-time, and graduate employment are advertised throughout the year at MyMunLife. Students are encouraged to check the Centre's postings on a regular basis. The Centre for Career Development is located on the fourth floor of the Smallwood Centre in UC4002 and is open from 9:00 a.m. to 5:00 p.m. The website for the Centre can be viewed at www.mun.ca/cdel.

8.2.2 Experiential Learning

Experiential Learning provides support to the Division of Co-operative Education around marketing, employment program administration, interview facilitation and information technology; delivers on-campus employment programs for students such as SWASP and MUCEP; supports and promotes opportunities for students to "go abroad" through academic exchange, work and/or volunteer experience; offers experiential learning opportunities to students, particularly service learning through curricular and co-curricular programs and; works with academic programs on the administration of experiential learning based programs. Experiential Learning is located on the fourth floor of the Smallwood Centre, UC4000 and is open from 9:00 a.m. to 5:00 p.m. The website for Experiential Learning can be viewed at www.mun.ca/cdel.

8.2.3 Student Volunteer Bureau (SVB)

The Student Volunteer Bureau (SVB) is a resource centre and referral service for students interested in getting involved with volunteer work. It is a partnership between CDEL and MUNSU. Founded in 1983, the SVB is a by students, for students operation that aims to foster and enhance the quality of student life at Memorial University of Newfoundland. The Office is staffed by trained student employees and volunteers to assist individuals in finding volunteer placements both on-campus and in the community. The SVB coordinates the Volunteer Incentive Program (VIP), a program of three ascending award levels that was created to encourage and recognize student involvement in volunteer activities on and off campus. VIP is designed to promote career development and self-awareness, as each participant progresses through their university careers. The SVB also promotes and recognizes volunteerism by hosting the annual Get Involved and Volunteer Fair with MUNSU each Fall, as well as coordinating the annual MUN Volunteer Day Awards Ceremony each Spring. The SVB is located on the fourth floor of the Smallwood Centre, UC4001. The website for the SVB is www.mun.ca/cdel/volunteer/.

8.3 Counselling Centre

The primary function of the Counselling Centre is to help students develop their personal capabilities. Through individualized personal counselling and a wide range of programs, students are encouraged and helped to develop their own unique resources and thereby promote personal growth and intellectual development. The Centre also serves as a training centre for advanced students in a number of helping professions.

8.3.1 Chaplaincy

The Chaplaincy is currently comprised of chaplains representing the United, Salvation Army, Pentecostal and Roman Catholic denominations. The Chaplaincy attempts to provide resources, guidance and support for members of the university community. The Chaplaincy also seeks to bring a faith dimension to contemporary issues such as peace, justice, technology and science. The chaplains offer individual pastoral counselling as well as joint programs including weekly workshops, discussion groups, social activities and worship opportunities. Schedules of events are available from the chaplains or through the website at www.mun.ca/ministries/. The Chaplaincy is located at UC 5001B.

8.3.2 Glenn Roy Blundon Centre for Students with Disabilities

The Glenn Roy Blundon Centre for Students with Disabilities coordinates services for students with disabilities and those with short-term illnesses and injuries attending Memorial University of Newfoundland's St. John's campus. Services and accommodations include: assistance arranging academic accommodations for tests and exams (medical or psycho-educational documentation is required), access to adaptive technology and software, orientation of new students, note-taking assistance, card access to wheelchair elevators and lifts on campus, in-servicing of faculty and staff regarding disability issues and accommodations, and a liaising network between students, faculty, staff, and community groups. A copy of the University's Policy on Academic Accommodations for Students with Disabilities is available at www.mun.ca/policy/site/index.php. For further information contact the Centre by visiting the University Centre, room UC4007, or by telephone to (709) 864-2156 (Voice), (709) 864-4763 (TTY), or by e-mail to blundon@mun.ca, or through the website at www.mun.ca/blundon.

For information about the services available at Grenfell Campus, contact the Student Services Learning Centre in person to AS235, or by telephone to (709) 637-6268, or through the website at www.swgc.mun.ca/lcentre/Pages/default.aspx.

For information about the services available at the Fisheries and Marine Institute, contact the Student Services Guidance Office in person to W3013C, or by telephone to (709) 778-0310, or by email to guidance@mi.mun.ca, or through the website at www.mi.mun.ca/guidance/.

8.3.3 Individual and Group Counselling for Other Personal Concerns

In addition to individualized personal counselling, the Centre offers specialized group and/or training programs. For many students the fear of testing, fear of asserting one's self and continued mental and physical stress can lead to poor academic performance or personal problems. These, and other such difficulties, can be dealt with on either an individual or group basis, depending upon the student's needs. The Counselling Centre routinely offers a variety of groups: Assertiveness Training, Developing Healthy Relationships, Mood Management, Test Anxiety, and others on demand.

8.3.4 Learning Enhancement Programs

Through a number of short groups and structured activities, students may actively enhance their learning capabilities. Most of the learning programs offered train participants to employ a number of organizational techniques to comprehend and, later, to recall important concepts. Specific programs offered through the Centre apply these ideas to the areas of Speed Reading and Comprehension, Organizing Ideas for Term Papers and Essays, and Oral Communication.

8.3.5 Psycho-Educational Testing

A psycho-educational assessment program is offered on a fee-for-service basis for students seeking academic accommodations.

The Counselling Centre is located in the Smallwood Centre, and is open 9:00 a.m. to 1:00 p.m. and 2:00 p.m. to 5:00 p.m. (4:30 p.m. in the summer), Monday through Friday. All services are free of charge to students and appointments can be made in person at UC5000, or by telephone to (709) 864-8874, or email at counselc@mun.ca, or by visiting the website at www.mun.ca/counselling/home/psychoed.php.

8.3.6 UCC 2020: Applied Cognitive and Affective Learning Strategies for Undergraduate Students

This 3 credit hour course is an introduction to cognitive and affective learning strategies and techniques with an emphasis on the application of these techniques in the students' own learning repertoires together with an overview of relevant research from cognitive psychology and related fields. Topics covered will include information processing, memory, forgetting, problem solving, metacognition, general and specific learning strategies, learning styles, and affective strategies. Students can receive credit for only one of UCC 2020 or University 2020.

8.3.7 Wellness Programs

Wellness Programs co-ordinate a broad range of health and wellness services for the student community. Our main mission is to raise awareness to the many self-care skills needed for all. Our programs consist of the peer helper program and the many other outreach events organized by this office. Located in the Counselling Centre, wellness education works in collaboration with various campus and community organizations to help facilitate wellness promotion at the University.

Inquiries may be made in-person at UC5002A, by telephone to (709) 864-2659, or through the website at www.mun.ca/student/healthy/.

8.4 Firearms On Campus

Students are reminded that firearms (including air-rifles, air-guns and sling shots) may not be brought into, or used in, any part of the University except the rifle range.

8.5 Housing, Food and Conference Services

Housing, Food and Conference Services provides on-campus housing for students registered at Memorial University of Newfoundland and the Fisheries and Marine Institute, off-campus housing services, and food services for the St. John's campus. A student is responsible for locating his/her own accommodations on or off the campus. Information about services and applications for on campus housing is available through the website at: www.mun.ca/hfcs, or by e-mail at housing@mun.ca, or by telephone to (709) 864-7590/91/92, or in writing to Housing, Food and Conference Services, Room 309 Hatcher House, Memorial University of Newfoundland, St. John's, NL A1B 3P7.

8.5.1 On-Campus Housing

Memorial University of Newfoundland provides two styles of on-campus housing: traditional residence halls of Paton College and apartment style accommodations in Burton's Pond. The ten Paton College "Houses" are co-educational and provide accommodations, mostly in double rooms, for approximately 1000 students. Within each House there is a kitchen, TV room, laundry room, study room, and computer room. Accommodations in Paton College consist of room and board and all residents must purchase a meal plan out outlined under the **Food Services** section of this Calendar. Burton's Pond Apartments provides housing for approximately 500 students in four apartment buildings (Cabot Court, Cartier Court, Gilbert Court, and Guy Court). Each apartment consists of four single bedrooms and shared kitchen, living room, and bathroom. A services building, Corte Real, which is accessible to residents 24 hours a day, includes a computer room, a laundry centre, a study room, a common room, and the residents' mail boxes. On-Campus Housing is also available for students with families in 12 two bedroom apartments in Baltimore Court. All residents of on-campus housing, and their guests, must abide by the Housing Regulations as set out in the *Code of Student Conduct*. For information regarding the *Code of Student Conduct* contact the Office of Student Affairs and Services.

Admission or readmission to on-campus housing is based on several factors, including scholarship, the applicant's potential to contribute to the quality of student life, suitability, and prior behaviour. The University reserves the right to refuse admission or readmission to on-campus housing to any applicant. A processing fee is required for each application and is non-refundable and non-creditable in all instances. An offer of accommodation for on-campus housing is conditional on the applicant being accepted to Memorial University of Newfoundland or the Fisheries and Marine Institute. A student who is not accepted to the University must notify the Housing Office of his/her intention to cancel accommodations immediately upon notification from the University. All residents entering in the Fall semester will be required to sign a two-semester occupancy agreement for the Fall and Winter semesters. Occupancy is normally from the day before the first day of classes until 12:00 noon on the day after the last regularly scheduled undergraduate examination. Residence fees cover the period of a particular semester only. Residents who require accommodations between semesters, for academic reasons, may be provided accommodations, upon approval, if space is available. There is an additional charge for accommodations between the regular semesters, which will be applied to the student's account. Housing, Food, and Conference Services reserves the right to deny accommodation outside the regular semesters.

8.5.2 Off-Campus Housing

Housing, Food and Conference Services, through Off-Campus Housing (OCH), provides information, enhanced web resources and programming to students of Memorial University of Newfoundland who wish to secure off-campus housing through its website. Housing, Food and Conference Services personnel will conduct site visits, review the rental properties using the Off-Campus Housing Amenity Checklist, and update the web site information. These listings are provided for information only and are not endorsed in any way by Memorial University of Newfoundland or Housing, Food and Conference Services. The University does not take any responsibility for these accommodations. Information about our Office Campus Office can be obtained through the website at: www.housing.mun.ca/och, or by email at och@mun.ca, or by telephone to (709) 864-3765.

8.5.3 Food Services

Food Services at Memorial University of Newfoundland's St. John's campus are provided by Chartwells Educational Dining Services. All residents of Paton College are required to purchase a 10, 14 or 19 meal plan. Meal plan tickets are valid from the breakfast meal on the day following the first day of Housing registration. The meal plan ticket expires with the evening meal on the day of University's last regularly scheduled undergraduate examination. Refunds will not be issued to residents for accommodations and/or meal tickets. All residents of Burtons Pond Apartments and Baltimore are eligible to purchase meal plan tickets from the food service provider.

8.6 International Student Advising

The International Student Advising Office is located in Corte Real, Burton's Pond Complex, Room 1000 C. Settlement and integration of foreign students are two major functions of the advisors. New students must meet with the International Student Advisors upon arrival for advice concerning their stay at the University and their compulsory health insurance program. Further information may be obtained by telephone to (709) 864-8895 or through the website at www.mun.ca/isa/main.

8.7 Student Financial Services

Information regarding the Canada - Newfoundland and Labrador Student Loans Program is available from Student Financial Services, Department of Education, located in Coughlan College. Student Financial Services can be reached by telephone to (709) 729-4244/5849, email at www.studentaid@gov.nl.ca or through the website at www.ed.gov.nl.ca/studentaid/.

8.8 Student Health Service

The staff at Student Health Service are available to provide comprehensive health care and to assist students in taking responsibility for their own health. Primary functions of the Service are the diagnosis and treatment of illness, the activation and maintenance of wellness and the promotion of health education programs.

The Student Health Service is located in room UC4023 on the fourth floor of the Smallwood Centre, and is open Monday through Friday, 8:30 a.m. to 4:00 p.m. by appointment only, except for emergencies. Walk in clinics are scheduled throughout the week. Further information may be obtained by telephone to (709) 864-7597 or through the website at www.mun.ca/health.

8.8.1 International Students

International students are automatically enrolled, upon registration, in the mandatory emergency medical insurance plan. International students may opt in their dependents. A personal medical card will be issued by the International Student Advising (ISA) Office and must be presented by the student each time medical or hospital services are required. The student must also sign a claim form for each medical or hospital service rendered. MCP cards are required for international students that are MCP eligible and should be presented first in the event of medical care. Further information may be obtained by contacting the International Student Advising Office.

Graduate international students eligible for provincial health coverage (MCP) should bring proof to the ISA office and opt out of the emergency plan and into the Graduate Students' Union (GSU) health plan.

Undergraduate international students eligible for provincial health coverage (MCP) should bring proof to the ISA office and opt out of the emergency plan and into the Memorial University of Newfoundland Students' Union (MUNSU) health plan.

8.8.2 Medical Records

All students' medical records are strictly confidential. No information is released without the request and written consent of the student.

8.8.3 Medical Services

Services provided include:

1. diagnosis and treatment of: physical illness, emotional problems, sexually transmitted diseases, injuries;
2. individual counselling on various aspects of health and wellness: smoking, fitness, weight control, nutrition, alcohol and drug abuse;
3. referral to: specialists, physiotherapists, hospital diagnostic services, other health care agencies;
4. reproductive health: pap smears, contraception, pregnancy - testing, referral services;
5. Injury rehabilitation programs;
6. AIDS (HIV antibody) testing: confidential blood tests, pre-test counselling, post-test counselling;
7. "Medicals" (non-insured service): pre-employment, pre-admission to professional schools, SCUBA diving, driver's license, TB skin test;
8. Educational materials on health issues;
9. MCP information and application forms; and
10. Vaccinations.

8.8.4 Medicals

"Medicals" (pre-employment, SCUBA, driver's licence, life insurance, etc.) are not covered by insurance plans and must be paid for by the student.

8.8.5 New Students

Students are encouraged to bring a copy of their medical records to the Student Health Centre. This is especially important for students who:

1. have chronic or recurrent illness, e.g. asthma, diabetes, inflammatory bowel disease, seizure disorders;
2. require refills of prescription drugs;
3. have a physical disability, e.g. cerebral palsy, spina bifida, visual or hearing impairment; or
4. have a history of mental illness.

8.8.6 Newfoundland and Labrador Students

MCP cards are required.

8.8.7 Payment

The University will bill the appropriate paying agency for the eligible medical services received at the Student Health Service.

8.8.8 Students From Other Canadian Provinces

Students from other Canadian provinces are required to bring their provincial medicare cards.

8.9 Student Success Programs

Student Success Programs is responsible for the development and administration of programs and activities for students, the identification and assessment of emerging campus trends, long range and strategic planning, fostering and supporting campus leadership as it relates to student governments, campus societies and campus policy development for students.

Student Success Programs works closely with students, staff and faculty and the community at large to maximize the quality of student and academic life for students. Student Success Programs is comprised of the following speciality areas:

8.9.1 Answers

Answers is a front line service centre for a variety of programs and services for students. Answers coordinates leadership programs such as Orientation for students and parents, Leadership, Education and Preparation (LEAP!), Leader Forum, Horizons and Memorial Ambassador. It also offers distribution of the Canada-Newfoundland Student Loans Program, Campus Card and locker rentals. For further information contact Answers by telephone to (709) 864-7461, by email to answers@mun.ca, or through the website at www.mun.ca/answers/about, or by visiting the centre at UC 3005.

8.9.2 Aboriginal Resource Office

All Aboriginal students are provided a range of services to assist with the university experience. Inquiries may be made in-person at UC4003 or by telephone to (709) 864-3495, or through the website at www.mun.ca/aro/about/.

8.9.3 Scholarships, Bursaries and Awards

Student Affairs and Services administers the Scholarships, Bursaries and Awards Program for the University, distributes out of Province Financial Aid, and emergency financial aid. Inquiries may be made in-person at UC4018, by telephone to (709) 864-3956, or through the website at www.mun.ca/scholarships/home.

8.10 Student Unions

8.10.1 Memorial University of Newfoundland Students' Union (MUNSU)

The Memorial University of Newfoundland Students' Union Act (1968) incorporated the Students' Union (MUNSU) as the official students' union representing undergraduate students at the University's St. John's campus.

The Students' Union provides a range of advocacy work to improve the lives of its members and increase accessibility of post-secondary education. It lobbies all levels of government and other decision-making bodies and organizes campaigns around these and other issues which are important to the membership. It also provides services to improve the quality of student life: the Copy Centre and Postal Service, Health and Dental Insurance, SafeDrive / WalkSafe, the Student Handbook/Dayplanner, Breezeway Bar, CHMR-FM radio, and others. The cost of services are partially funded by Students' Union fees paid by each undergraduate student upon registration. MUNSU assists students on an individual basis to resolve student aid as well as academic-based problems and appeals. Through the offices of the Director of Advocacy, problems with appeals, assessments, repayment, and general complaints in these areas are addressed.

The Students' Union offers free legal services to students and a legal aid supervisor is available for appointment. These sessions are not considered extended legal counsel. Students who have more serious issues may be referred to the MUNSU lawyer, for one free consultation, per issue, per semester.

MUNSU has established and provides funding for a number of Resource Centres on campus: Women's Resource Centre (WRC), International Students' Centre (ISC), Lesbian-Bisexual-Gay-Transgendered Resource Centre (LBGT-MUN), MUN DISC (Disability Information and Support Centre), Students Older than Average (SOTA), Student Parents Resource Centre, and the Aboriginal Students' Centre. The Students' Union also operates over 100 student clubs organized around a wide range of academic and extracurricular activities.

The Students' Union is a member of the Canadian Federation of Students (CFS) representing over half a million students across Canada. Further information may be obtained from the website at www.munsu.ca.

8.10.2 Students' Union Fee

All full-time and part-time undergraduate and graduate students of the University pay compulsory fees to their respective students' unions (MUNSU or GSU) and all students, upon registration, automatically become members of either MUNSU, the undergraduate students' union, or GSU, the graduate students' union.

8.10.3 The Graduate Students' Union (GSU)

The Graduate Students' Union (GSU) at Memorial University of Newfoundland is an organization run for graduate students by graduate students. Founded in 1967, the GSU is one of Canada's oldest independently incorporated graduate student governments. Every graduate student at the University becomes a member of the GSU upon registration. Presently, the graduate student body consists of over 3000 full and part-time students, thereby comprising more than 10% of the total student population at Memorial University of Newfoundland.

The Graduate Students' Union has two main functions: 1) to represent and protect the interests of the graduate students at all levels of university governance, and 2) to help enhance the quality of graduate student life at Memorial University of Newfoundland. Graduate student fees, presently \$20 per semester per student, provide the GSU with an annual operating budget. These fees are used to run the GSU office, help finance social and academic events for graduate students, provide conference aid for students presenting at conferences, and to cover other operating expenses.

The Graduate Students' Union is run by a Board of Directors consisting of the five GSU Executive officers and one student representative from each academic unit with a graduate program. Additionally, graduate students who sit on various university committees regularly attend. The Board meets once a month to assist the Executive in guiding the development and direction of the organization. The Board meetings also give students a chance to raise concerns from their individual departments and in return, to receive advice or suggestions on problem solving. These meetings are the main line of communication between the Executive officers and the graduate student population at the University. It is for this reason, that the GSU needs an active and interested Board of Directors. Graduate students who are interested in getting involved are always welcome, and should speak to their department representative, or contact the GSU office.

The Graduate Students' Union is located in Feild Hall on the north side of campus. Operated by the GSU, Feild Hall is comprised of four floors: the top two floors for a graduate student residence, one floor for departmental graduate student offices and GSU offices, and the ground floor for Bitters - Restaurant and Lounge, the pub owned and operated by the GSU.

The Graduate Students' Union general office is located on the second floor of Feild Hall in room GH 2007. Office hours are posted outside the office door, on the answering service, and the website. You can reach the GSU by phone to (709) 864-4395, by fax at (709) 864-3395, by email to gsu@gsumun.ca, or by writing to Graduate Students' Union, Feild Hall, GH2007, 216 Prince Philip Drive, St. John's, NL, A1B 3R5. Further information about the GSU can be obtained from the website at www.gsumun.ca.

8.11 University Bookstore

The University Bookstore is the on-campus site for text, reference and general reading. The Bookstore carries stationery, school supplies, crested clothing, backpacks and memorabilia. Distance Education students are to order textbooks through Bookstore website. The University Bookstore is located at UC2006, telephone to (709) 864-7440, or website at www.bookstore.mun.ca.

9 Dentistry, Physiotherapy, and Occupational Therapy

9.1 General Information

Because admission requirements vary significantly in different institutions and from one health science to another (e.g., Dentistry, Dental Hygiene, Physiotherapy, Occupational Therapy), interested students are advised to plan carefully and early.

The Career Planning Centre, located in the University Centre in room UC4002, can provide advice or, in some instances, arrange for students to contact other sources of more detailed information. The Centre maintains considerable information on careers in the various health fields, including guides and university calendars outlining where the programs of study are available and their entrance requirements. Interested students should consult these materials as early as possible, preferably before the Orientation Week interview and first-year registration.

9.2 Dentistry

After having consulted the Career Planning Centre, students who require further advice about dentistry prerequisites should consult Dr. Faye Murrin, Department of Biology in room S4109, who has agreed to act as the faculty advisor for pre-dental students.

9.3 Occupational Therapy

Students interested in pursuing a career in Occupational Therapy may arrange an appointment with Brenda Head, who has been designated by Memorial University of Newfoundland as a liaison person for the School of Occupational Therapy at Dalhousie University. Further information may be obtained by writing Ms. Brenda Head, Memorial University of Newfoundland, Room 2765, Health Science Centre, St. John's, NL A1B 3V6, or by telephone to (709) 777-7105.

9.4 Physiotherapy

Physiotherapy career information is available at the Career Planning Centre. Students requiring additional assistance or advice may arrange an appointment with Janet O'Dea.

Ms. O'Dea has been designated by Memorial University of Newfoundland as a liaison person with Dalhousie University, School of Physiotherapy and as a source of advice concerning other Physiotherapy Programs in Canada. Further information may be obtained by writing Janet O'Dea, Memorial University of Newfoundland, Room 2765, Health Sciences Centre, St. John's, NL A1B 3V6, or by telephone to (709) 777-7080, or through the website at www.med.mun.ca/OTPT/.

10 Distance Education, Learning and Teaching Support (DELTS)

Acting Director

Wells, R., B.Sc.(Hons.), M.Ed. *Memorial*

Administrative Staff

Mahon, P., Secretary

Distance Education, Learning and Teaching Support (DELTS) is responsible for the design, development and delivery of credit courses and degree programs via distance; advancement and support of e-learning throughout the University; and support for students and faculty in the use and application of technologies for effective teaching and learning. Through its activities DELTS connects students across the province, the country and the world that have limited educational opportunities due to time and location. It also works to enhance, promote and support an e-learning vision throughout the institution. DELTS strives to provide faculties and departments with the e-learning expertise and knowledge needed to progress the University's mandate in expanding and improving its online education delivery. A Memorandum of Understanding with the Department of Education's Centre for Distance Learning and Innovation (CDLI), who deliver distance education to K-12 students, allows DELTS to share knowledge and information and prepare for the incoming university student.

10.1 Distance Education

Distance Education, Learning and Teaching Support (DELTS) offers over 400 courses - all of which are web-based - to over 18,000 course registrants annually. Courses are available in various disciplines in ten faculties and schools with complete undergraduate and graduate degrees available by distance including bachelors' degrees in arts (Bachelor of Arts (Police Studies)), maritime studies (Bachelor of Maritime Studies), nursing (Bachelor of Nursing (Post-RN)), and technology (Bachelor of Technology); masters' degrees are offered in education (Master of Education (Information Technology)), Master of Education (Post-Secondary)), human kinetics and recreation (Master of Physical Education), nursing (Master of Nursing), maritime management (Master of Maritime Management), technology management (Master of Technology Management (Engineering/Applied Science Technology)), Master of Technology Management (Aquaculture)), and marine studies (Master of Marine Studies (Fisheries Resource Management)). Courses are delivered via the Internet, however, some courses include print materials (Le. manual, readings, textbooks), CD/video/DVD programs and web conferencing. For a comprehensive listing of all programs offered completely or partially online visit www.delts.mun.ca.

10.2 Student Service and Delivery

DELTS' Student Service and Delivery model utilizes a 1-1-1 approach; one response to one inquiry by one staff representative. This model incorporates a hands-on approach with a self-service website which provides the self-directed distance student with access to relevant and important information during off-peak hours. This system effectively places specific information, such as course materials, in the hands of students thereby reducing wait times and allowing for effective communication with students on specific matters.

Further information on distance education programs may be obtained by telephone to (709) 864-8700, or toll free to (866) 435-1396, or

by fax to (709) 864-6783, or through the website at www.delts.mun.ca.

10.3 Course Development

As an academic support unit, DELTS works in coordination with Memorial University of Newfoundland's faculties and schools to identify and develop new distance courses and programs. Design and development professionals are paired with content experts in the respective faculties and schools to develop, manage and deliver the University's distance education programs.

In all its functions, DELTS encourages and supports innovative teaching practices through the application of instructional technologies in both on-campus teaching and distance education. A wide range of professional services in video production, multimedia development and classroom technology aim to provide faculty with pedagogical enhancements and ultimately increase student engagement.

For course development inquiries telephone (709) 864-8700; for media services inquires telephone (709) 864-4061; for classroom technology inquiries telephone (709) 864-7574.

10.4 Instructional Development Office

DELTS Instructional Development provides support to the University's faculty members and graduate students in the enhancement of their teaching knowledge and skills. The team espouses a collaborative, responsive, and pragmatic approach to developing services and programs related to teaching and learning.

Among the services provided are professional development workshops and seminars, programs for the teaching development of graduate students, and individual and small group consultations. Support is given for awards applications and other activities and initiatives that recognize the importance of university teaching. A resource centre offers a collection of books, journals, newsletters, and video programs about instruction.

Further information on instructional development services may be obtained by telephone to (709) 864-3028, or by fax to (709) 864-4635, or by email to instrdev@mun.ca.

11 Special Divisions and Separately Incorporated Entities

11.1 Atlantic Canada Venture Gateway

www.busi.mun.ca/gateway

Director

Genge, D.

Associate Director, Client Services

Greene, B.

Manager, Business Relations

Manning, E.

Coordinator, Finance and Administration

Paul, K.

The Atlantic Canada Venture Gateway (Gateway) is an outreach initiative of the Faculty of Business Administration. Gateway was officially launched in October 2009 and offers two main programs, an investment readiness program and an investor partnering program.

The investment readiness program prepares Atlantic Canadian technology firms to attract private equity or venture capital. Eligible clients work with Gateway management as well as a network of university, government and industry partners on issues such as corporate strategy, the preparation of investment proposals, and due diligence readiness.

The investor partnering program supports clients seeking strategic investment from international business partners. Gateway and the Higher Colleges of Technology's Dubai Men's College (DMC) in the United Arab Emirates jointly offer this program. Clients gain insight and guidance from DMC's senior advisors who provide strategic guidance and match clients with prospective investors and business partners in the Middle East region.

Specialized training programs and ongoing advisory support are also provided.

Gateway is located on the fourth floor of the Faculty of Business Administration alongside the Gardiner Centre. Further information can be obtained by contacting the Atlantic Canada Venture Gateway by telephone at (709) 864-4088 or through the website at www.busi.mun.ca/gateway.

11.2 Canadian Centre for Fisheries Innovation (CCFI)

www.ccfi.ca/

Board of Directors

Gregory, G. (Chair), Fisheries Consultant, St. John's, NL
 Abrahams, Dr. M., Faculty of Science, Memorial University of Newfoundland
 Bonnell, C., School of Fisheries, Marine Institute
 Butler, R., Cooke Aquaculture, St. George, NB
 Chidley, G., Harvester, Renews, NL
 Lewis, D., Government of Newfoundland and Labrador, St. John's, NL
 Linstead, G., Labrador Fishermen's Union Shrimp Co. Ltd., Lance au Loup, NL
 McGuinness, P., Fisheries Council of Canada, Ottawa, ON
 Miller, A., Open Ocean Systems, Saint John, NB
 Penney, C., Clearwater Seafood Ltd., Bedford, NS
 Pryor M., Newfoundland Aquaculture Industry Association, St. John's, NL
 Stewart, S., Confederation Cove Mussel Co., Borden-Carlton, PE
 Sullivan, B., Ocean Choice PEI, Souris, PE
 Thompson, G., Fundy North Fishermen's Association, Dipper Harbour, NB
 Verge, R., Canadian Centre for Fisheries Innovation, St. John's, NL
 Whyatt, S., Harvester, St. John's, NL

Management and Administrative Staff**Managing Director**

Verge, R., B.Eng. *NSTC*, M.B.A. *York*, P.Eng., CA, CMC

Executive Assistant

Horan, C., B.A. *Memorial*

Industrial Liaison Officer

MacNeil, S., B.Sc. *Memorial*, Adv. Dip *Marine Institute*

Industrial Liaison Officer

Chapman, A., B.Comm., *Memorial*

Secretarial Officer

Brophy, A.

Located at the Fisheries and Marine Institute, the Canadian Centre for Fisheries Innovation is owned by Memorial University of Newfoundland. The Centre provides scientific research and technology services to the fishing industry. Working closely with the faculty and staff of the region's universities and technical institutes, the Centre provides expert assistance in the areas of aquaculture, harvesting and processing, with the aim of enhancing the industry's productivity and profitability. CCFI's activities also include resource conservation research, equipment development and marine biotechnology. The Centre's services are available to anyone in the fishery or aquaculture industry who wishes to overcome obstacles or meet opportunities through science and technology.

CCFI is an organization structured to meet the needs of the industry quickly and efficiently. The Industrial Liaison Officers collaborate directly with clients to develop and execute industrially relevant research and development projects.

Mandate

The organization works with industry clients to identify needs. It then collaborates with scientific and technical faculty and staff to devise solutions to meet those needs. CCFI works to ensure that the initiatives are organized, on time and directed to address the specific needs of the industry clients. The Centre also funds these projects, when required.

The Centre's research and development undertakings cover all areas of importance to the fishery and aquaculture industry:

1. Environmentally Sustainable Harvesting
2. Energy Efficiency
3. Utilization of Fish Wastes
4. Resource Assessment and Surveys
5. Improved and More Efficient Fishing Platforms
6. Human Resource/Technology Applications
7. Alternative Fish and Shellfish Species for Aquaculture
8. Efficiency and Profitability in Aquaculture
9. Resolving Environmental Issues in Aquaculture

With strong representation from industry, the Board of Directors oversees the direction and mandate of the Centre to ensure that its work is always relevant to the needs of the fishery.

11.3 C-CORE

www.c-core.ca/

Board of Directors

Oake, D., (Chair), President, Invenio Consulting Inc.

MacLeod, M., (Vice-Chair), Vice-President, Atlantic Canada, Chevron Canada Ltd.

Alcock, D., President, Dispute Resolutions

Burke, G., East Coast Commercial & Business Development Manager, Suncor Energy Inc.

Burse, T., Executive Director, Corporate Services, Council of Canadian Academies

Eidsnes, J., Engineering Director, Norway, Subsea 7 Forus

Gosine, Dr. R., Associate Vice-President (Research), Collaborations and Partnerships, Memorial University of Newfoundland

Keating, J., Vice-President, Oil & Gas, Nalcor Energy

McClosky, P., Vice-President, Atlantic Region, Husky Energy

McDonald, P., Executive Vice-President & CFO, Stratos Global Corporation

Quaicoe, Dr. J., Professor, Faculty of Engineering and Applied Science, Memorial University of Newfoundland

Randell, Dr. C., President & CEO, C-CORE

Sacuta, P., Operations Manager, Exxon Mobil Canada East

Wilson, S., Director, Commercial Affiliated Pipelines, TransCanada Pipelines VP, Commercial Operations, TC Pipelines LP GM, TransQuebec and Maritime Pipelines Inc.

Officers of the Corporation

Randell, C.J., B.Eng. *Lakehead*, M.A.Sc., Ph.D. *Victoria*, P.Eng.; President and Chief Executive Officer

Kennedy, S.C., B.Comm., C.M.A. *Memorial*, Vice-President, Corporate Services

Phillips, R., B.Sc. *Bristol*, M.Phil., Ph.D. *Cambridge*, P.Eng.; Cross appointment with Faculty of Engineering and Applied Science

Power, D., M.Eng., P.Eng; Vice-President, Remote Sensing

Healey, R., Corporate Secretary

Management Team

Adlakha, P., B.Sc.Eng. *Nova Scotia Technical College*, P.Eng.

Brown, M., M.Sc. Eng. *University of Alberta*, P.Eng.

Kennedy, S., B.Comm. *Memorial*, CMA

Murrin, D., Ph.D. Eng. *Memorial*, P.Eng.

Power, D., B.Eng., M.Eng. *Memorial*, P.Eng.

C-CORE is a separately incorporated research and development corporation of Memorial University of Newfoundland that creates value in the private and public sectors by undertaking applied research and development, generating knowledge, developing technology solutions and driving innovation.

Established in 1975 as the Centre for Cold Ocean Resource Engineering to address challenges facing oil & gas development offshore Newfoundland & Labrador and other ice-prone regions, C-CORE is now a multi-disciplinary R&D organization with world-leading capability in:

1. Remote Sensing
2. Ice Engineering
3. Geotechnical Engineering

With unparalleled harsh environment expertise, C-CORE is active on every continent, providing research-based advisory services and technology solutions to national and international clients in the natural resource, energy, security and transportation sectors.

As a not-for-profit entity, C-CORE has the ability to focus on long-term value by re-investing revenues from contract projects into new research, equipment and competence development, continuously growing capacity and capability. Throughout the past generation, C-CORE has supported over 1000 undergraduate, graduate and post-doctoral students on their path to become the highly qualified personnel needed to drive global innovation, and has served as an incubator for 18 new technology companies.

Headquartered in St John's, NL, with offices in Ottawa, ON; Halifax, NS and Calgary, AB, C-CORE maintains a close collaborative relationship with Memorial University of Newfoundland, sharing and augmenting its extensive facilities, diverse academic expertise and \$100 million research portfolio.

From a staff of more than 80 scientists, engineers and other professionals, project teams are assembled based on client need, drawing on internal expertise across disciplines, as well as national/international academic, institutional and corporate partnerships, in order to support increasingly safe and sustainable operations in challenging environments around the globe.

C-CORE's in-house facilities include mechanical, electrical and soils laboratories; high-security high-capacity computing facilities; and a 5.5m-radius, 200G payload capacity Actidyne centrifuge (the largest in Canada and the only one in North America designed to model cold region phenomena), with adjoining model preparation laboratory and earthquake simulator; mechanical, electrical and soils laboratories. C-CORE also holds an NSERC Major Facilities Access (MFA) to support Canadian academic research.

C-CORE hosts two major research centres:

1. CARD (Centre for Arctic Resource Development) is a centre for medium to long term research and development aimed at advancing safe, responsible and cost-effective development of hydrocarbon resources in Arctic and other ice-prone regions.
2. LOOKNorth (Leading Operational Observations and Knowledge for the North) is a federally designated Centre of Excellence for Commercialization and Research (CECR) dedicated to validating and commercializing monitoring technologies that support safe and sustainable development of Northern natural resources.

11.4 Centre for Collaborative Health Professional Education

www.med.mun.ca/cchpe/home.aspx

Director

Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*; Associate Professor; Joint appointment University Counselling Centre and Community Health and Humanities, Faculty of Medicine; Cross appointment Department of Psychology

Academic Staff

Curran, V.R., B.A. *Memorial*, Dip.Ad.Ed. *St. Francis Xavier*, M.Ed. *Dalhousie*, Post Grad Cert. *British Columbia*, Ph.D. *Guelph*; Professor of Medical Education, Faculty of Medicine, Cross appointment with Faculty of Education

Sharpe, D.B., Cert.Ed. *Loughborough College*, B.Ed., M.Ed. *Alberta*, Ph.D. *Texas A and M*; Professor, Faculty of Education

Faculty Scholars

Callanan, T., B.Sc., M.D. *Memorial*, Dip.Psych. *McGill*, FRCPC; Member, Canadian Psychoanalytic Society; Associate Professor and Chair of Psychiatry, Faculty of Medicine; Cross Appointed to Counselling Centre

Hardy Cox, D., B.S.W. *Memorial*, M.S.W. *Carleton*, Ed.D. *Maine*; Associate Professor, School of Social Work; Cross appointment with Faculty of Education

Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*; Associate Professor; Joint appointment University Counselling Centre and Community Health and Humanities, Faculty of Medicine; Director

Kearney, A., B.N., Ph.D. *Memorial*, M.H.Sc. *Toronto*, R.N.; Adjunct Professor, Dalhousie University 2007-2012; Associate Professor, Joint Appointment School of Nursing and Community Health and Humanities, Faculty of Medicine

Sclater, A., B.Sc. *Waterloo*, M.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC; Professor and Chair of Medicine, Faculty of Medicine

Snow, N., B.N., M.N. *Memorial*, C.P.M.H.N.©; Faculty, Centre for Nursing Studies

Sullivan, M., B.A. *York*, M.S.W. *Carleton*, Ph.D. *Toronto*; Associate Professor, School of Social Work

Staff

Kirby, B., Interprofessional Education Project Manager

Silver, S., Administrative Assistant

The Centre was established in September 1999 in response to a growing emphasis on interprofessional health care. Centre oversight is provided through a Governing Council comprising: the Deans of the Faculties of Education and Medicine and the Schools of Human Kinetics and Recreation, Nursing, Pharmacy and Social Work; the Director of the Counselling Centre; or their representatives.

The Centre's mission is to enhance education in the health and social care professions through research and development in collaborative, interprofessional educational programming. Key activities of the Centre include:

1. promoting, developing, facilitating and coordinating collaborative, interprofessional educational programs;
2. providing expertise for enhancing the design, delivery, and evaluation of educational programs;
3. promoting education-related training through the organization of educational development opportunities for faculty members;
4. developing research projects and supporting collaborative research in health professional education and interprofessional practice; and
5. promoting health professional education as an academic pursuit.

All members of the University community including faculty, staff, and students are invited and encouraged to be engaged in the activities of the Centre. Academic Staff Members may hold an appointment as either a Faculty Scholar or Faculty Associate of the Centre. Faculty Scholars are appointed by the Governing Council on the recommendation of the respective Dean or Director based on their active engagement in academic development and scholarly activity related to the field of interprofessional collaboration and education. Faculty Associates actively participate in curriculum development or instruction of interprofessional education programs coordinated by the Centre. They are reviewed and approved by the Governing Council on an annual basis.

Further information may be obtained by contacting the Centre in writing to the Centre for Collaborative Health Professional Education,

Memorial University of Newfoundland, Health Sciences Centre H2901, St. John's, NL Canada, A1B 3V6, or by telephone at (709) 777-6912, or by fax at (709) 777-6576, or through the website at www.med.mun.ca/cchpe/home.aspx.

11.5 Centre for Earth Resources Research (CERR)

Director

Hanchar, J.M., B.S. *Memphis*, M.S. *Vanderbilt*, Ph.D. *Rensselaer Polytechnic Institute*

Research Group

The Centre draws on the research expertise of faculty and research staff members in the Department of Earth Sciences as well as other specialists inside and external to the University. For a complete listing of faculty, see **Earth Sciences** entry.

Scope and Objectives

The CERR was established in 1983 to provide for the co-ordination and promotion of earth resources research and associated work related to the origin, discovery, development, exploitation, and environmental aspects of earth resources. The Centre promotes, initiates, and co-ordinates research within the earth resources disciplines on the national and international scenes. Researchers interact, when appropriate, with the industrial and government sectors and introduce other organizations to the potential benefits of further research and development in earth resources. The special facilities of the Centre complement the development of graduate and undergraduate programs in earth sciences and related disciplines at Memorial University of Newfoundland. A further function of the Centre is to contribute to the training of people competent in solving earth resources problems and to encourage personnel exchanges with industry and government. The Alexander Murray Building houses the Centre, and has laboratories for teaching and basic and applied research.

Organization

The Centre is an integral part of the Department of Earth Sciences. The active research of faculty members contributes to programs in the Centre. Increasing collaboration is under way with government and industry in research projects that emphasize earth resources. The work of the Centre addresses problems and opportunities related to mineral resources, petroleum resources, exploration technology, environmental geoscience, and generic research. The Centre works closely with other local, national, and international research institutes. CERR hosts the geoscience component of the University's Oil and Gas Development Partnership.

11.6 Centre for Material Culture Studies

Advisory Committee

Dean of Arts, Chair

Dick, J., Government of Newfoundland and Labrador

Ferguson, M., The Rooms Provincial Museum

Jarvis, D., Heritage Foundation of Newfoundland and Labrador

Lovelace, Dr. M., Folklore

Director

Pocius, Dr. G.L., Folklore

The Centre for Material Culture Studies was established in 1988 to initiate, promote, and sponsor research on material culture within both the University and the general community. The Centre acts as a multidisciplinary forum for Memorial University of Newfoundland faculty members as well as visiting researchers from other institutions, including government agencies. The Centre houses a wide range of visual and documentary resources relating to material culture. Since 2008, the Centre has also been involved with the Province of Newfoundland and Labrador's work on Intangible Cultural Heritage, facilitating the provincial ICH Inventory.

11.7 Office of Collaborations and Partnerships (OCP)

www.mun.ca/research/ocp/

Director

Miller, D., B.Sc. (Hons.), M.Sc., MCIC *Memorial*; Winner of the President's Award for Exemplary Service, 2005

Coordinators, Research Development

Carew, J.

White, P.

Manager, Administration and Finance

Samson, J., B. Voc. Ed. *Memorial*

Manager, Operations, CREAT Network

Tubrett, M., B.Sc.(Hons) *Memorial*

Manager, Operations, Major Research Partnerships

Kielley, M., B.A., B.Comm., M.E.R. *Memorial*

The Office of Collaborations and Partnerships (OCP) stems from a consolidation of units reporting to the Office of the Vice-President (Research). The Core Research Equipment and Instrument Training Network (CREAIT) and Major Research Partnerships (MRP) are divisions of the Office of Collaborations and Partnerships.

Institutional applications and reports to programs offered through the Canada Foundation for Innovation (CFI), the Canada Research Chairs (CRC), the Atlantic Innovation Fund (AIF), and the Research & Development Corporation (RDC) of Newfoundland and Labrador are administered through the Office of Collaborations and Partnerships; which serves as the institutional point of contact with CFI, the CRC secretariat and RDC.

MRP is responsible for financial and administrative support for Memorial University of Newfoundland's existing major, AIF-funded research projects and other new collaborative research projects.

The pan-university Core Research Equipment and Instrument Training Network (CREAIT) is designed to maximize the impact of Memorial University of Newfoundland's institutional investments in research through enhanced access to and utilization of major research equipment. CREAT consists of eight interconnected satellites across the St. John's campus and is responsible for maintaining and operating thematic clusters of multi-user equipment.

Individuals seeking more information about Office of Collaborations and Partnerships, should contact the Director by emailing ocp@mun.ca, by telephone at (709) 864-4791, by fax (709) 864-6193 or in-person at the Inco Innovation Centre, room IIC1001, or through the website at www.mun.ca/research/ocp/.

11.8 Folklore and Language Archive (MUNFLA)

www.mun.ca/folklore/munfla

Chair, Advisory Committee

Dean of Arts

Chair, Management Committee

Smith, Dr. P.

Archivist

Fulton, P.

Archival Assistant

Cox, P.

Publications Assistant

O'Keefe, R.

Folklore Transcriber

Reddy, B.

Honorary Research Associate (Language and Folklore)

Widdowson, Dr. J.D.A.

Memorial University of Newfoundland Folklore and Language Archive (MUNFLA) is Canada's foremost repository for recorded and collected items of Newfoundland and Labrador folklore, folklife, language, oral history and popular culture. Established in 1968, it is one of the oldest archives at Memorial University of Newfoundland. The Archive is an integral part of the teaching and research activities of the Department of Folklore at the graduate and undergraduate levels. It is a member of the Association of Newfoundland and Labrador Archives and the Canadian Council of Archives.

The Archive contains diverse materials, donated by more than 11,000 contributors, covering topics such as custom and belief, childlore, material culture and work techniques, song, music, dance, tale, legend, personal experience narrative, poetry, riddles and conundrums, proverbs and foodways. Special holdings include the field notebooks of Maud Karpeles who compiled *Folk Songs from Newfoundland* (1971); E. R. Seary's collection of research materials on family names; the folklore collections of Herbert Halpert and John Widdowson; the extensive Newfoundland and Labrador song collections of Kenneth S. Goldstein and MacEdward Leach; Lawrence R. Smith's linguistic materials on Labrador Inuktitut and Southern Avalon dialect; 12,000 Canadian Broadcast Corporation recordings; the Lorne Russwurm international collection of country music; and Franco-NL materials from the Centre d'Etudes Franco-Terreneuviennes. Overall, the collection contains 40,000 audio tape recordings, 4,000 commercial recordings, 20,000 photographs, 2,000 printed documents, 16,000 manuscripts, and 800 video tape recordings.

Further information can be obtained by writing Memorial University of Newfoundland Folklore and Language Archive, Department of Folklore, ED-4038, G. A. Hickman Building, St. John's, NL Canada A1B 3X8, or by e-mail at munfla@mun.ca, or by telephone at (709) 864-8401, or by fax at (709) 864-4718, or through the website at www.mun.ca/folklore/munfla.

11.9 Gardiner Centre

www.mun.ca/gardinercentre

Director

Hurley, B., B.Comm.(Hons.) *Memorial*, M.B.A. *Dalhousie*, C.M.C.

Associate Director, Business Development

Morrissey, W., B.A.(Ed.), M.Ed. *Memorial*

Associate Director, Finance and Administration

Gardiner, S., B.Comm.(Hons.) *Queen's*, M.B.A. *Memorial*, C.M.A.(Newfoundland)

Client Services Administrative Coordinator

Kelly, M., B.A. *Memorial*

Client Service Specialist

Tiller, K.

Manager of Programs

Flynn, A., B.Comm (Co-op), M.B.A. *Memorial*

Program Developer

Arcscott, S., B.Comm.(Co-op.) *Memorial*

Training Advisor

Collins, J., Cert. Business *Memorial*

The Gardiner Centre was formed in August 2008 by the amalgamation of the Centre for Management Development and the P.J. Gardiner Institute, both of which have served Newfoundland and Labrador individuals and organizations for close to 30 years.

As the outreach unit of Memorial University of Newfoundland's Faculty of Business Administration, the Gardiner Centre is focused on developing management and leadership skills, expanding business knowledge and facilitating organizational growth. Whether clients are existing or aspiring supervisors, managers, executives or entrepreneurs, the Gardiner Centre has programs to advance their business and leadership knowledge and skills. Through training, events or solutions, the Gardiner Centre connects clients with the expertise and experience of the Faculty's instructors and other business leaders and educators.

The Gardiner Centre's facilities, located on the fourth floor of the Faculty of Business Administration building, provide an interactive adult learning environment which is designed to provide clients with everything they need to ensure a relaxing, retreat-like atmosphere, conducive to learning.

Further information may be obtained by contacting the Gardiner Centre by telephone at (709) 864-7977 or through the website at www.mun.ca/gardinercentre.

11.10 GENESIS Group Inc.

www.genesis.mun.ca/

President and CEO

King, D.J., B. Comm. *Memorial*, M.B.A. *McMaster*, CA

GENESIS Group Inc. is a separately incorporated entity of Memorial University of Newfoundland and is governed by a board of directors representing industry, academia, and government. It serves the whole university community and facilitates the linkage to the business community. The Genesis Group is located on the third floor of the Inco Innovation Centre. The Genesis Research division, as its primary goal, identifies and commercializes promising technologies arising from research at the University. Areas of expertise include Biotechnology and Medicine, Physical Sciences and Engineering and Information Technology and Communications. Key industrial sectors include ocean technology mining and oil and gas. In addition to its central role of transferring technology to the private sector, the research group assists the province's small and medium-size businesses to access the vast physical and human resources of the University. Genesis Research focuses on new technologies, processes, and services and seeks to enhance, improve, and/or diversify the capacity of existing industry. The Genesis Centre division is a support network to help knowledge-based businesses/entrepreneurs create high-growth enterprises. The Centre mobilizes the province's business community and a network of world class mentors to help the entrepreneurs develop comprehensive business plans, raise equity capital and secure global market access. Genesis Bio-labs, located on Mt. Scio Road, is a wet lab facility to support start-ups in the biotechnology sector.

Further information may be obtained by contacting the GENESIS Group Inc. by telephone at (709) 864-4527 or through the website at www.genesis.mun.ca/.

11.11 Harris Centre

www.mun.ca/harriscentre/

Director

Greenwood, R., B.A.(Hons.) *Memorial*, M.A. *York*, Ph.D. *Warwick*

Associate Director

Clair, M., M.P., M.B.A. *Memorial*

Operations Manager

Adams Warburton, J., Dip. AIT *Information Technology Institute*

Communications Coordinator

Cohoe, R. B.A.(Hons.) *Western*, M.A. *Memorial*

Knowledge Mobilization Coordinator

Follett, K., B.A. *Memorial*

Knowledge Mobilization Manager

Fürst, B., B.A. *Mount Royal*, Pg. Dip. *Institute of Social Science, The Hague*

Library Resources Coordinator

Rahal, P., B.A. *Memorial*, B.L.S. *McGill*, M.L.I.S. *Western*

Professional Associate

Vardy, D., B.A.(Hons.), B.Comm. *Memorial*, M.A. *University of Toronto*, M.A. *Princeton University*, Honorary LL.D. *Memorial*

Yaffle Projects Coordinator

Duff, J., B. Comm. *Memorial*

The Leslie Harris Centre of Regional Policy and Development is tasked with coordinating and facilitating the University's educational, research and outreach activities in the areas of regional policy and development. The Centre works with all faculties and departments within the University and serves as a reliable point of access for all stakeholders seeking to work with the University in activities related to regional policy and development. The Harris Centre interprets regional as all communities and regions in Newfoundland and Labrador and policy and development includes all issues that affect the ability of communities and regions to be prosperous and sustainable. The Harris Centre seeks to connect faculty, staff and students with opportunity for practical application in Newfoundland and Labrador while representing the integrity and independence of University research, teaching and outreach.

Further information may be obtained by contacting The Harris Centre by telephone at (709) 864-3143, by e-mail at harriscentre@mun.ca, or through the website at www.mun.ca/harriscentre/.

The Harris Centre is home to Memorial University of Newfoundland's online connecting tool, Yaffle. Further information may be obtained at www.yaffle.ca.

11.12 Health Research Unit

www.med.mun.ca/hru/

Members

Gadag, V., Director, HRU, B.Sc. *Karnatak*, M.Phil., Ph.D. *Poona*, Biostatistics

Allison, D., M.D. *Queen's*, FRCPC, Community Health

Audas, R., B.B.A. *New Brunswick*, M.B.A., M.A. *Dalhousie*, Ph.D. *Wales*, Health Statistics and Economics

Bavington, B., B.A. *Graceland College*, M.D. *Toronto*, DTMH *Liverpool*, MPH *Johns Hopkins*, FACPM, FRCPC, Community Health

Beausoleil, N., B.A. *Laval*, M.A., Ph.D. *UCLA*, Social Science and Health

Buehler, S., AB *Illinois College*, M.A. *Indiana*, Ph.D. *Memorial*, Epidemiology

Donovan, C., B.Med.Sc., M.D. *Memorial*, MHSc. *British Columbia*, Public Health

Gustafson, D.L., RN(PHRSN), B.A. *McMaster*, M.Ed. *Brock*, Ph.D. *Toronto*, Social Science and Health

Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*

Kaposy, C., B.A. *McMaster*, M.A. *Concordia*, Ph.D. *SUNY Stony Brook*, Health Care Ethics

Maddalena, V., B.N. MHSA, Ph.D. *Dalhousie*

Mathews, M., B.A., B.Sc. *Calgary*, MHSA *Alberta*, Ph.D. *Toronto*, Health Policy and Health Services

Mulay, S., B.Sc. *Delhi, India*, Ph.D. *McGill*

Pullman, D., B.Ed. *Western Ontario*, M.A., Ph.D. *Waterloo*, Medical Ethics

Roebathan, B.V., B.Sc. *Memorial*, M.Sc. *Saskatchewan*, Ph.D. *Memorial*, R.Dt., Community Nutrition

Sarkar, A., M.B.B.S. *Burdwan*, M.C.H., Ph.D. *JNU, New Delhi*, M.E.S. *Queen's*, Environmental and Occupational Health
Traverso, M., B.A.(Hons.) *Universidad de Guayaquil, Ecuador*, Ph.D. *Universidad Complutense de Madrid, Spain*
Valcour, J., B.Sc., M.Sc., Ph.D. *Guelph*, Epidemiology
Wang, P., M.D., M.P.H. *Tianjin Medical University*, Ph.D. *University of Toronto*, Epidemiology
West, R., M.Sc., Ph.D. *McGill*, Epidemiology
Yi, Y., B.Sc. *Hunan Normal University, China*, M.Sc., Ph.D. *Manitoba*
Young, W., B.Sc. *Trent*, M.A. *Queen's*, Ph.D. *Toronto*

Research Support

Ryan, E.A., Manager, HRU, B.Sc.(Hons.) *Memorial*, M.Sc. *Queen's*
Heath-King, S., B.Sc. *Memorial*, Database and Computer Support

The Health Research Unit was established in 1991 as a unit of the Faculty of Medicine within the Division of Community Health. It makes available the professional skills, expertise and information resources of the Division to other faculty, government departments, non-government agencies and organizations, and the community.

The purpose of the Health Research Unit is to improve the health of the Newfoundland and Labrador community-at-large through research focussed on the prevention of disease and the protection and promotion of health.

Research Themes

1. Measurement of health status in community/workforce populations;
2. Assessment of the health care system;
3. Development and management of health information systems;
4. Design and analysis of health surveys and audits; and
5. Evaluation of health and social programs

The Health Research Unit may be contacted by telephone at (709) 777-8385 or through the website at www.med.mun.ca/hru/.

11.13 Institute of Social and Economic Research (ISER)

www.mun.ca/iser/

Board of Directors

Byrne, Dr. P., Departments of English and Folklore, Director
Cullum, Dr. L., Department of Sociology
Dunn, Dr. C., Department of Political Science
Jamieson, Dr. S., Department of French and Spanish
Lockett, Dr. C., Department of English
Vice-President (Academic)
Rankin, Dr. L., Department of Archaeology
Riggs, Mr. B., QEII Library
Simms, Dr. A., Department of Geography
Dean of Arts - *virtute officii*
Whitaker, Dr. R., Department of Anthropology

Administrative Staff

Harding, M., Administrative Staff Specialist
Browne, S., Secretary

Purpose And Mandate

The purpose of the Institute shall be to undertake, sponsor, and publish research within such disciplines and in such parts of the world as are deemed of relevance to Newfoundland and Labrador. Without limiting the generality of the above, research pertaining directly to social and economic development in Newfoundland and Labrador shall be of special importance.

Organization

The Institute is an integral part of, and not an autonomous appendage, of the University. It is so organized that all its officers serve the University in other capacities and it is ultimately responsible to the President and Board of Regents of the University. The management of its affairs is vested in an Executive Committee, while the day-to-day responsibilities are in the hands of the Director. Since September 2006, the Executive Committee has also served as the Board of Directors of the J.R. Smallwood Foundation for Newfoundland and Labrador Studies.

Fellowships

In general, ISER fellowships function to supplement and stimulate research interests of faculty and graduate students working within the research mandate of ISER. Terms and conditions of ISER fellowships may be obtained in writing to ISER, Institute of Social and Economic Research, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador, A1C 5S7, or by telephone at (709) 864-8156, or by email at iser@mun.ca, or through the website at www.mun.ca/iser/.

ISER Books

The Institute publishes research falling within the ISER mandate - more than 90 titles to date. Many of the books originate in research undertaken by ISER itself. Some notable ISER books, however, have originated outside the Institute. Authors are invited to submit completed manuscripts that fall within ISER's mandate. Further information may be obtained in writing to ISER Books, Memorial University of Newfoundland, St. John's, Newfoundland and Labrador, A1C 5S7, or by telephone at (709) 864-3453, or my email at iser-books@mun.ca, or through the website at www.mun.ca/iser/.

11.14 International Centre

www.mun.ca/international/

Director/International Liaison Officer

Knutson, S., B.Ed. *Concordia*, M.Ed. *Memorial*

Purpose And Mandate

The International Centre is in general concerned with:

1. coordinating and promoting the University's international activities, including international exchanges and programs;

2. developing and managing international activities and investigating funding sources, with particular reference to exchange programs;
3. providing program information and advice to faculty and staff and act as the central contact with the Association of Universities and Colleges in Canada (AUCC) and other similar bodies; and
4. pursuing new opportunities to develop partnerships with the private sector and other educational institutions.

Further information may be obtained by contacting the International Centre by telephone at (709) 864-4053 or through the website at www.mun.ca/international/.

11.15 International Programs Office (IPO)

www.business.mun.ca/international/

Director

Burns, M.E., B.A.(Hons.), M.A. *University of Essex*

International Program Officer (Study Abroad)

Young, M., B.Comm.(Co-op) *Memorial*

International Support Officer

Wang L., M.B.A. *Memorial*

The International Programs Office (IPO) was established in October 2008 and brings together all the international activities of the Faculty of Business Administration other than outreach or research activities under the responsibility of the Associate Dean (Academic Programs) of the Faculty. The activities previously undertaken by the Centre for International Business Studies and by the Fellow in International Business are continued in this new Office under a dedicated support unit headed by a Director of International Programs.

The IPO has direct responsibility for the development and enhancement of academic programs and curriculum including but not limited to the International Bachelor of Business Administration (i.B.B.A.), the International Business Minor, the International Business Concentration, professional accreditation (CITP) and future internationally focussed initiatives at the graduate level. The IPO also has responsibility for development and management of a global range of international mobility opportunities in the Faculty, including student exchange, the Harlow Program and other international summer schools and short programs. In addition the IPO plays a major role in recruiting international students to the Faculty and providing support to these students. These activities involve the development and management of strategic partnerships with leading international universities whereby international students may study for part of their degree in their home country.

The activities of the IPO as a whole, which also include continued facilitation of internships for recent international business graduates as well as the maintenance of close working relationships with regional government and business organisations, play a key role in building the regional and national skilled worker capacity essential for global competitiveness.

Further information may be obtained by contacting the International Programs Office by telephone at (709) 864-7659 or through the website at www.business.mun.ca/international/.

11.16 The J.R. Smallwood Foundation for Newfoundland and Labrador Studies

www.mun.ca/smallwood/

Board of Directors

Dean of Arts - *Virtute Officii*

Loomis, Dr. C., Vice-President (Research)

Byrne, Dr. P., Director

Cullum, Dr. L., Department of Sociology

Dunn, Dr. C., Department of Political Science

Gordon, Dr. K., Department of Anthropology

Lockett, Dr. C., Department of English

Riggs, Mr. B., QEII Library

Simms, Dr. A., Department of Geography

Webb, Dr. J., Department of History

Purpose And Mandate

The Smallwood Foundation was established with funds transferred in trust from the J.R. Smallwood Heritage Foundation. The Foundation administers the income from such funds for the promotion and support of research focussing on Newfoundland and Labrador. The board supports research proposals in the humanities and social sciences from both inside and outside the university community.

Organization

Effective September 1, 2006, the Executive Committee of ISER also serves as the Board of Directors of the J.R. Smallwood Foundation. In accordance with its mandate, the board awards grants to individual scholars and organizations which have clearly defined objectives and which serve to develop the academic understanding and general appreciation of the province's society, history and culture. Full details of grant categories and application procedures are available on the Foundation's web site at www.mun.ca/smallwood/.

Further information may be obtained by telephone at (709) 864-8156 or in writing to The Director, J.R. Smallwood Foundation for Newfoundland and Labrador Studies, Memorial University of Newfoundland, St. John's, NL, A1C 5S7.

11.17 Labrador Institute

www.mun.ca/labradorinstitute/

Director

Chaulk, Dr. K

Associate Director

MacDonald, M.

Administrative Staff Specialist

Dickers, B.

Labrador Associate

Sparkes, Dr. R.

Program Coordinators

Pottle-Fewer, K.
Wright, J.

Purpose And Mandate

The Labrador Institute of Memorial University of Newfoundland was established by the University to stimulate, coordinate, and support major University projects and programs designed to promote the well-being of the people of Labrador and to expand the Labrador knowledge base. Its location in Happy Valley-Goose Bay affords it a perspective on regional and aboriginal needs and issues that direct the operations of the Institute. The Institute identifies opportunities in research where the capabilities of the University may enhance our knowledge of Labrador and address concerns of the community, and puts forward educational needs for continuing human resource and cultural development.

The Institute is the main contact point for the University in Labrador and maintains communications with aboriginal and community groups and the Faculties and Schools of the University to ensure that there is a timely response to research and educational opportunities.

The Institute facilitates and coordinates the activity of personnel at the University as they undertake cultural, research, and educational activities. It partners with Faculties and Schools to solicit funds for research and the delivery of educational programs, and with other social, cultural and educational institutions in Labrador. A Labrador based archive provides a reference collection of publications on Labrador and other northern regions for public use.

The Labrador Institute works with the Office of Research which acts as the agent within the University to receive and disburse Northern Scientific Training Program grants received from the Department of Indian Affairs and Northern Development. The Institute also serves as the University's representative on the Association of Canadian Universities of Northern Studies and supports the University's membership in the University of the Arctic.

The Institute is not a regulatory body but it is available to advise on the normal process of grant applications by individuals. The Institute recommends that notice or copies of such applications be filed with the Institute to obviate duplication of effort within the University. It also maintains and administers an invaluable archival collection of Labrador materials. It is the Institute's intent to collect and disseminate all pertinent copies of research conducted by or through the University.

Organization

The Director of the Labrador Institute reports to the Vice-President (Academic).

The Advisory Board, comprised of Labrador residents, has both geographic and aboriginal representation appointed by the Vice-President (Academic). The Board provides direct input from the community and offers advice on how the University can serve the needs of Labrador.

Further information may be obtained by contacting the Institute in writing to the Labrador Institute, P.O. Box 490, Station B, Happy Valley-Goose Bay, NL, A0P 1E0, or by telephone at (709) 896-6210, or by fax at (709) 896-2970.

11.18 Maritime History Archive

www.mun.ca/mha/

Chair, Board of Directors

Handcock, Dr. W.G. [Retired]

Board Members

Burton, Dr. V., Department of History
Fischer, Prof. L., Department of History
Hart, A. [Retired]
Staveley, Dr. M., Department of Geography [Retired]
Wareham, H., Archivist

In 1986 the Maritime History Archive was established as a separate unit within the Faculty of Arts as a result of reorganization of the Maritime History Group. Its functions include the acquisition, organization, and preservation of materials relating to the history of sea-based activities and societies, with a special emphasis on the North Atlantic Basin.

Since the mid-1970's the Public Record Office, London, England has transferred 22,000 ft. of original documentation in the series "Agreements on Account of Crew" for the period of 1863-1938, 1951-1976 to the Maritime History Archive. These documents represent an incomparable source for the study of the movements and manning of British Empire vessels throughout the world. Combined with collections relating to fisheries, commerce, and other sea-based activities, the crew agreements have made the Maritime History Archive an internationally known resource centre for the study of maritime history.

The Archive is housed in the Mathematics Building and is open to the public Monday through Friday, 9 a.m. to 1 p.m. and 2 p.m. to 4:00 p.m. A research service (for a fee) to undertake small research projects and answer queries pertaining to its subject area is also available.

11.19 The Maritime Studies Research Unit (MSRU)

www.mun.ca/msru/about/

Chair

Burton, V., History

Members

Baehre, R., History, Grenfell Campus
Bradley, D., Maritime History Archive
Cadigan, S., History
Dickinson, A.B., International Program
Fischer, L., History
Janzen, O., History, Grenfell Campus
Kennedy, N., History
Klein, R., Social Work
Moloney, C., Engineering
Neis, B., Sociology
Pope, P.E., Anthropology and History
Power, N., Sociology

Romkey, R., English
Walsh, V., Maritime History Archive
Wareham, H., Maritime History Archive

The Maritime Studies Research Unit (MSRU) is a research unit within the Faculty of Arts, whose purpose is to foster interdisciplinary research on maritime studies, understood as the interpretation of human behaviour in marine and coastal environments, in the past and to the present day. The Unit furthers this objective with workshops, colloquia, publications, and research projects and by providing advice and support to other units within the University. Membership in the MSRU is open to faculty and staff of Memorial University of Newfoundland with research interests in maritime studies. Other scholars with parallel interests, including graduate students in the University's Faculty of Arts, are eligible for associate membership. Currently, the MSRU has associate members in Canada, England, Nigeria, Scotland and the United States.

11.20 Memorial University of Newfoundland Botanical Garden

www.mun.ca/botgarden/

Staff

vacant, Director
Bishop, M.A., Acting Manager, Research Liaison
Boland, J.T., Research Horticulturist
Cooper, J., Gift Shop Manager/Membership Co-ordinator
Madden, A.M., Interpretation Co-ordinator
Owens, P.R., Grounds Maintenance Worker
Smith, S., Special Projects Co-ordinator/Board Liaison
Walsh, T.G., Nursery Manager
White, C.P., Head Gardener
Williams, L.J., Grounds Maintenance Foreman

Memorial University of Newfoundland Botanical Garden, Mount Scio Road, comprises ten acres of cultivated gardens and 100 acres of natural habitat that includes the 14-acre Oxen Pond. The main objectives are to undertake and provide opportunities for biological, ecological, and horticultural education and research for the University, the general public, school children and other organized groups while stimulating public interest and enjoyment of the Newfoundland and Labrador flora, fauna and environment.

An interpretative program is designed to provide information on native plants, animals, and horticulture to community groups and the general public, including a curriculum based school program. A field centre houses indoor displays, a library, a tea room, and a lecture room. Numerous interpreted nature trails are maintained through a variety of natural habitats. Cultivated areas include the rock garden, peat beds, woodland beds, cottage garden, heritage garden, wildlife garden, shade garden, vegetable garden, and herbaceous border.

Research activities include rare plant conservation, site restoration, invasive species, non-timber forest products, medicinal and ornamental plant research and development.

The Memorial University of Newfoundland Botanical Garden is available for university classes and research year-round. It is open to the public daily from May through November. Further information may be obtained through the website at www.mun.ca/botgarden/.

11.21 Newfoundland and Labrador Centre for Applied Health Research (NLCAHR)

www.nlcahr.mun.ca

Director

Bornstein, Dr. S., B.A. *Toronto*, M.A., Ph.D. *Harvard*

The Newfoundland and Labrador Centre for Applied Health Research (NLCAHR) was established in September 1999 as a joint venture of the Department of Health and Community Services, the Health Care Corporation of St. John's and Memorial University of Newfoundland. Since its inception, the Centre has provided support for applied health research in the province through its grant and awards programs, its knowledge transfer activities and its capacity development services.

NLCAHR's mission is to contribute to the effectiveness and efficiency of the health and community service system of Newfoundland and Labrador and to the physical, social, psychological health and well-being of the province's population by supporting the development and the use of applied health research in this province

The Centre's work revolves around three principal goals:

1. to help build human capacity and organizational resources for undertaking and supporting high-quality applied health research in the province;
2. to increase the amount and impact of high-quality applied health research undertaken on the priority research themes of Newfoundland and Labrador; and
3. to help increase the effective use of research evidence in the province's health and community services system.

NLCAHR fosters and supports inter-disciplinary collaboration and serves as a bridge between researchers and decision-makers in government, the provincial healthcare system and community organizations. The Centre funds health research through annual peer-reviewed research grant competitions; supports research training by awarding fellowships at the master's, doctoral, and postdoctoral levels; and runs a number of other programs to encourage and support applied health researchers in Newfoundland and Labrador. The Centre's flagship knowledge exchange program, the Contextualized Health Research Synthesis Program (CHRSP), is a collaborative effort of researchers and health system leaders that seeks to identify urgent issues involving health services and health technologies that are of pressing interest to Newfoundland and Labrador. CHRSP teams work to identify the highest quality research on these issues and to interpret it in light of the unique geographic, economic, demographic and other characteristics of this province.

The research supported by the Centre is broad in scope and includes research in the areas of health services delivery and evaluation, health economics and policy, healthcare utilization and systems, community and population health, health-related social sciences, and applied clinical research focussing on the process of delivering care rather than therapeutics or diagnostics.

Further information may be obtained by contacting the Centre in writing to the Newfoundland and Labrador Centre for Applied Health Research, Suite 300, 95 Bonaventure Avenue, St. John's, NL, A1B 2X5, or telephone at (709) 777-6993, or fax at (709) 777-6734, or e-mail at nlcahr@mun.ca, or through the website at www.nlcahr.mun.ca.

11.22 Newfoundland Quarterly

www.newfoundlandquarterly.ca

Managing Editor

Sullivan, J.

Newfoundland Quarterly Foundation Board

Chalker, M.

Hiller, J.

Hood, D.

Kachanoski, G.

Maloney, A., Honorary Life Member

O'Brien, P.

Rideout, J.

Skanes, V., Chair

Sparkes, R.

Wangersky, R.

Aspects Editors

Ritcey, J.,

White, L.

The *Newfoundland Quarterly*, a journal established in 1901, focuses on the arts, culture, history, industry and people of Newfoundland and Labrador. This journal is published by the *Newfoundland Quarterly* Foundation Board, a not-for-profit charitable foundation. Owned by Memorial University of Newfoundland, the *Newfoundland Quarterly* features contributions from the province's top writers and visual artists as well as writings by our most prominent people. Many contributors have a presence on the national and international stage. The *Newfoundland Quarterly* can be contacted by telephone at (709) 864-2426, or by email at nfq@mun.ca, or through the website at www.newfoundlandquarterly.ca.

11.23 Ocean Engineering Research Centre (OERC)

www.engr.mun.ca/oerc/index.php

Administration

Qiu, W., B.Eng., M.A.Sc. *Dalian University of Technology*, Ph.D. *Dalhousie*, P.Eng., Associate Professor, Ocean and Naval Architectural Engineering; Acting Director

Engineering Technologist

Clarke, T.

Scope And Objectives

The Ocean Engineering Research Centre (OERC) is an integral part of the Faculty of Engineering and Applied Science at Memorial University of Newfoundland and has contributed to the success of the Faculty's research and academic programs.

The overall goal of the OERC is to generate research activity that has high potential for impact. The OERC draws upon faculty expertise and its relationships with industry, other research institutes, and branches of government to create networks of people who share common goals. The scope of applied research and consulting activities carried out by members of the OERC is broad, including ocean engineering related to the offshore, marine transportation, and fishing industries. In addition to faculty experience, the OERC operates a 58 metre long towing tank with wave generation capabilities.

Organization

The St. John's marine research community is vibrant and collaborative. Within the University the Centre maintains ties with C-CORE (by joint appointments of faculty and collaborative projects), with the Ocean Science Centre and the Fisheries and Marine Institute. Similar ties are maintained with the Institute for Ocean Technology (IOT) of the National Research Council (NRC), which is located adjacent to the Faculty of Engineering and Applied Science on the University campus. The Centre collaborates with and serves various small and large private sector firms with ocean engineering interests. The Centre works with Oceanic Consulting Corporation to provide marine performance evaluation services to the world's oceans industries. An alliance between the University, NRC and Marineering Limited of St. John's, Oceanic uses the ocean engineering capabilities and facilities of the University and NRC to support clients and projects around the world.

11.24 Ocean Sciences Centre (OSC)

www.mun.ca/osc/Home/

Director

Fletcher, G.L., B.Sc. *British Columbia*, Ph.D. *California*; Professor Emeritus; Head, Department of Ocean Sciences

Facilities and Business Manager, Dr. Joe Brown Aquatic Research Building (JBARB)

Boyce D., B.A., M.Sc. *Memorial*

The Ocean Sciences Centre (OSC) is a major facility for marine research on the Atlantic coast, and is one of Canada's largest marine laboratories. It houses the Department of Ocean Sciences, the Joe Brown Aquatic Research Building and the soon to be completed Cold-ocean Deep-sea Research Facility. The OSC provides Canadian and international scientists and students access to the flora and fauna of the northwest Atlantic Ocean and is uniquely suited for shore-based studies of cold-ocean processes and subarctic, Arctic and deep-sea organisms. The facility provides all the necessary elements to conduct first-rate marine science, including high quality seawater, equipment to collect and maintain aquatic organisms, boats and vehicles to access field sites, laboratory space with running seawater, cutting-edge analytical and molecular biological instruments, and support staff. A strategic goal of the OSC is to carry out world-class research that focuses on organisms and processes in cold oceans, and to provide high quality educational and training opportunities, particularly at the graduate level.

Located at Logy Bay, 10 km from the St. John's campus, the OSC has an excellent unpolluted sea water supply that is the lifeline of the centre. There are 38 laboratories of varying size, 24 of which have flowing seawater and 14 of which are dry and house instruments for analytical chemistry, biochemistry, physiology, histology, molecular biology (genetics and genomics) and microscopy. There are eight cold rooms for controlled physiological experiments and common-use rooms for fish sampling, microscopy/ image analysis, high-speed centrifugation, radioisotope analyses, histological preparation and histochemistry, and molecular biology. Field Services maintains a variety of Scuba gear for coldwater year-round diving, benthic trawls and drags, seines, plankton nets, Niskin bottles, CTD, underwater

video camera and a portable air compressor and generator. The unit operates a 4 m zodiac, 7 m Boston Whaler and 5 ton multi-purpose vehicle with aeration and recirculating seawater holding tanks (2500 L) suitable for transporting live specimens long distances.

The common use Image and Data Analysis Facility provides for image acquisition/analysis using analogue and digital media, microscopy, data backup and video production. There are also well equipped machining, woodworking, plumbing, and electronics workshops with dedicated personnel.

The Dr. Joe Brown Aquatic Research Building (JBARB) provides state-of-the-art facilities and world class staff with expertise to support research, training, pre-commercial production, and small-scale commercial trials in marine aquaculture. A critical component of the 1400 square meters facility is a seawater system designed to deliver high quality, temperature controlled, flow through water. Separate tanks and rooms are available for broodstock conditioning, paired mating, hatchery rearing, first feeding/nursery operations, grow-out and physiological investigations on marine finfish. The JBARB carries out research in collaboration with Memorial University of Newfoundland, and government and industry partners. The aquaculture potential of various finfish species (Atlantic cod, Atlantic salmon, Arctic char, Steelhead trout, cunners, and smaller flounder species) is being evaluated through the study of broodstock biology, physiology and genomics, and the development of larval rearing techniques.

Research Themes

physiology, biochemistry and molecular biology

marine biotechnology

biological and chemical oceanography

behavioural and population ecology

aquaculture and fisheries

11.25 The Works/Memorial University Recreation Complex Incorporated (MURC)

www.theworksonline.ca

Board of Directors

Thistle, B., Chairperson

Donovan, M., Vice Chair

Other members of the volunteer Board include representatives from the student body, the University, and the community at large.

Staff

Richardson, A., Director/General Manager

Beson, M., Manager of Finance

Coffey, K., Manager of Maintenance - Aquarena

Kearsey, J., Manager of Maintenance - Field House

Neil, C., Manager of Fitness and Student Services

O'Connor, J., Manager of Aquatics/Recreation

The Works

The Works is a separately incorporated entity with a volunteer Board of Directors. The Works operates the Field House, Aquarena and other recreation facilities on the St. John's campus. The facilities offer a variety of fitness, aquatics and recreation programs for all ages. The Works offers services for members of the University, including students, faculty and staff and also the community at large.

Further information may be obtained by contacting The Works by telephone at the Field House (709) 864-4422, or the Aquarena at (709) 864-3798, or through the website at www.theworksonline.ca.

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

Archived Previous Calendar
Current University Calendar available at:
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UNIVERSITY REGULATIONS

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1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Fees and Charges

The fees and charges indicated herein are as of the date of printing. The University reserves the right to make changes to the regulations, fees and charges listed below. Any questions concerning fees and charges for the Cashier's Office in St. John's should be directed in writing to the Cashier's Office, Memorial University of Newfoundland, Arts and Administration Building, A1023, St. John's, NL, A1C 5S7, or by e-mail at cashiers@mun.ca, or by telephone at (709) 864-8228, or through the website at www.mun.ca/finance/Welcome/. Any questions concerning fees and charges for the Bursar's Office in Corner Brook should be directed in writing to the Bursar's Office, Grenfell Campus, University Drive, Corner Brook, NL, A2H 6P9, or by telephone at (709) 637-6286, or through the website at www.swgc.mun.ca/bursar/Pages/default.aspx.

2.1 Information Governing Payment of Fees and Charges

2.1.1 General Regulations

1. Tuition fees, residence fees, student union fees and health/dental insurance are due once a student registers regardless of the method of registration, and must be paid by the fee deadline to avoid a late payment penalty.
2. Students who are using a scholarship, bursary, Canada Student Loan, or other award for the payment of fees may be permitted to have their tuition fees outstanding until they have received the award or Canada Student Loan.

2.1.2 Methods of Payment

1. Cash/Debit card: must be paid in person at the Cashier's Office in St. John's or the Bursar's Office in Corner Brook.
2. Cheque: may be mailed, or delivered in person, to the Cashier's Office in St. John's or Bursar's Office in Corner Brook, or placed in the night deposit slot at the Cashier's Office in St. John's. A dishonoured charge will be made for each cheque tendered to the University and not honoured by the bank. A student with a dishonoured cheque record must pay fees by cash, certified cheque or money order.
 - Dishonoured cheque charge: \$25
3. Credit card: Visa and MasterCard are the only accepted cards. Payment using this method should be done via the web at www.mun.ca.
4. Payroll deductions: graduate students receiving funding through the University payroll system may elect to pay their tuition and other charges by payroll deduction. The policy and form for payroll deductions are available at the School of Graduate Studies, the Cashier's Office, and at www.mun.ca.
5. Student Aid: students paying fees from a Canada Student Loan will have the amount owing signed out automatically from their loans.
6. Telephone and on-line banking: information on the use of telephone or on-line banking systems can be obtained from local branches of banks.
7. Tuition voucher: students receiving a tuition voucher must present the tuition voucher and pay the balance of their fees to the Cashier's Office by the published deadlines to avoid being assessed a late payment fee.

2.1.3 Penalties for Noncompliance with Payment of Fees and Charges

1. Students who, without approval, pay their fees later than the deadlines specified in the **University Diary** will be assessed a late payment fee.
 - Late payment fee (assessed by the Director of Financial and Administrative Services): Maximum of \$75
2. Students who have not paid all fees or arranged for fee payment with the Director of Financial and Administrative Services prior to the first day of lectures, as stated in the **University Diary**, may have their registration cancelled at the discretion of the University. Such students will then be required to reregister after all fees are paid and after the first day of lectures, as stated in the **University Diary**, but no later than the end of the regular registration period.
3. Outstanding accounts, including accounts outstanding pending the receipt of a scholarship, bursary, or similar award, must be paid in full by cash, money order, or certified cheque. Students with outstanding accounts will:
 - be ineligible to register for courses for a subsequent semester;
 - not be permitted into residence;
 - not be issued an academic transcript;
 - not be awarded a degree, diploma or certificate.
4. Accounts outstanding on the last day of examinations in a semester/session will be charged interest at the prime interest rate less 1.8% per annum. Such interest will apply effective the first day of lectures in that semester.

2.2 Application and Admission Fees

Unless otherwise noted, these application and admission fees are non-refundable.

2.2.1 Undergraduate Students

1. University Calendar fee: a University Calendar will be supplied free to undergraduate students newly admitted to the University.
 - University Calendar fee for others: \$5
2. General Application Processing Fee: this fee is payable with each application for admission or readmission to the University.
 - Undergraduate students who have never attended a post-secondary institution or who have previously attended Memorial, excluding medical students: \$50
 - Undergraduate students who have attended a post-secondary institution outside of Newfoundland or who are non-Canadian

applicants, excluding medical students: \$100

- Medical students: \$75
3. Fees in addition to General Application Processing Fee
 - Challenge for credit is charged at one half of the fee associated with the credit hour value of each course
 4. Admission Fees in addition to General Application Processing Fee
 - Bachelor of Technology: \$300
 - Bachelor of Maritime Studies: \$300
 5. Application Fee in addition to General Application Processing Fee
 - School of Pharmacy: \$75
 6. Penalties for Noncompliance with Payment of Application and Admission Fees
 - Late fees: all late fees are payable when assessed.
 - **Late application fee**
Up to one week after deadline: \$30
Each subsequent week to final date for receipt of applications: \$10

2.2.2 Graduate Students

1. Application Processing Fee: payable with each application for admission to the University.
 - Application Processing Fee for Canadian Applicants: \$50
 - Application Processing Fee for non-Canadian Applicants: \$100

2.3 Tuition and Related Fees

2.3.1 Undergraduate Students (other than Medical Students)

1. Unless otherwise specified, tuition fees are charged according to the credit hour value associated with the registered course(s). Courses are 3 credit hours unless otherwise indicated.
2. For the purposes of calculating tuition:
 - the credit hour value of each of the A and B components of a linked course shall be equivalent to one half of the credit hour value of the B component (see **Glossary of Terms Used in the Calendar**);
 - the credit hour value of F courses and non-degree courses (i.e. certificate programs) shall be three; and
 - the credit hour value of courses with "W" in the final position of the course number, excluding co-operative education work terms, shall be three.
3. Fees for citizens of Canada and permanent residents
 - Fee per credit hour: \$85
 - Co-operative education work terms: \$323
 - Maritime Studies/Technology Management 4100 and Maritime Studies/Technology Management 4200: \$1,154
 - Computer Science 3700 (per semester): \$154
4. Fees for international students
 - Fee per credit hour: \$293.33
 - Co-operative education work terms
Students entering September 2003: \$1,020
Students entering prior to September 2003: \$840
 - Maritime Studies/Technology Management 4100 and Maritime Studies/Technology Management 4200: \$1,779
 - Computer Science 3700 (per semester): \$533.32
5. Tuition refunds based on withdrawal from course(s)
 - Students dropping courses within two weeks following the first day of lectures in any semester will not be liable for tuition fees for those courses. Students dropping courses after that time will receive tuition fee refunds on a prorated basis. Any student who drops a course from two weeks to three weeks following the first day of lectures in any semester shall have 50% of the tuition refunded. Any student who drops a course from three weeks to four weeks following the first day of lectures in any semester shall have 25% of the tuition refunded. No tuition will be refunded for courses dropped after four weeks following the first day of lectures in any semester. For the actual dates relating to these refunds, see the **University Diary**.
 - In the case of sessions, accelerated courses and courses offered outside of the normal time frame of a semester or session, the tuition refund drop periods will be prorated accordingly.

2.3.2 Undergraduate Students (Medical Students)

1. Fees for citizens of Canada and permanent residents
 - Annual tuition fee (September 1 - \$3,125, January 1 - \$3,125): \$6,250
2. Fees for international students
 - Annual tuition fee: \$30,000

2.3.3 Graduate Students

1. Fees are payable at the time of registration. All graduate students must be registered in each semester of the three-semester academic year throughout the period of their program until all academic requirements for the degree have been met and they have been deemed eligible to graduate by the School of Graduate Studies. Final dates in each semester for notification of completion of academic requirements, in order to be deregistered from Graduate Registration 9000/Medicine 9900 without incurring liability for continuance fees, are included in the **University Diary**.
2. There is a minimum fee for all graduate degrees. The amount of this fee for both Canadian and international students will depend on

the semester fees in effect during his or her period of registration. Semester fees are subject to review at least annually. They are:

Program	Fee Per Semester for Citizens of Canada and Permanent Residents	Fee Per Semester for International Students	# of Semesters Fee Must Be Paid
Masters candidate:			
Plan A	\$733	\$953	6
Plan B	\$486	\$632	9
Plan C	\$1,010	\$1,312	3
Master of Science in Medicine (Applied Health Services Research)	\$2,000	\$2,000	6
Graduate Diploma Candidate	\$323	\$420	9
Doctoral program candidate (for students admitted prior to September 1, 2004)	\$911	\$1,183	9
Doctoral program candidate (for students admitted after September 1, 2004)	\$683	\$887	12

3. M.D.-Ph.D program:

- M.D. component - standard M.D. fees for four years
 - Ph.D. component - standard Ph.D. fees plus continuance fees, if required, during the active Ph.D. component
4. At the time of first registration, each masters's candidate must select a payment plan. The fee payable in the first and subsequent semesters will depend upon the payment plan selected. Once selected, the payment plan will remain in effect for the duration of the student's period of registration, and cannot be changed. Payment Plan C is available for selected programs only.
 5. A student who completes his or her program in a period of time shorter than that covered by the selected payment plan will, in his or her final semester be required to pay the difference between the product of the semester fee in effect in that final semester and the number of times which a fee should have been paid in accordance with the payment plan selected, and the actual amount paid.
 6. A student whose program extends beyond the period covered by the selected payment plan will be assessed the appropriate program continuance fee for each additional semester of registration. Continuance fees will be charged until the program is complete.
 7. The program continuance fees per semester for citizens of Canada and permanent residents entering prior to September 2004 are:
 - Masters candidate: \$334
 - Graduate Diploma candidate: \$162
 - Doctoral candidate: \$570
 8. The program continuance fees per semester for citizens of Canada and permanent residents, and international students entering September 2004 are:
 - Masters candidate: 8.15% of the total program fee for Plan A
 - Graduate Diploma candidate: 8.15% of the total program fee
 - Doctoral candidate: 8.15% of the total program fee
 9. The program continuance fees per semester for international students entering prior to September 1, 2004 are:
 - Masters candidate: \$434
 - Graduate Diploma candidate: \$210
 - Doctoral candidate: \$741
 10. Any doctoral student engaged in a double degree program through a cotelle agreement will be required to register at both Memorial University of Newfoundland and the cooperating institution for the duration of his/her program. Tuition fees are payable at only the 'home institution' i.e. the institution to which the doctoral student was initially admitted, as specified in the cotelle agreement.
 11. The semester fees listed above cover only the courses (if any) prescribed for the program by the academic unit and approved by the Dean of Graduate Studies. A student taking courses which are not part of the approved program must pay for them separately in accordance with the fee schedule for undergraduate courses.
 12. A graduate student who is permitted by the Dean of Graduate Studies to transfer from a diploma program to an allied master's program or from a master's program to a doctoral program before the former is completed will be required to pay the difference between the fees for the two programs, based on the semester fee in effect during each semester of the new program. This additional payment shall be made over the duration of the remaining semesters for which program fees are owed, or over three semesters, whichever is greater.
 13. A graduate student who wishes to withdraw from his or her graduate program must inform the Dean of Graduate Studies, in writing, within three weeks after the first day of lectures in the semester. Failure to do so will result in the student being held responsible for the fees due to the end of that semester. Administrative fee for approved retroactive requests for leave of absence or withdrawal from program: \$25
 14. Where a thesis is required by a particular degree or program, a fee will be charged to cover the cost of binding two copies of the thesis.
 - Thesis binding fee: \$20
 15. Special Fees: In addition to the semester fees, the following programs charge a special fee:
 - Doctor of Philosophy in Management
\$12,000: \$1,000 to be paid in each of twelve consecutive semesters
 - Master of Applied Science in Computer Engineering (Plan A)
Canadian: \$15,302 - charged \$9,951 in semester 1 and \$5,321 in semester 2
International: \$20,282 - charged \$12,969 in semester 1 and \$7,313 in semester 2

- Master of Applied Science in Environmental Systems Engineering and Management (Plan A)
Canadian: \$11,602 - charged \$7,761 in semester 1 and \$3,841 in semester 2
International: \$16,282 - charged \$10,569 in semester 1 and \$5,713 in semester 2
- Master of Applied Science in Oil and Gas Engineering (Plan A)
Canadian: \$11,602 - charged \$7,761 in semester 1 and \$3,841 in semester 2
International: \$16,282 - charged \$10,569 in semester 1 and \$5,713 in semester 2
- Master of Education (Information Technology)
\$2,550: \$1,275 charged in semester 1 and \$1,275 charged in semester 4
- Master of Engineering Management (Plan A)
Canadian: \$11,602 - charged \$7,761 in semester 1 and \$3,841 in semester 2
International: \$16,282 - charged \$10,569 in semester 1 and \$5,713 in semester 2
- Master of Nursing (Nurse Practitioner Option)
\$12,813: charged in semester 4 for students on Plan A and semester 7 for students on Plan B
- Master of Public Health
\$1,460: charged \$730 in semester 1 and \$730.00 charged in semester 2
- Master of Technology Management
\$4,602: \$2,301 charged in semester 1 and \$2,301 charged in semester 2
- Post-Master of Nursing (Nurse Practitioner) Diploma
\$12,813: charged in semester 1

2.3.4 Post-Graduate Residents and Interns

- Registration fee per annum: \$500

2.3.5 Lifelong Learning

1. Diploma in Information and Communication Technology Students
 - Option 1: Full-time and includes a work term (payable over three consecutive semesters): \$15,000
 - Option 2: Full-time without a work term (payable over three consecutive semesters) \$5,000, \$5,000, and \$3,000: \$13,000
 - Option 2: Part-time without a work term (payable over seven consecutive semesters): \$10,000
 - Repeat Course fee: \$295 per credit hour
 - Program Continuance Fee for full-time students who do not complete the program in the normal program period: \$352

2.3.6 Distance Education, Learning and Teaching Support (DELTS)

1. For distance education courses, there are administrative fees which are charged in addition to the tuition fees for these courses. These fees cover the cost of course materials (excluding textbooks), rental of video and audio tapes and management of web courses.
 - Administrative fees (per credit hour for Newfoundland and Labrador addresses): \$17
 - Administrative fees (per credit hour for out of province addresses): \$34
 - Change of examination location fee: \$50
 - Deferred examination fee: \$65

2.4 Residence (Housing) and Meals Fees and Charges

2.4.1 St. John's Campus

For additional information on residences see the section of the Calendar dealing with Student Housing.

1. General Residence Fees: this fee will not be refunded and will not be credited to the student's account.
 - Residence application fee: \$20 per semester
2. Residence deposit: \$500
3. Residence fees during semesters: the fees and charges below are per semester, per person, unless otherwise noted. For further information, contact Student Housing and Food Services.
 - Paton College
Double: \$1,087
Single: \$1,328
 - Meal Plans
19 meals per week: \$2,171
14 meals per week: \$2,081
10 meals per week: \$1,926
 - Burton's Pond Apartments
Single: \$1,522
Family Unit (per month, per apartment): \$795
4. Residence fees between semesters: students who request to stay in residence between semesters may be accommodated providing space is available and notice is given in writing to Student Housing and Food Services. Students are required to pay the full charge on receipt of notification of acceptance.
Room rates (per night, per person)

- Paton College and Burton's Pond Apartments: \$11
5. Penalties for noncompliance with payment of fees and charges
- Students with outstanding fees will not be permitted into residence without approval from the Director of Financial and Administrative Services.
 - Students not returning to residence must cancel a room assignment by the established deadline date. Failure to do so will result in a cancellation charge.
Cancellation charge: \$500

2.4.2 Grenfell Campus

The fees and charges below are per semester, per person, unless otherwise noted.

1. General residence fees: this fee will not be refunded and will not be credited to the student's account.
 - Residence application fee: \$20
2. Residence deposit: charged only to students who are applying to live in residence for the first time (due May 31 for Fall semester, November 15 for Winter semester). The deposit is creditable and may be refunded when all conditions pertaining to it are met.
 - Residence deposit: \$500
 - Cancellation fee for returning students who fail to cancel residence/chalet rooms for Fall and Winter semester: \$500.00
3. Residence fees during semesters
 - Room: \$1,264
 - Apartments
Single: \$1,472
Family Apartment (per month): \$595.00
Bachelor Unit (per semester): \$1,385
4. Residence fees between semesters: students who need to stay in residence between semesters may be accommodated providing space is available and reasonable notice is given in writing to Student Housing. Students are required to pay the full charge on receipt of notification of acceptance.
Room rates (per night, per person)
 - Apartment: \$12
 - Residence: \$10

2.5 Student Organization Fees

Student organization fees are collected by the University as a service to the student body. They are payable prior to, or at the time of, registration.

2.5.1 St. John's Campus

All fees are per semester and are compulsory unless otherwise noted.

1. Undergraduate students (full-time)
 - General fees
Student Union fee: \$41.36
Canadian Federation of Students' fee (not collected Spring semester): \$4.20
Canadian Federation of Students - Newfoundland and Labrador fee (not collected Spring semester): \$4.20
Media Fee: \$4
 - Health/Dental Plans
Students who have alternative health and dental coverage may opt out of the plan(s) by completing a Waiver of Participation form at www.munsu.ca. The deadline to opt out of the health and dental plans for any given academic year is two weeks after the first day of lectures in September. Only students who were not full time, not enrolled, or a work-term student in the Fall semester, may opt out in the Winter semester. The deadline will be two weeks after the first day of classes.
Student Health Plan: \$81
Dental Plan: \$65
2. Undergraduate students (part-time)
 - Student Union fee: \$17.73
 - Canadian Federation of Students - Provincial (not collected Spring semester): \$4.20
 - Canadian Federation of Students - Federal (not collected Spring semester): \$4.20
 - Media fee: \$4
3. Graduate students
 - Union fee: \$20
 - Canadian Federation of Students - Provincial (not collected Spring semester): \$4.20
 - Canadian Federation of Students - Federal (not collected Spring semester): \$4.20
 - Health/Dental Plans
Students who have alternative health and dental coverage may opt out of the plan(s). The deadline to opt out of the health and dental plans is three weeks after the start of class.
Drug and Health Insurance Plan fee (per annum): \$553.95
Dental Insurance Plan fee (per annum): \$196.68
4. Post-graduate residents and interns
 - Union fee (per annum): \$5

5. Nursing students (fee collected in the Fall semester)
 - Canadian Nursing Students' Association fee (full-time students, per annum): \$10
 - Canadian Nursing Students' Association fee (part-time students, per annum): \$5

2.5.2 Grenfell Campus

1. Undergraduate Students (full-time)
 - Health Plan: \$84.30
 - Dental Plan: \$55.50
 - Student Union fee: \$65
 - SUB. Fund: \$5
 - Canadian Federation of Students - Newfoundland and Labrador fee (not collected Spring semester): \$4.08
 - Canadian Federation of Students' fee (not collected Spring semester): \$4.08
2. Undergraduates (part-time)
 - Union fees: \$32.50
 - Canadian Federation of Students - Newfoundland and Labrador fee (not collected Spring semester): \$4.08
 - Canadian Federation of Students' fee (not collected Spring semester): \$4.08

2.5.3 International Student Health Insurance (varies from year to year)

1. All students (undergraduate and graduate) studying on a student visa at Memorial University of Newfoundland will be required, as a condition of registration, to purchase health insurance. Such students should check with the International Student Advisor for the current rate.

2.6 Fees and Charges Pertaining to Appeals

2.6.1 Challenge for Credit Fee

- Fee: one half of the fee associated with the credit hour value of the course

2.6.2 Supplementary Examination Fee

- Fee: \$50

2.6.3 Reread of Final Examination Fee

- Fee: \$50

2.7 Miscellaneous Fees and Charges

2.7.1 Recreation Fee (The Works)

Students must pay a recreation fee which will be adjusted according to the Consumer Price Index (CPI) on September 1 of each year.

- Fee (St. John's Campus and Fisheries and Marine Institute)
- Per semester: \$54.80
- Per session: \$27.40

2.7.2 Student Parking Fees

Students may purchase permits on a semester or per annum basis.

- Per semester: \$13.80
- Per annum: \$41.40

2.7.3 Books and Supplies

1. Students should be prepared to meet an expenditure to cover the cost of textbooks and supplies each semester. Students should consult their professors before purchasing any new or used textbooks or laboratory manuals.

2.7.4 Damages or Destruction to University Property

1. Unwarranted damages or destruction to University property will be charged to the responsible party or parties, and are payable when assessed.

2.8 Appeal of Fees and Charges Regulations

Appeal of Fees and Charges Regulations apply to **Undergraduate Students (other than Medical Students), 5.** only. It is intended to recognize and be sensitive to students who experience devastating, unforeseen and/or catastrophic events during the semester and therefore withdraw from a course or courses. Students are permitted to appeal for refund of tuition associated with dropped course(s) only, not for refund of incidental fees including, but not limited, to medical/dental coverage, MUNSU fees, recreation fees, etc.

2.8.1 Responsibilities in the Tuition Refund Appeals Process

The University has established financial regulations, procedures and deadlines through its governing bodies for the guidance of students. Students are expected to take into account their personal and academic circumstances, in order to meet university financial regulations, procedures, and to satisfy financial requirements and deadlines.

2.8.1.1 Students' Responsibilities in the Tuition Refund Appeals Process

It is incumbent upon students to:

- be aware of and adhere to all financial regulations, requirements and published deadlines, especially the refund schedule published in the University Diary;
- familiarize themselves with published tuition refund appeals procedures;
- submit tuition refund appeals and all supporting documentation no later than one month after the official release of grades for the semester of the dropped course(s); and
- provide appropriate authenticating materials.

2.8.1.2 The University's Responsibilities in the Tuition Refund Appeals Process

It is incumbent upon the University to:

- make available to students advice and guidance regarding options, deadlines, required documentation, and tuition refund appeal route by way of written notification, the University website, personal appointment or other forms of communication;
- direct students to the appropriate office for information on tuition refund appeals;
- attend to tuition refund appeals efficiently and ensure parties receive fair, consistent and ethical treatment;
- supply students with reasons for decisions to deny a tuition refund appeal; and
- maintain parties' right to confidentiality.

2.8.2 Guidelines for the Tuition Refund Appeals Process

1. Transparency should guide all steps of the tuition refund appeal process. In the case of an appeal, the parties should have access to all documents submitted.
2. The principles of fairness should be applied in appeal procedures and decisions.
3. Information submitted in support of an appeal will be kept confidential.

2.8.3 General Information and Procedures for Tuition Refund Appeals

1. A tuition refund appeal must be filed no later than one month after the official release of grades for the semester of the dropped course(s).
2. Any tuition refund appeal should be made in writing, by the student, clearly stating the basis for the appeal and should be directed to the Committee Coordinator, Tuition Refund Appeals Committee, c/o The Cashier's Office, Memorial University of Newfoundland, St. John's, NL A1C 5S7.
3. Successfully dropping a course academically does not guarantee that a tuition refund appeal will be successful. Academic difficulty in a course and/or missing a published refund deadline is not sufficient grounds for an appeal.
4. For assistance in the tuition refund appeals process, students are advised to consult with the Committee Coordinator.
5. In preparing an appeal a student may consult advisors or facilitators. Such advisors or facilitators may include a faculty advisor, staff advisor, a counselor, a representative from the Memorial University of Newfoundland Students' Union (MUNSU) or other individual who is willing to undertake the role of student advisor or facilitator.
6. The Tuition Refund Appeals Committee may decide to deny or uphold an appeal. If it upholds an appeal, the Committee may prorate the tuition refund depending upon the student's length of participation in the course(s) and other factors.
7. The decision of the Tuition Refund Appeals Committee is final.

2.8.4 Information Required for Medical Certificates

Please refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate), Information Required for Medical Certificates from Health Professionals.**

3 Admission/Readmission to the University (Undergraduate)

3.1 Admission/Readmission Information

This section applies to all undergraduate applicants except those applying to the Faculty of Medicine.

Applicants seeking admission to the Faculty of Medicine should refer to the **Faculty of Medicine** regulations for information.

Applicants seeking admission to a particular faculty or school may be required to submit a supplementary faculty or school application in addition to the application for admission/readmission and should refer to appropriate faculty or school regulations for procedures, deadlines, admission requirements and further information.

1. Applications for admission/readmission should be submitted by the deadline dates listed in the **University Diary**. Applications received later or post-marked later than the stated deadline dates will be processed as time and resources permit. Application forms and other information may be obtained by contacting the University in writing to the Admissions Office, Office of the Registrar, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by e-mail at admissions@mun.ca or through the website at www.mun.ca/regoff/home/.
2. Each application must be accompanied by a \$40.00 application processing fee. An additional application processing fee of \$40.00 is required from non-Canadian applicants or applicants transferring from post-secondary institutions outside of Newfoundland and Labrador. Neither fee is refundable nor will it be credited to the applicant's financial account under any circumstances. Information regarding other fees and charges is specified under **Fees and Charges**.
3. Applicants who have previously attended Memorial University of Newfoundland and have not registered for courses for the past two consecutive semesters (Fall, Winter, Spring) are required to submit a new Application for Admission/Readmission together with the \$40.00 application processing fee.
4. The admission criteria required of each category of applicant is specified under **Categories of Applicants, Admission Criteria And Required Documentation**.
5. Admission to some courses, programs and/or the University may be limited by the University when it deems the facilities and resources available to it are not adequate to provide for additional students. Consequently possession of the minimum requirements does not guarantee that an applicant will be granted admission to a course, a program and/or the University.

6. The University may set its own matriculation examinations either in separate subjects or in all those required for matriculation, and may refuse admission to any applicant failing to attain a satisfactory standard in these examinations.
7. The University reserves the right to refuse admission to any applicant.
8. Applicants may be required to provide medical evidence of their fitness to pursue university studies.

3.2 English Language Proficiency Requirements

Since English is the primary language of instruction at this University, all applicants seeking admission to Memorial University of Newfoundland must possess an adequate knowledge of written and spoken English as a prerequisite to admission. Regardless of country of origin or of citizenship status, applicants will be required to provide proof of proficiency in the English language based on one of the following forms.

3.2.1 English Language Secondary Institution

Applicants are required to have successfully completed the equivalent of three years of full-time instruction in an English language secondary institution as recognized by Memorial University of Newfoundland including successful completion of appropriate course(s) in English at the Grade XII or equivalent level. English as a Second Language (ESL) courses are not acceptable for meeting this requirement.

3.2.2 English Language Post-Secondary Institution

Applicants who have attended a recognized post-secondary institution where English is the language of instruction must have successfully completed the equivalent of 30 credit hours. These 30 credit hours must include 6 transferable credit hours in English courses. For information on transfer credit refer to **Transfer Credit**.

3.2.3 Test of English as a Foreign Language (TOEFL)

A minimum score of 550 is required on the paper-based test or 213 on the computer-based test of the Test of English as a Foreign Language (TOEFL). A minimum score of 79 with at least 20 in each of Reading and Writing, and no less than 17 in Listening and Speaking is required on the internet-based TOEFL. The official results of the TOEFL must be forwarded to Memorial University of Newfoundland directly from the Educational Testing Service.

Information regarding the TOEFL program is available from the Educational Testing Service (E'S), TOEFL/TSE Services, P.O. Box 6151, Princeton, New Jersey, U.S.A., 08541-6151, from U.S. embassies or consulates, or from offices of the U.S. Information Services. The Division of Lifelong Learning at Memorial University of Newfoundland is an official E'S testing centre and may be contacted at (709) 864-7979 or online at www.mun.ca/lifelonglearning.

Applicants will be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information refer to **English Language And Mathematics Placement Tests**.

3.2.4 Michigan English Language Assessment Battery (MELAB)

A minimum score of 85 is required on the Michigan English Language Assessment Battery (MELAB). The official results of the MELAB must be forwarded to Memorial University of Newfoundland directly from the appropriate testing authority.

Information on the Michigan English Language Assessment Battery (MELAB) testing program may be obtained from the Testing and Certificate Division, University of Michigan, 2001 North University Building, Ann Arbor, Michigan, U.S.A., 48109-1057.

Applicants will be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information refer to **English Language and Mathematics Placement Tests**.

3.2.5 Canadian Academic English Language (CAEL) Assessment

Minimum band scores between 50 and 60 in each of the four skills tested (Reading, Writing, Listening, Speaking), with at least two band scores of 60 are required on the Canadian Academic English Language (CAEL) Assessment. The official results of the CAEL must be forwarded to Memorial University of Newfoundland directly from the appropriate testing authority.

Information regarding the Canadian Academic English Language (CAEL) Assessment may be obtained from the Ottawa Test Centre, School of Linguistics and Applied Language Studies, Carleton University, 215 Paterson Hall, 1125 Colonel By Drive, Ottawa, Ontario, K1S 5B6.

Applicants will be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information refer to **English Language and Mathematics Placement Tests**.

3.2.6 Canadian Test of English for Scholars and Trainees (CanTEST)

Minimum band scores of 4.5 in the listening comprehension and reading comprehension sub-tests and a score of 4 in writing are required on the Canadian Test of English for Scholars and Trainees (CanTEST).

The official results of the CanTEST must be forwarded to Memorial University of Newfoundland directly from the appropriate testing authority.

Applicants will be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information contact the Department of English Language and Literature.

3.2.7 Memorial University of Newfoundland's Intensive English Program

Applicants are required to have successfully completed Memorial University of Newfoundland's Intensive English Program together with an acceptable score, as noted above, on the CAEL administered by the Department of English Language and Literature at the University.

Applicants may be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information, refer to the section of this Calendar describing the **Faculty of Arts' English as a Second Language programs**.

3.2.8 International English Language Testing System (IELTS)

A minimum overall band score of 6.5, with at least band 6 in each of Writing and Reading. The official results of the IELTS must be forwarded to Memorial University of Newfoundland directly from the appropriate testing authority.

Information regarding the IELTS may be obtained from the IELTS Subject Officer, University of Cambridge Local, Examinations Syndicate, 1 Hills Road, Cambridge, CB1 2EU, U.K. or via www.ielts.org/.

Applicants will be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information refer to **English Language and Mathematics Placement Tests**.

3.2.9 Other

Other forms of proof of English language proficiency, acceptable to the University Committee on Admissions, may be considered.

Applicants will be required to write a placement test in English language prior to the commencement of classes to determine the appropriate course in English for which they should register. For further information refer to **English Language and Mathematics Placement Tests**.

3.3 Categories of Applicants, Admission Criteria and Other Information

The categories of applicants applying for admission/readmission as well as the admission criteria and other related information are listed below. Before a final admissions decision can be reached all required documents must be received. All documents must be official and be forwarded directly to the Admissions Office, Office of the Registrar from the appropriate institution(s) or source(s). Photocopied documents are not acceptable unless duly certified.

3.3.1 Applicants Who Have Followed the High School Curriculum of Newfoundland and Labrador

3.3.1.1 Admission Criteria

The courses below are courses designed for students who intend to seek post-secondary education at the University or other institutions whose programs demand levels of proficiency equivalent to those required by the University. Applicants shall have completed Graduation Requirements for high school as set down by the Department of Education and obtained credits in the following subjects with an overall average of not less than 70% compiled from the grades received in those courses at the 3000 level.

- **English:** English 3201 (2 credits); or the former combination of Language 3101 (1 credit) and one of Thematic Literature 3201(2 credits) or Literary Heritage 3202 (2 credits).
- **Academic or Advanced Mathematics:** One of Mathematics 2200, 2201, 2204, or 2205 and one of Mathematics 3200, 3201, 3204, or 3205 (valued at 2 credits each).
- **Laboratory Science:** Four credits in Laboratory Science (i.e. Biology, Chemistry, Earth Systems, Physics), including at least two credits at the 3000 level chosen from one of Biology 3201, Chemistry 3202, Earth Systems 3209, or Physics 3204 (valued at two credits each). The remaining two credits may be selected from 2000-level courses in the above-noted subject areas or from Science 1206.
- **Social Science/Modern or Classical Language:** Two credits at the 3000 level in a Social Science area or in a Modern or Classical Language.
- **Electives:** Two credits at the 3000 level in elective courses chosen from the subjects above or from additional courses approved by the Department of Education for offering at the 3000 level for certificate purposes.

3.3.1.2 Other Information

- **Early Acceptance:** Applicants in their final year of high school who have completed or who are completing a slate of courses which meets the course requirements specified in **Applicants Who Have Followed the High School Curriculum of Newfoundland and Labrador**, may be granted early acceptance prior to the writing of final examinations. This early acceptance will be subject to verification, when final examination results are released by the appropriate authorities, that the applicant has successfully met the requirements for admission as specified above in **Admission Criteria**. Applicants who fail to meet the minimum admission requirements at that time will have their acceptance revoked. This does not preclude the application of selective admission criteria for particular faculty/school programs.
- **Advanced Placement:** Applicants completing Advanced Placement courses through the Advanced Placement Program offered by the College board should also refer to **Transfer Credit Advanced Placement (AP)**.
- **English Language Proficiency Requirements** will apply to all applicants.

3.3.2 Applicants Who Have Followed the High School Curricula of Other Provinces of Canada

3.3.2.1 Admission Criteria

- Applicants from other provinces of Canada are required to have successfully completed Grade XII in the University Preparatory Program (in the case of Quebec students, Secondary V Certificate) with a passing mark in each of the following Grade XII academic or advanced-level subjects and an overall average of not less than 70% compiled from the grades received in the courses selected:
 - English
 - Mathematics
 - Laboratory Science (1 of Biology, Chemistry, Earth Science, Geology or Physics)
 - Social Science/Modern Classical Language
 - Elective
- For further information concerning specific provinces, applicants may contact the University by writing to the Admissions Office, Office of the Registrar, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by e-mail at admissions@mun.ca or through the website at www.mun.ca.

3.3.2.2 Other Information

- **Early Acceptance:** Applicants in their final year of high school who have completed or who are completing, a slate of courses which meets the course requirements in **Applicants Who Have Followed the High School Curricula of Other Provinces of Canada** may be granted early acceptance prior to the writing of final examinations. This early acceptance will be subject to verification, when final examination results are received by the Office of the Registrar from the appropriate authorities, that the applicant has successfully met the minimum requirements for admission as specified above in **Admission Criteria**. Applicants who fail to meet the minimum admission requirements at that time will have their acceptance revoked. This does not preclude the application of selective admission criteria for particular faculty/school programs.
- **Advanced Placement:** Applicants completing Advanced Placement courses through the Advanced Placement Program offered by the College Board should refer to **Transfer Credit Advanced Placement (AP)**.
- Applicants seeking credit for enriched High School Grade XII courses or Ontario Grade XIII/OAJ courses should refer to **Transfer Credit Enriched Courses and Ontario Grade XIII/OAJ**.
- **English Language Proficiency Requirements** will apply to all applicants.

3.3.3 Applicants Who Have Followed the College of the North Atlantic Comprehensive Arts and Science Transition Program

3.3.3.1 Admission Criteria

Students who do not meet the requirements for admission to Memorial University of Newfoundland under one of the two categories above but who do hold a high school diploma may be eligible for admission under this category. Students applying under this category must successfully complete all qualification requirements for the award of the Comprehensive Arts and Science (CAS) Transition Year Certificate from the College of the North Atlantic. A full outline of this program is available in the College of the North Atlantic Calendar which is available online at www.cna.nl.ca.

This does not preclude the application of selective admission criteria for particular faculty/school programs. Students may wish to consider the course requirements for their intended program of study at Memorial University of Newfoundland when selecting CAS Transition Year courses for completion of the Transition Year Certificate program.

3.3.3.2 Early Acceptance

Applicants who have completed, or who are completing, a slate of courses which meets the **Admission Criteria** as described above for applicants completing the College of the North Atlantic CAS Transition Year program may be granted early acceptance prior to the writing of final examinations. This early acceptance will be subject to verification, when final examination results are received by the Office of the Registrar from the College of the North Atlantic, that the applicant has successfully met the minimum requirements for admission as specified above in **Admission Criteria**. Applicants who fail to meet the minimum admission requirements at that time will have their acceptance revoked.

3.3.3.3 Other Information

- English Language Proficiency Requirements will apply to all applicants.

3.3.4 Applicants For Concurrent Studies

3.3.4.1 Admission Criteria

- Applicants in or about to enter their final year of high school with a superior academic record (i.e. normally an overall average of 85% or above) may apply to enrol in university courses (excluding distance education courses). The applicant for concurrent studies must be enrolled in a high school and completing a slate of courses that meets the course requirements for admission to the University as specified in **Applicants Who Have Followed the High School Curriculum of Newfoundland and Labrador**.
- Applicants will be required to submit a letter requesting enrolment in a specific course; an official high school transcript; and a letter from the high school principal or guidance counsellor clearly recommending admission for concurrent studies.
- Applicants must submit a completed application for admission/readmission together with the appropriate fee. For further information refer to **Fees and Charges**.
- An applicant for concurrent studies wishing to enrol in courses at the St. John's campus will be permitted to do so based on the recommendation of the University Committee on Admissions. Applicants wishing to enrol in courses at the Corner Brook campus will be permitted to do so based on the recommendation of the Special Admissions Committee at Grenfell Campus. Eligibility to enrol is limited to one semester but may be renewed on the recommendation of the relevant committee.
- Enrolment for concurrent studies students will normally be limited to three credit hours in a given semester. Fees and deadlines are the same as for regularly admitted students. University credit will be awarded after successful completion of the course(s) and successful completion of the requirements for admission to the University.

3.3.4.2 Other Information

- **English Language Proficiency Requirements** will apply to all applicants.

3.3.5 Applicants Who Have Followed the Adult Basic Education Program (ABE)

3.3.5.1 Admission Criteria

Applicants shall have completed the Level III Adult Basic Education Certificate (ABE) with the approved combination of thirty-six credits set down by the Department of Education and successfully completed, with an overall average of not less than 70%, the following courses as outlined below:

- **Communication Skills:** IC 3112 and IC 3321 **OR** English 3101A, 3101B, and 3101C
- **Mathematics:** One of the following groups:
 - Mathematics: IM 3115, 3211, 3212, 3213, and 3216 **OR**
 - Mathematics: IM 3218, 3219, and 3221 **OR**
 - Mathematics: 2104A, 2104B, 2104C, 3104A, 3104B, and 3104C
- **Science:** One of the following patterns:

- Biology: IBT 3113, 3115, 3211, 3212A/B, 3214, and 3316 **OR**
- Biology: 2101A, 2101B, 2101C, 3101A, 3101B, and 3101C
- Chemistry: ICH 3111, 3112, 3113, 3114, 3116, 3117, 3118, and 3215 **OR**
- Chemistry: 2102A, 2102B, 2102C, 3102A, 3102B, and 3102C
- Geology: IS 3212
- Physics: IP 3111, 3112, 3213, 3215, and 3216 **OR**
- Physics: 2104A, 2104B, 2104C, 3104A, 3104B, and 3104C

3.3.5.2 Other Information

- **English Language Proficiency Requirements** will apply to all applicants.

3.3.6 Applicants For Mature Student Status

3.3.6.1 Admission Criteria

- An applicant, 21 years of age or older within one month after the beginning of the semester or the session to which admission is being sought, who has not fulfilled the admission criteria outlined in any of the above categories may be admitted to the University with the approval of the University Committee on Admissions.
- Applicants for mature student status will be required to submit proof of age; two letters of reference from persons competent to assess the candidate's ability to proceed with university studies; a letter from the applicant outlining the grounds for requesting special consideration; and high school marks and marks from post-secondary institutions, if applicable.
- Applicants will be required to submit a completed application for admission/readmission together with the appropriate fee. For further information refer to **Fees and Charges**.
- Applicants for mature student status may be required to show through an interview that they possess the potential to proceed with university studies.
- Since admission as a mature student is not on the grounds of age alone, the University Committee on Admissions reserves the right to refuse admission to any applicant.

3.3.6.2 Other Information

- **English Language Proficiency Requirements** will apply to all applicants.

3.3.7 Applicants Who Are Senior Citizens

3.3.7.1 Admission Criteria

- An applicant, 60 years of age or older within one month after the beginning of the semester/session to which admission is being sought, may be admitted to the University as a senior citizen, upon submission of a birth certificate or other proof of age.

3.3.8 Applicants From Other Countries

Applicants from other countries not listed below may contact the University by writing to the Admissions Office, Office of the Registrar, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by e-mail at admissions@mun.ca or through the website at www.mun.ca for further information.

3.3.8.1 United Kingdom - Admission Criteria

- Applicants from the United Kingdom are required to have the General Certificate of Education or the Scottish Leaving Certificate of Education with a minimum of "Ordinary" or "Lower-Level" passes in five subjects acceptable to the University Committee on Admissions.
- Applicants completing the "Higher Level" subjects of the Scottish Leaving Certificate and applicants completing the "Advanced Level" subjects of the General Certificate of Education should refer to **Transfer Credit**.
- Also refer to 2.3.7.4, **Other Information**.

3.3.8.2 Hong Kong, Malaysia, West Indies and West Africa - Admission Criteria

- Applicants from Hong Kong, Malaysia, West Indies and West Africa are required to have the General Certificate of Education with passes in five academic subjects at the "Ordinary Level" acceptable to the University Committee on Admissions.
- Applicants completing the "Advanced Level" subjects of the General Certificate of Education should refer to **Transfer Credit**.
- Also refer to 2.3.7.4, **Other Information**.

3.3.8.3 United States - Admission Criteria

- Applicants from the United States must have completed a High School University Preparatory Program (Grade XII) with a passing mark in the appropriate Grade XII course in each of the five areas listed below with an overall average of not less than 70% in the courses selected.
 - English
 - Mathematics
 - Laboratory Science (1 of Biology, Chemistry, Earth Science, Geology or Physics)
 - Social Science/Modern Classical Language
 - Elective
- Also refer to 2.3.7.4, **Other Information**.

3.3.8.4 Other Information

- **Early Acceptance:** Applicants in their final year of high school who have completed, or who are completing, a slate of courses which meets the course requirements as specified under **Applicants From Other Countries** may be granted early acceptance prior

to the writing of final examinations. This early acceptance will be subject to verification, when final examination results are received by the Office of the Registrar from the appropriate authorities, that the applicant has met the minimum requirements for admission as specified under **Applicants From Other Countries**. Applicants who fail to meet all requirements at that time will have their acceptance revoked. This does not preclude the application of selective admission criteria for particular faculty/school programs.

- Applicants from other countries should submit official matriculation certificates at least two months prior to the commencement of the semester to which they are seeking admission. Certificates in a language other than English or French should be accompanied by notarized English translations.
- Applicants from other countries may be required to submit with their application, a statement of satisfactory financial resources.
- **English Language Proficiency Requirements** will apply to all applicants.

3.3.9 Applicants Transferring From Other Recognized Universities or Colleges

3.3.9.1 Admission Criteria

- The admission of applicants from other recognized universities or colleges will be subject to the regulations for **Admission/Readmission to the University** in addition to **General Academic Regulations, Regulations for Continuance and Readmission**. In order to allow sufficient time for assessment of possible transfer credit, applicants should refer to **Transfer Credit** for information on the transfer credit application and evaluation process and requirements.

3.3.9.2 Other Information

- In addition to the \$40.00 non-refundable application processing fee, a fee of \$40.00 is required of all applicants who apply for admission from post-secondary institutions outside of Newfoundland and Labrador and/or non-Canadian applicants. Neither fee is refundable nor will it be credited to the applicant's financial account in any circumstances. For further information refer to **Fees and Charges**.
- Students applying for transfer from other recognized universities or colleges shall submit their High School Diploma and official transcript(s) from all universities and colleges attended. All documents must be forwarded directly to the Admissions Office, Office of the Registrar from the appropriate institution(s). These documents must be certified and official and received in the Office of the Registrar not later than two months prior to the first day of lectures in any semester, as stated in the **University Diary**. An application is not considered complete until these documents have been received.
- Applicants transferring from other universities or colleges should also see **Transfer Credit**.
- **English Language Proficiency Requirements** will apply to all applicants.

3.3.10 Applicants Who Are Requesting Special Admission

Where circumstances warrant, applicants not meeting the regulations for **Admission/Readmission to the University** may be admitted to Memorial University of Newfoundland with the approval of the University Committee on Admissions.

3.3.10.1 Admission Criteria

- Applicants must submit a completed application for admission/readmission together with the appropriate fee. For further information refer to **Fees and Charges**
- Applicants must submit a letter to the Committee outlining the grounds for requesting special consideration and provide a letter from a school principal, guidance counsellor, employer or other responsible person substantiating those grounds.
- In order to allow sufficient time for reasonable and consistent consideration of special cases, supporting letters must be received at least one week prior to the beginning of the semester to which admission is being sought.

3.3.10.2 Other Information

- **English Language Proficiency Requirements** will apply to all applicants.

3.4 English Language and Mathematics Placement Tests

In addition to the following, more detailed information regarding the English language and Mathematics placement tests is available from the Department of English Language and Literature and the Department of Mathematics and Statistics respectively.

3.4.1 English Language Placement Test

1. With the exception of applicants who demonstrate English language proficiency under the regulations, **English Language Proficiency Requirements, English Language Secondary Institution** and **English Language Post-Secondary Institution**, all other applicants will be required to write a placement test in English language. This test must be taken prior to the commencement of classes to determine the appropriate English course for which an applicant should register. For further information concerning English language proficiency requirements refer to **English Language Proficiency Requirements**.
2. Students whose performance in the placement test in English language indicates that appropriate placement is in English 102F will be required to register in, and successfully complete English 102F before registering in higher level courses in English.

3.4.2 Mathematics Placement Test

1. Applicants intending to register for the first time in any 1000 level mathematics course must submit a score for either an Advanced Placement Calculus Examination or other standardized tests acceptable to the Department of Mathematics and Statistics.
2. Students whose score in the Advanced Placement Calculus examination or other standardized test is not acceptable to the Department of Mathematics and Statistics will be required to register in a mathematics course determined by the Department of Mathematics and Statistics.

3.5 Transfer Credit

Applicants wishing to be considered for advanced standing or transfer credit must submit, in addition to the Application for Admission/Readmission, an Application for Transfer Credit Evaluation which can be obtained from the Office of the Registrar.

Official transcript(s) and calendar descriptions and/or outlines of courses claimed for credit are also required and should be sent directly to Memorial University of Newfoundland from the institution attended.

In order to allow sufficient time for evaluation, these documents should be received at least two months prior to the commencement of the registration period for the semester to which the applicant is seeking admission. It is the student's responsibility to provide the pertinent documents, and until they are received, the Office of the Registrar is unable to commence an evaluation or to advise students of their standing at this University.

When transfer credit is awarded for work completed at another institution, only equivalent Memorial University of Newfoundland course(s) and credit(s) are recorded on the Memorial University of Newfoundland transcript. Grades received from other institutions are not recorded nor included in averages.

Applicants who have not received the results of a transfer credit evaluation prior to the assigned registration time for the semester in which they propose to begin studies should contact the Admissions Office for further assistance.

Outlined below are the various categories for which transfer credit may be considered.

3.5.1 Advanced Placement (AP)

- Memorial University of Newfoundland may recognize for transfer credit certain courses completed through the Advanced Placement Program offered by the College Board. Award of credit for AP courses will be subject to the achievement of a minimum grade of 3 in each subject claimed for credit (in certain subjects a minimum grade of 4 may be required).
- Award of credit for AP courses will be subject to evaluation and recommendation by the appropriate University academic unit and University Regulations.
- The applicability of all transfer credits, whether specified or unspecified, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.5.2 Enriched Courses And Ontario Grade XIII/OAJ

- Certain Grade XII enriched courses and certain Ontario Grade XIII/OAJ subjects may be recognized for introductory (normally first year) credits, where applicable, provided that the subjects claimed for credit are recommended as equivalent to Memorial University of Newfoundland courses by the relevant University academic unit(s). In addition, the applicant must have obtained an overall average in these courses of not less than 65% with a passing grade in each subject claimed for credit. Applicants who have not obtained the overall average requirement of 65% in these courses will be required to have obtained a mark of not less than 65% in individual subjects claimed for credit.
- Award of credit for Grade XII enriched and Ontario Grade XIII/OAJ courses will be subject to evaluation and recommendation by the appropriate University academic unit(s) and University Regulations.
- The applicability of all transfer credits, whether specified or unspecified, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.5.3 Advanced Or Higher Levels

- The "Advanced Level" subjects of the General Certificate of Education will generally be accepted for credit to a maximum of 12 credit hours in each subject provided that a minimum grade of 'D' in each subject claimed for credit has been obtained.
- The "Higher Level" subjects of the Scottish Leaving Certificate will generally be accepted for credit at the first year level.
- Award of credit will be subject to evaluation and recommendation by the appropriate academic unit(s) and University Regulations.
- The applicability of all transfer credits, whether specified or unspecified, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.5.4 International Baccalaureate Diploma

- Memorial University of Newfoundland will consider for transfer credit the "Higher Level" subjects and certain "Standard" or "Subsidiary" level subjects, provided that the subjects claimed for credit are recommended as equivalent to Memorial University of Newfoundland courses by the relevant University academic unit(s), and the candidate has achieved a minimum grade of 4 in individual subjects claimed for credit. In certain subjects a minimum grade of 5 may be required.
- The applicability of all transfer credits, whether specified or unspecified, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.5.5 Member Institutions of the Association of Universities and Colleges of Canada (AUCC)

- All university-level course work completed by transfer students during the first two years of university study taken at universities/colleges that are ordinary members of the Association of Universities and Colleges of Canada (AUCC) will be recognized for transfer credit. In the first instance, the evaluation of such course work for appropriate credit will be conducted by University academic units. In instances where appropriate credit cannot be granted by academic units or where no University academic unit exists at this University for the evaluation of particular transfer credits, the Office of the Registrar will award the appropriate unspecified credits in an unspecified discipline.
- Applicants who have completed course work beyond the first two years of university study may be considered for further transfer credit subject to evaluation and recommendation by the appropriate academic unit(s) and University Regulations.
- The applicability of all transfer credits, whether specified, unspecified or in an unspecified discipline, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.5.6 Other Universities, Colleges and Institutes

- Memorial University of Newfoundland may recognize for transfer credit certain courses offered by the College of the North Atlantic, the Fisheries and Marine Institute of Memorial University of Newfoundland, and certain other community colleges, technical colleges, institutes and CEGEPs.
- Memorial University of Newfoundland may recognize for transfer credit certain courses offered by other recognized universities or university colleges.
- Award of credit will be subject to evaluation and recommendation by the appropriate academic unit(s) and University Regulations.
- The applicability of all transfer credits, whether specified or unspecified, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.5.7 Caribbean Advanced Proficiency Exams

- Memorial University of Newfoundland may recognize for transfer credit certain courses completed through the Caribbean Advanced Proficiency Examinations. These examinations will generally be accepted for credit to a maximum of 12 credit hours for each 2 unit course and 6 credit hours for each 1 unit course.
- Credit will be considered on an individual basis and award of credit will be subject to evaluation and recommendation by the appropriate University academic unit(s) and University Regulations.
- The applicability of all transfer credits, whether specified, unspecified or in an unspecified discipline, is subject to appropriate program regulations.
- Information regarding course equivalencies can be obtained from the Admissions Office, Office of the Registrar.

3.6 Challenge for Credit

Memorial University of Newfoundland recognizes that some students may have achieved competence in certain subject areas through experience gained elsewhere. This experience, which may warrant consideration for academic credit at the undergraduate level, may consist of courses taken at "non-university" institutions or skills acquired from work or learning outside the university. It should be noted that challenge for credit is not offered for Work Terms or Internships.

Since course challenge is not offered by all academic units nor for all courses within a unit, students are advised to consult with the appropriate academic unit to determine whether or not a particular course is offered for challenge.

Where challenge for credit is offered, it is available under the following conditions:

1. Challenge for credit is available only to those students who have applied for admission or who are currently registered at the University.
2. Applications to challenge for credit are available at the Office of the Registrar. Completed applications must be submitted to the Office of the Registrar and must receive approval from the head of the academic unit offering the course(s). The academic unit may require documentary material from the student and/or an interview before making its decision whether or not to accept the challenge. The academic unit involved will be responsible for deciding the scheduling and appropriate method of evaluation, which may consist of a variety of possible modes of evaluation including written, practical and oral.
3. A student who has applied for transfer credit evaluation may not apply to challenge for credit until the transfer credit evaluation has been completed.
4. Memorial University of Newfoundland will consider for credit courses that have been granted credit through a challenge for credit process by another recognized university or college. Award of credit will be subject to University Regulations and evaluation and recommendation by the appropriate academic unit(s).
5. For the purpose of satisfying the regulations residence requirements for a first degree and residence requirements for a second degree under **General Academic Regulations (Undergraduate)**, a successful challenge for credit shall be considered the equivalent of a transfer credit and shall be recorded on the transcript as a pass (PAS). Challenge grades are not included in averages. For further information refer to **Residence Requirements for a First Degree** and **Residence Requirements for a Second Degree**.
6. The appropriate fee must be paid at the time of application. For further information refer to **Fees and Charges**. If the application is accepted for consideration, the fee is not refundable nor is the student permitted to withdraw the challenge.

4 Academic Advising

During their period of study at the University, students are expected to make some very important academic decisions, the consequences of which can significantly affect the course of their academic careers. While the responsibility for making these decisions rests with students individually, they are not expected to make such decisions without access to sound academic advice.

Students should seek advice on matters such as course selection, registration, dropping/adding course registrations, selecting/changing an academic program, entrance requirements for degree programs and interpretation of university regulations. It is especially true that students in the early stages of their degree program should seek academic advice.

Students who are considering enrolling at the University or who are in their first year of study at the University or who have not declared an academic program can obtain academic advice from the following sources: those students attending the St. John's Campus should contact the Academic Advising Centre, Office of the Registrar, located in the Science Building room SN 4053, at (709) 864-8801; those students attending the Grenfell Campus should contact the Manager, Academic Advising at the Office of the Registrar, located in the Arts and Science Building in room AS 270, at (709) 637-6298.

Students beyond their first year who have declared their major or have been accepted to a School or Faculty can obtain academic advice from a faculty adviser assigned by their School/Faculty/Department. Students should contact the head of the relevant academic unit to be assigned a faculty adviser.

Students are also encouraged to approach their professors for academic advice or for referral to the appropriate source of advice.

While it is the responsibility of students to see that their academic programs meet regulations in all respects, academic advice is provided as a service of the University.

5 General Academic Regulations (Undergraduate)

Memorial University of Newfoundland is governed by the principles of fairness, academic integrity and the timely provision of information and by regulations whose purpose is to ensure fair and equitable treatment for the entire University community. Some regulations deal with the normal workings of the University (continuance, registration deadlines, etc.) and pertain to all undergraduate students. Other regulations, however, especially those concerned with classification of degrees and academic conduct, apply to certain students in certain specific situations.

The Office of the Registrar will assist students with any questions or problems which arise concerning the interpretation of regulations. It is, however, the responsibility of the student to see that his or her program meets University regulations in all respects. Every student has the right to request waiver of **General Academic Regulations (Undergraduate)**. In addition, every student has the right to appeal decisions resulting from a request for waiver of **General Academic Regulations (Undergraduate)**. For further information refer to **Waiver of Regulations and Appeal of Regulations**.

Descriptions and regulations for individual programs can be found in the appropriate academic-unit section of this Calendar. The terminology is explained in the **Glossary of Terms Used in This Calendar**.

5.1 Classification of Students

1. Full-time students:

- a. Students who have been admitted to this University and who are registered for the duration of any semester in at least 9 credit hours or at least 5 credit hours in a session are deemed full-time students.
 - b. Notwithstanding the above and the regulations governing the Marine Institute technology diploma programs, students who have been declared as pre-Bachelor of Technology or pre-Bachelor of Maritime Studies are deemed full-time students if they are registered for either: three non-degree courses and a minimum of 3 degree credit hours, or two non-degree courses and a minimum of 6 degree credit hours.
 - c. Students who are registered for the duration of any semester in a co-operative education work term, the internship required of the Computer Industry Internship Option (CIIO), or the Structured Practice Experience required of the School of Pharmacy will be deemed full-time students.
 - d. Provided they had been admitted to the University, the members of the Executive of the Memorial University of Newfoundland Students' Union (MUNSU), the Grenfell Campus Student Union (GCSU) and the Marine Institute Student Union (MISU) shall be deemed, for the purpose of membership on University committees, the Senate and the Board of Regents, to be full-time students during their tenure.
2. **Part-time students** are students who have been admitted to the University and who are registered for fewer than 9 credit hours in any semester or fewer than 5 credit hours in any session.
 3. **First-year students** are students who have earned fewer than 18 credit hours.
 4. **Second-year students** are students who have earned from 18 to 47 credit hours inclusive.
 5. **Third-Year Students** are students who have earned from 48 to 77 credit hours inclusive.
 6. **Fourth-Year Students** are students who have earned from 78 to 107 credit hours inclusive.
 7. **Fifth-Year Students** are students who have earned not fewer than 108 credit hours.

5.2 Degree and Departmental Regulations

Every student seeking a bachelor's degree shall comply with all the course requirements governing the award of that degree.

5.2.1 Year of Degree and Departmental Regulations - Faculty of Arts and Faculty of Science

1. A student completing a degree program in the Faculty of Arts or in the Faculty of Science will normally follow the degree regulations in effect in the academic year in which the student first completes a course(s) at Memorial University of Newfoundland. However, the student may elect to follow subsequent regulations introduced during the student's tenure in a program.
2. In the case of departmental regulations for a major or minor, a student will normally follow regulations in effect in the academic year in which the student first completes a course in that subject at the 2000 level or above which may be applied to the major or minor program respectively. However, the student may elect to follow subsequent regulations introduced during the student's tenure in a program.

5.2.2 Year of Degree and Departmental Regulations - All Other Faculties and Schools

1. A student registered in any program, other than programs in the Faculty of Arts, programs in the Faculty of Science or in the Bachelor of Business Administration program offered by the Faculty of Business Administration, will normally follow regulations in effect in the academic year in which the student first completes a course(s) in the faculty or school following formal admission to that program. However, the student may elect to follow subsequent regulations introduced during the student's tenure in a program.
2. A student completing a Bachelor of Business Administration will normally follow the degree regulations in effect in the academic year in which the student first earns a total of 12 credit hours in Business courses at the 1000-level. However, the student may elect to follow subsequent regulations introduced during the student's tenure in a program.
3. A student in the Bachelor of Commerce (Co-operative) program, the International Bachelor of Business Administration program, or in the Faculty of Education, Faculty of Engineering and Applied Science, School of Nursing, Faculty of Medicine, School of Pharmacy, or School of Social Work, who fails to obtain promotion or is not registered for full-time studies for more than one semester and is readmitted to full-time studies in the faculty or school will normally follow regulations in effect at the time of readmission.
4. A student in the School of Music who is required to withdraw from the Bachelor of Music degree program for academic reasons, or who has withdrawn from the principal applied study course will normally follow regulations in effect at the time the student is readmitted to the School. However, the student may elect to follow subsequent regulations introduced during the student's tenure in a program.

5.2.3 Further Credentials

1. Students may obtain more than one undergraduate degree at this University but not in the same major subject. Students are also encouraged to consider proceeding to more advanced studies at the honours or graduate level.
2. A student will not be awarded the same bachelor's degree more than once by this University (e.g., if a student has been awarded a Bachelor of Arts degree from this University the student will not be awarded a second Bachelor of Arts degree from this University).
3. A student who has completed a Bachelor's degree from this University may complete the requirements for another major or minor. A notation indicating the completion of the requirements for the additional major or minor will be included on the student's academic record.
4. For further information refer to **Residence Requirements - Second Degree**.

5.2.4 Time Limits

1. Notwithstanding these regulations, the University may place limits on the time permitted to complete a program under any given set of regulations. In addition, detailed scheduling of courses and/or practical experience, e.g., work terms, internships, field placements, may be changed as the University deems appropriate or necessary.

5.3 Residence Requirements

5.3.1 General Information

1. Residence requirements are met by attendance at classes on a campus and/or by the number of credit hours completed at this University.

5.3.2 First Degree

1. For a first bachelor's degree students shall have completed a minimum of 24 credit hours through attendance at classes on the campus of a recognized university or university college. Distance education courses may be used to satisfy the requirements of this clause only for the degrees of Bachelor of Business Administration, Bachelor of Business Administration (Honours), Bachelor of Maritime Studies, Bachelor of Nursing (Post-RN) and Bachelor of Technology.
2. Students shall complete at this University the last 30 credit hours required for the degree. There are exceptions to this requirement as follows:
 - Where special circumstances warrant, and only if at least half the courses required for the degree are completed at this University, the appropriate committee on undergraduate studies may permit students to complete, at another recognized institution, not more than 15 of the last 30 credit hours or equivalent required for the degree. The courses which comprise those credit hours must be approved by the appropriate academic unit.
 - Courses taken at universities and/or colleges which are included in formal institutional exchange agreements with this University are not subject to the requirements of this clause.
 - Courses taken at Francophone universities, as required under specific degree program regulations, are not subject to the requirements of this clause.
3. Students who have taken courses in the subject of their major at another university are required to complete at least 12 credit hours in that subject at this University.

5.3.3 Second Degree

A student who has already completed a bachelor's degree may undertake a second bachelor's degree, but not in the same major, subject to the condition outlined below:

1. Every student for a second bachelor's degree, with the exception of students completing the Bachelor of Technology or Bachelor of Maritime Studies degrees, shall complete at least 30 credit hours at this University beyond those required for the first degree. These credit hours must be applicable to the degree sought. Students who have completed a first degree at this University may be permitted to take at another university up to 6 of the 30 credit hours required in this clause.
2. Students completing the Bachelor of Technology or Bachelor of Maritime Studies as a second degree must complete at least an additional 9 credit hours beyond their first degree and the work completed as required for admission to the Bachelor of Technology/ Bachelor of Maritime Studies degree. These credit hours must be applicable to the degree sought.

5.4 Registration

5.4.1 General Information

1. Students register using the Student Web/Self-Service at www.mun.ca/regoff/.
2. No student may register after the end of the registration period. In the case of accelerated courses and courses offered outside the normal time frame of a semester or session the registration period will be prorated with respect to all associated deadlines.
3. The University reserves the right to require a student to withdraw without academic prejudice from a course, courses, or program in which the student is improperly registered.

5.4.2 Student Responsibility

1. Students are strongly encouraged to seek academic advice before registering.
2. The responsibility for taking all steps necessary for registering and ensuring that a student's registration is appropriate, correct, and proper rests solely with the student. The University will make every effort, through its various academic counselling and advising services, to ensure that students are informed of the suitability and accuracy of their registrations.
3. Students must register for courses at or after the assigned registration time and before the end of the registration period as defined in the **University Diary**.

5.4.3 Registration Priority

1. The University uses a registration priority system that assigns the date and time that students register. Priority for registration is determined by a combination of three factors: closeness to graduation (i.e., number of credit hours completed); a student's academic achievement (i.e., GPA), and a student's program of study (i.e., degree, major, minor).
2. Academic units may reserve spaces in course sections for students in a particular degree, major, minor, or the like.
3. For further information on registration priority consult the publication *Undergraduate Registration Procedures*.

5.4.4 Adding Courses

5.4.4.1 General Information

- Specific deadlines for adding courses in any semester or session are stated in the **University Diary**. In the case of sessions, accelerated courses, and courses offered outside the normal time frame of a semester or session, deadlines for adding courses will be prorated accordingly.
- No course will be considered to have been added until the Registrar has received official notification and certified the add.
- Attending classes or informing an instructor of the intent to add a course does not constitute an official adding of a course.
- Only under special circumstances may a course(s) be added after the end of the registration period. For information contact the Office of the Registrar.

- Before the end of the registration period a student may, upon formal notification to the Registrar, change the course(s) for which he or she was originally registered by adding and/or dropping a course(s).

5.4.5 Course Weight/Course Load

Course load is the sum of course weights. In a session the course load is double. For the purposes of determining course load, each course is weighted with the credit hour value associated with that course, unless otherwise specified as follows:

- The course weight of each of the A and B components of a linked course shall be equivalent to one half of the credit hour value of the B component.
 - The course weight of courses with C or F as the last character shall be three.
 - The course weight of courses with W as the last character will vary according to individual program requirements.
1. **Semester Course Load:** The normal course load in a semester shall be 15 credit hours, except where academic regulations require more than that number. No student shall register for more than 15 credit hours or more credit hours than required by degree regulations in a semester except with the written permission of the dean, division head, vice-president or associate vice-president of the student's faculty, school, or campus.
 2. **Session Course Load:** The normal course load in a session shall be 6 credit hours. No student shall register for more than 6 credit hours in a session except with the written permission of the dean, division head, vice-president or associate vice-president of the student's faculty, school, or campus.

5.4.6 Dropping Courses

5.4.6.1 General Information

- Specific deadlines for dropping courses in any semester or session are stated in the **University Diary**. In the case of sessions, accelerated courses, and courses offered outside the normal time frame of a semester or session, deadlines for dropping courses without academic prejudice will be prorated accordingly.
- No course will be considered to have been dropped until the Registrar has received official notification and certified the drop.
- Ceasing to attend classes, or informing an instructor of the intent to drop a course, does not constitute an official dropping of a course.
- A student who drops all courses in any given semester will be considered to have withdrawn from the University for that semester. A student who has withdrawn from the University, before the start of classes in any semester, is deemed to be not registered for that semester. For information regarding applying for readmission to the University refer to **Admission/Readmission to the University (Undergraduate)**.
- In the event that a student drops a co-requisite course, the student will be required to drop the course for which that course is a co-requisite.
- Before the end of the registration period a student may, upon formal notification to the Registrar, change the course(s) for which he or she was originally registered by adding and/or dropping a course(s).

5.4.6.2 Dropping Courses Without Academic Prejudice

- Until the end of the second week following the first day of lectures in any semester, a student may, upon formal notification to the Registrar, drop a course without academic prejudice. A course dropped under these circumstances will not be entered on the student's record.
- From the beginning of the third week to the end of the seventh week following the first day of lectures in any semester, a student may, upon formal notification to the Registrar, drop a course without academic prejudice. A grade of DR will be assigned in these circumstances and will be entered on the student's record.
- From the beginning of the eighth week following the first day of lectures in any semester to the last day to add courses in the following semester, a student who is prevented from completing the requirements of a course by illness, bereavement, or other acceptable cause, duly authenticated in writing, may drop a course without academic prejudice. This may occur only with the approval of both the course instructor and the head of the academic unit of the student's program or in the case of students who have not declared a program, the head of the academic unit of the course in question. A grade of DR will be assigned in these circumstances and will be entered on the student's record.

5.4.6.3 Dropping Courses With Academic Prejudice

Students dropping courses except under the provisions outlined under **Dropping Courses Without Academic Prejudice** will have the letter grade of DRF and a numeric grade of 0% entered on his or her record for each course dropped.

5.4.6.4 Work Terms

Students registered for a co-operative education work term should refer to the appropriate academic-unit section of this calendar with respect to regulations regarding work terms.

5.4.6.5 Tuition Fee Implications

- A student who drops a course within two weeks following the first day of lecture in any semester will not be liable for tuition fees for that course. Tuition fee refunds for dropping courses after that period will be prorated in accordance with **Fees and Charges - Tuition Refunds Based on Withdrawal from Course(s)**.
- In the case of sessions, accelerated courses, and courses offered outside the normal time frame of a semester or session, deadlines for dropping courses without financial liability will be prorated accordingly.

5.4.7 Withdrawing from the University

5.4.7.1 General Information

- A student who drops all courses in any given semester will be considered to have withdrawn from the University for that semester. A student who has withdrawn from the University, before the start of classes in any semester, is deemed to be not registered for that semester. For information regarding applying for readmission to the University refer to **Admission/Readmission to the University (Undergraduate)**.

- A withdrawal is not official until the Registrar has received official notification and certified the changes.
- Ceasing to attend classes, or informing an instructor of the intent to drop a course, does not constitute an official withdrawal.

5.4.7.2 Withdrawing from the University Without Academic Prejudice

- Until the end of the second week following the first day of lectures in any semester as stated in the **University Diary**, a student may, upon formal notification to the Registrar, withdraw from the University without academic prejudice. Courses dropped under these circumstances will not be entered on the student's record.
- From the beginning of the third week to the end of the seventh week following the first day of lectures in any semester as stated in the **University Diary**, a student may, upon formal notification to the Registrar, withdraw from the University without academic prejudice. The letter grade DR will be assigned to all courses in these circumstances.
- From the beginning of the eighth week following the first day of lectures in any semester to the last day to add courses in the following semester as stated in the **University Diary**, a student who is prevented from completing the semester by illness, bereavement, or other acceptable cause, duly authenticated in writing, may withdraw from the University without academic prejudice. This may occur only with the approval of the dean, division head, vice-president or associate vice-president of the student's faculty, school, or campus and upon formal notification to the Registrar. The letter grade DR will be assigned to all courses in these circumstances.
- In the case of sessions, accelerated courses, and courses offered outside the normal time frame of a semester or session, deadlines for withdrawing from the University will be prorated accordingly.
- Students who withdraw from the University for medical reasons for one or more semesters may not be permitted to re-enter unless they can provide medical evidence, satisfactory to the Director of Student Health Service, of fitness to pursue studies.

5.4.7.3 Withdrawing from the University With Academic Prejudice

Any student withdrawing from the University except under the provisions outlined under **Withdrawing from the University Without Academic Prejudice** will have the letter grade DRF and a numeric grade of 0% entered on his or her record for each course withdrawal.

5.4.7.4 Work Terms

Students registered for a co-operative education work term should refer to the appropriate academic-unit section of this calendar with respect to regulations governing withdrawing from work terms.

5.4.8 Auditing of Courses

1. Individuals auditing courses must have met the University's admission or readmission requirements as stated in **Admission/Readmission to the University (Undergraduate)**.
2. In order to audit any course, an individual must receive permission from the instructor in that course and the head of the academic unit in which the course is offered. Permission cannot be given until the number of registrations is known. Factors to be considered shall include class size, impact on students registered for credit, and other matters judged relevant by the academic unit.
3. Individuals auditing courses shall limit their participation to that deemed appropriate by the instructor.
4. Auditors are not permitted to write formal examinations or have their work formally assessed.
5. Audited courses will not be considered as meeting prerequisites, admission, or course requirements for any undergraduate programs, nor will audited courses be listed on the individual's transcript of University studies.

5.5 Attendance

1. Attendance regulations must be approved by the Senate and will be allowed only in cases where the academic unit has demonstrated that attendance is necessary for safety reasons, for teaching practical skills, or for attaining other clearly specified objectives. This may include an attendance regulation that may, by itself, cause a student who contravenes the regulation to fail or be dropped from a course.
2. The course where an attendance regulation is to be enforced must have the statement "attendance required" included in the calendar description.

5.6 Evaluation

5.6.1 Method of Evaluation

1. The method of evaluation in any course shall be determined by the academic unit subject to all University regulations.

5.6.2 Informing Students of the Method of Evaluation

1. The method of evaluation and required prerequisites or co-requisites shall be made known to students before the end of the first week of lectures in any semester or session.
2. This information shall be in typewritten or computer-generated format and shall be provided in paper form to the students present in each class during the first week of lectures. In the case of Web-based courses, this information may be provided electronically.
3. The following shall be included in the explanation of the method of evaluation:
 - the allocation of marks for all parts of the evaluation, e.g., assignments, laboratory projects, presentations, tests, mid-term examinations, final examinations;
 - the approximate dates of all parts of the method of evaluation that will take place in class, e.g., tests, mid-term examinations, presentations, and assignments;
 - the dates on which all parts of the evaluation to be completed out of class are due; and
 - whether deferred tests or mid-term examinations or extensions of deadlines for out-of-class work are permitted.
4. A student who is prevented from writing a test or mid-term examination or completing assigned work by the deadline, by illness or bereavement or other acceptable cause, duly authenticated in writing, may apply, in writing and with supporting documents, for an alternate evaluation. Normally, this application must be made within one week of the original date of the examination or deadline to the course instructor.
5. Methods used for notification of grades earned in all parts of the method of evaluation and for the return of graded evaluative

instruments will be in keeping with the Access to Information and Protection of Privacy Act.

- When it is determined that there will be a common final examination for day and evening sections of a course, students must be so informed in the explanation of the method of evaluation for the course and prior to the end of the registration period.

5.6.3 Changing the Method of Evaluation

- The explanation of the method of evaluation, as made available to the class in the first week of lectures, shall be changed only if:
 - exceptional circumstances warrant the change; and
 - the head of the academic unit approves the proposed change; and
 - accommodation is made for students who demonstrate to the faculty member that they are disadvantaged by the change.

5.6.4 Good Writing Skills

- Regardless of the method of evaluation, good writing skills are required for effective communication. Students are, therefore, expected to demonstrate proficiency in logical organization, clarity of expression and grammatical correctness in their writing. For further information refer to **Grading - Good Writing**.

5.6.5 Completing a Course

- When it is prescribed that students, once registered, must complete a particular course, it is understood that they shall, when required, attend lectures given in the course, perform laboratory projects, and exercises that may be assigned and any other written or oral exercises prescribed, write or otherwise answer tests and examinations given in the course throughout the semester or session, including any final examinations, and shall obtain an overall passing grade in the course in accordance with the prescribed evaluation procedures.

5.6.6 Correction and Return of Student Work

- Provided that students submit work by the due date outlined in the method of evaluation, instructors shall mark and return work that is worth a total of 20% of the final grade before the last day to drop courses without academic prejudice. This excludes practicums, placements, internships, theses, and courses where a single piece of work is used to determine the entire mark for the course.
- In courses where evaluation includes a final examination, provided that students submit work by the due date outlined in the method of evaluation, instructors shall make all reasonable efforts to mark and return all work before the beginning of the examination period.

5.7 Examinations

5.7.1 Scheduling of Examinations

- No laboratory examinations totalling more than one laboratory period in length shall be given in any laboratory course in any week during a lecturing period in any semester or session. Such examinations shall be administered in the laboratory time period assigned for that course section. The application of this clause in the Faculty of Engineering and Applied Science and the Faculty of Medicine is subject to interpretation by the appropriate committee on undergraduate studies. The Senate Committee on Undergraduate Studies may grant a waiver of this clause for laboratory examinations in individual courses in a given term upon recommendation of the appropriate committee on undergraduate studies. Such waivers will be considered only if it can be shown that such laboratory examinations do not conflict with regularly scheduled sessions of another course for any student involved.
- Any other examinations shall not extend beyond the class period assigned to that course section in any week during a lecturing period in any semester or session. The application of this clause in the Faculty of Engineering and Applied Science and the Faculty of Medicine is subject to interpretation by the appropriate committee on undergraduate studies. The Senate Committee on Undergraduate Studies may grant a waiver of this clause for examinations in individual courses in a given term upon recommendation of the appropriate committee on undergraduate studies. Such waivers will be considered only if it can be shown that such examinations do not conflict with regularly scheduled sessions of another course for any student involved.
- During the last two weeks of the lecturing period in any semester or the last week of the lecturing period in any session, no examinations or assignments, whether in-class or take home, shall be administered or assigned. However, assignments of which students have been notified under **Evaluation** may be submitted and oral and laboratory examinations may be administered. Courses taught outside the regular time-frame are exempt from the application of this regulation. The appropriate faculty or school undergraduate studies committee may, upon the recommendation of the head of an academic unit, grant a waiver of this clause with the proviso that the total value of all examinations or assignments thereby permitted in a course shall not exceed 20% of the final mark in that course. Such waivers will be considered only in exceptional circumstances or in the case of particular courses where it can be shown that the nature of the course determines the need for evaluation during the normally prohibited period. In the latter case, students must be notified of the method of evaluation in accordance with **Evaluation**. At the end of each semester, the Senate Committee on Undergraduate Studies must be notified of waivers granted.
- No examinations of any nature shall be held between the last day of lectures and the start of the formal examination period in any semester or session. The application of this clause to the Faculty of Education (with respect to accelerated courses), the Faculty of Medicine, the School of Human Kinetics and Recreation (with respect to accelerated courses and courses offered outside the normal time frame during the Spring semester) and the School of Nursing is subject to interpretation by the appropriate committee on undergraduate studies.
- In the event of an officially declared emergency which results in the cancellation or interruption of in-class examinations or tests previously scheduled and notified to be held in the final class period of the third last week of lectures of a semester or the second last week of lectures of a session, teaching units may reschedule such examinations or tests in the next regularly scheduled class or as early as possible in the second last week of lectures of a semester or the last week of lectures of a session. In no circumstances can the rescheduled examinations or tests be held in the last week of lectures of a semester.

5.7.2 Scheduling of Final Examinations

- Final examinations, if any, whether of the normal two-hour duration or longer, shall be held in each course at the end of the semester during which it was given in accordance with the schedule of examinations published by the Office of the Registrar. The application of this clause to the Bachelor of Education (Intermediate/Secondary) and all degree programs offered by the School of Human Kinetics and Recreation is subject to interpretation by the appropriate committee on undergraduate studies.
- Normally, course sections offered during the day will have their final examinations, if any, scheduled in the day, and course sections

offered in the evening will have their final examinations, if any, scheduled in the evening. When a student is unable for good reason to write a final examination scheduled outside the provisions of this clause, the student will be entitled to write a deferred examination. For further information refer to **Exemptions From Final Examinations and Procedures for Applying to Write Deferred Examinations**.

3. When an academic unit determines that there will be a common final examination for day and evening sections of a course, students must be so informed in the explanation of the method of evaluation for the course and prior to the end of the registration period.
4. Where possible, academic units should inform the Office of the Registrar when they submit their class schedules if it is anticipated that a common final examination will be required for day and evening sections of a course, so that this information can be publicized in the class schedule for the appropriate semester. Academic units should indicate whether the examination is to be held during the day or the evening.

5.7.3 Exemptions From Final Examinations and Procedures for Applying to Write Deferred Examinations

1. A student who is prevented from writing a final examination by illness or bereavement or other acceptable cause, duly authenticated in writing, may apply, with supporting documents, to have the course graded or have the final examination deferred. This application must be made within one week of the original date of the examination to the head of the appropriate academic unit.
2. The decision regarding the request of the student to have a course graded or have the final examination deferred, including information on the appeals route open to the student in the case of a negative decision, must be communicated in writing to the student and to the Registrar within one week of the receipt of the student's complete application. For further information refer to **Appeal of Regulations**.
3. In those cases where the academic unit accepts the extenuating circumstances the student may be permitted to write a deferred examination or, with the consent of both the academic unit and the student, the grade submitted may be based on term work alone. An interim grade of ABS will be assigned by the academic unit in the case of a student granted a deferred examination. This grade will be replaced by the final grade which must be received by the Registrar within one week following the start of classes in the next academic semester or session.
4. A student who is prevented from writing a deferred examination by illness, bereavement, or other acceptable cause, duly authenticated in writing, may apply, with supporting documents, to the head of the appropriate academic unit to have the deferred examination further deferred. This application must be submitted within one week of the scheduled date of the deferred examination. The examination will be postponed to a time not later than the last date for examinations in the semester following that in which the student was enrolled in the course.

5.7.4 Access to Final Examination Scripts

1. A student has a right to see his or her final examination script. However, the script is the property of the University and the University retains full possession and control of the script at all times. This regulation upholds the authority and judgement of the examiner in evaluation.
2. To access a final examination script, a student must make a written request to the head of the academic unit in which a course is offered. This request is subject to the following conditions:
 - Any such request must be made following release of examination results for the semester in which the course was taken and within one month of the official release of grades by the University.
 - The final examination script must be viewed in the presence of the course instructor or other person delegated by the head of the academic unit. Both the instructor and the student have the right to be accompanied by a registered student or a member of the faculty or staff of the University.
 - The final examination script must not be taken away or tampered with in any way.

5.7.5 Rereading of Final Examination Scripts

1. A student may apply to have a final examination script reread whether or not he or she has obtained a passing grade in that course.
2. A student who wishes to have a final examination script reread must make application in writing to the Office of the Registrar within one month of the official release of grades by the University. When a rereading is requested, the University will make every reasonable attempt to have the rereading conducted by a faculty member(s) other than the original marker(s). Students are advised to refer to relevant academic units for policies and procedures governing re-reads of examinations.
3. An appropriate fee per course must be paid at the time of application. For further information refer to **Fees and Charges - Reread of Final Examination Fee**. If the final numeric grade is raised after rereading, the fee is refunded. If the final numeric grade is unchanged or lowered, the fee is forfeited.

5.8 Grading

5.8.1 Letter Grades, Numeric Grades and Points Per Credit Hour

The academic standing of each student will be based upon the course(s) for which he or she was registered as of seven weeks following the first day of lectures in any semester. The final evaluation submitted to the Registrar shall consist of one of the following letter grades with the appropriate numeric grade and points awarded for each credit hour as follows:

Letter Grades	Numeric Grades	Points Per Credit Hour
A	80-100%	4
B	65-79%	3
C	55-64%	2
D	50-54%	1
F	below 50%	0
PWD (pass with distinction) - indicates excellent performance	no numeric grade	not applicable
PAS (pass) - indicates performance meets expectations	no numeric grade	not applicable
FAL (fail) - indicates failing performance	no numeric grade	not applicable
DR (drop) - drop without academic prejudice	no numeric grade	not applicable
DRF (drop fail) - drop with academic prejudice	0%	0
ABS (absent) - absent for acceptable cause	no numeric grade	not applicable
INC (incomplete) - incomplete pending final grade	no numeric grade	not applicable
AEG (aegrotat)	no numeric grade	not applicable

5.8.2 Descriptions of Letter Grades

- "A" indicates excellent performance with clear evidence of:
comprehensive knowledge of the subject matter and principles treated in the course,
a high degree of originality and independence of thought,
a superior ability to organize and analyse ideas, and
an outstanding ability to communicate.
- "B" indicates good performance with evidence of:
substantial knowledge of the subject matter,
a moderate degree of originality and independence of thought,
a good ability to organize and analyse ideas, and
an ability to communicate clearly and fluently.
- "C" indicates satisfactory performance with evidence of:
an acceptable grasp of the subject matter,
some ability to organize and analyse ideas, and
an ability to communicate adequately.
- "D" indicates minimally acceptable performance with evidence of:
rudimentary knowledge of the subject matter,
some evidence that organizational and analytical skills have been developed, but with significant weaknesses in some areas, and
a significant weakness in the ability to communicate.
- "F" indicates failing performance with evidence of:
an inadequate knowledge of the subject matter,
failure to complete required work,
an inability to organize and analyse ideas, and
an inability to communicate.

5.8.3 Good Writing

1. Students at all university levels should have reasonably sophisticated and effective communication skills and are expected to demonstrate proficiency in logical organization, clarity of expression and grammatical correctness. Good writing is expected of students in all courses. Upon graduation students should be capable of expressing complicated ideas clearly and concisely and should be able to develop arguments in a logical manner. When, in the judgement of the instructor, a student persistently fails to display a reasonable standard of writing, the instructor may consider this when assigning a final grade.
2. Good writing is characterized by the following qualities:
 - **Content**
critical insight and freshness of thought,
clear and penetrating ideas,
perceptive, pure grasp of subject,
intelligent use of primary and secondary sources, and
a sense of completeness about the handling of the topic.
 - **Organization**
effective introduction and conclusion,
main idea is clear and logical development follows,
smooth transitions, and

good use of details.

- **Style**

appropriate, accurate, precise and idiomatic diction, and sentences varied in kind, length and effect.

- **Mechanics**

consistently correct spelling, accurate use of punctuation, grammatically correct sentences, and well organized paragraphing.

5.8.4 Linked Course

1. A linked course is a course comprising two components and is normally identified by the letter "A" or "B" as the last character of the course number. No credits or points are assigned to the "A" part of a linked course. No credits or points are given until the "B" part is completed. Credits and points will be awarded upon successful completion of the B part and will be attributed to the B part only.

5.8.5 Incomplete Grades

1. A student who, for extenuating circumstances, is unable to complete the requirements of a course may, with the approval of the appropriate academic unit, be granted a letter grade of incomplete (INC) in the course. This grade shall be valid for only one week following the start of classes in the next academic semester or session as stated in the **University Diary**. In the event that a numeric grade has not been received by the Registrar by this deadline the INC shall be changed to the letter grade F with a numeric grade 0%.
2. Students unable to complete the requirements of a course by the end of one week following the start of classes in the next academic semester or session as stated in the **University Diary**, may be permitted an extension of time not exceeding the end of the semester following that in which the INC was given. Such an extension may be granted by the appropriate committee on undergraduate studies, on the recommendation of the academic unit. In special circumstances, students registered for a Social Work Internship may be given an extension not exceeding two semesters. Students registered in one of HKR 2210, 2220, 3210, 3220, 4210 or 4220 may be given an extension not exceeding three semesters, by the Academic Council of the School of Human Kinetics and Recreation.

5.8.6 Calculation of Averages

Only courses evaluated using final grades with associated numeric grades and points are included in the calculation of all averages. In calculating current averages the grades obtained in the A part of linked courses shall be included, while the grades obtained in foundation courses and work terms shall be excluded. Credit received as a result of transfer credit and challenge for credit are not included in the calculation. These calculations may be expressed as averages or grade point averages.

1. Current average: is a method of expressing a student's performance for the semester. The current average is based on final grades. The current average is calculated by computing the sum of the numeric grade in each course multiplied by the course weight and dividing that sum by the total of the course weights.
2. Cumulative average: is a method of expressing a student's performance over his or her academic career recorded since the beginning of the 1980-81 academic year. Where any given course, or an equivalent or cross-listed course, is attempted two or more times and is not repeatable, only the best attempt is included in the average. The cumulative average is calculated by computing the sum of the numeric grade in each course multiplied by the credit hour value and dividing that sum by the total number of credit hours attempted.
3. Current grade point average: is a method of expressing a student's performance for the semester. The points associated with each letter grade are multiplied by the course weight. The current grade point average is calculated by dividing the total number of grade points earned by the total of the course weights.
4. Cumulative grade point average: is a method of expressing a student's performance over his or her academic career recorded since the beginning of the 1980-81 academic year. Where any given course, or an equivalent or cross-listed course, is attempted two or more times and is not repeatable, only the best attempt is included in the average. For each course used in the calculation, the points associated with each letter grade are multiplied by the course credit hour value. The cumulative grade point average is calculated by dividing the total number of points earned by the total number of credit hours attempted.

5.8.7 Aegrotat Status

1. Students in their final semester or session before graduation, who have been absent from a final examination where one has been scheduled or who have been prevented from completing the semester's or session's work, for reasons which qualify them to write a deferred examination, may, in exceptional circumstances, be given credit for the course on the recommendation of the Senate Committee on Undergraduate Studies.
2. Application for aegrotat status, with full details duly authenticated, must be made to the Registrar, indicating each course for which the application is being made, within one week after the last day of final examinations.

5.9 Dean's and Vice-President's List

5.9.1 General Information

Memorial University of Newfoundland acknowledges the academic success of its students in various ways. One of these is by naming students to the appropriate dean's or vice-president's list. Annually, every academic unit will name to its list a maximum of 10% of its students, selected on the basis of academic performance in the nominating period.

5.9.2 Procedure and Criteria

1. At the end of the Winter semester, academic units will nominate students to the appropriate list based on academic performance in the three preceding semesters, Spring, Fall, and Winter.
2. Students on the dean's and vice-president's list will be selected based on the following minimum criteria:
 - The student must have obtained a grade point average of at least 3.5 in the credit hours completed in the preceding Spring, Fall, and Winter semesters.

- The student must have attended full-time in at least two of the three preceding semesters.
 - The student must have successfully completed at least 27 credit hours over the preceding Spring, Fall, and Winter semesters, although an academic unit may require that the 27 credit hours be completed in any two of the three preceding semesters.
 - In consideration of specific program requirements, individual academic units may include students who have successfully completed, over the three preceding semesters, a course load other than 27 credit hours, but which is consistent with the course load defined by the program.
3. A notation will be placed on the student's transcript indicating that the student has been named to the dean's or vice-president's list.

5.10 Continuance and Readmission

These regulations will be applied at the end of each semester to any student who is registered in a course load of at least 9 credit hours on the last day for adding courses in a semester or session, including a student who later drops courses and changes status to that of a part-time student.

5.10.1 Eligibility for Continuance

5.10.1.1 Academic Criteria for Continuance in the University

At the end of each semester, in order to be eligible for continuance in the University, a student is required either:

- to obtain a current average of 50% in the courses for which he or she is registered on the last day for dropping courses without academic prejudice, or
- to have obtained a cumulative average of at least 55%.

5.10.1.2 Academic Criteria for Continuance in Programs of Study

- Most academic units have separate promotion or advancement criteria for continuation of students in specific programs of study. Students are advised to check the regulations of the appropriate academic unit for details. The appropriate committee on undergraduate studies may, at any time, require a student to withdraw for academic reasons.

5.10.1.3 Other

- Students who meet the academic criteria for continuance in the University but who have not registered for courses for two or more consecutive semesters are required to apply for readmission to the University in accordance with the **Admission/Readmission to the University (Undergraduate)** regulations.
- These regulations notwithstanding, the continuance of any student at this University is subject to all University regulations.

5.10.2 Academic Warning

1. Any student who, for the first time, fails to meet the requirements outlined under **Eligibility for Continuance - Academic Criteria for Continuance in the University** will be given an academic warning.
2. Certain conditions may be set for students who have been given an academic warning. Any conditions will be set by the head of the appropriate academic unit and will be administered in conjunction with the Registrar. These conditions may include, but are not limited to the following:
 - restrictions on course load,
 - enrollment in courses designed to improve academic competence,
 - involvement with programs designed to enhance success in university studies, such as those which teach time management, study, or similar skills,
 - regular meetings with a faculty advisor.

5.10.3 Ineligibility for Readmission

1. Any student who has previously been given an academic warning and who again fails to meet the requirements, as outlined under **Eligibility for Continuance - Academic Criteria for Continuance in the University**, at this or another recognized university or college, will not be eligible for readmission to the following two semesters.
2. Any student who has previously been given an academic warning and who fails, for the second time, to meet the requirements, as outlined under **Eligibility for Continuance - Academic Criteria for Continuance in the University**, at this or another recognized university or college, will not be eligible for readmission to the following three semesters. To be considered for readmission after this period, the student will need the recommendation of the head of the appropriate academic unit, or, in the case of a student with an undeclared program of study, a senior faculty advisor.
3. Any student who fails, for the third time, to meet the requirements, as outlined under **Eligibility for Continuance - Academic Criteria for Continuance in the University**, at this or another recognized university or college, will be considered for readmission only on appeal following a period of withdrawal of at least six semesters. This appeal will be considered by the Senate Committee on Undergraduate Studies only on the recommendation of the head of the appropriate academic unit, or in the case of a student with an undeclared program of study, a senior faculty advisor.
4. Certain conditions may be set for students who are readmitted after a period of ineligibility. These conditions are outlined under **Academic Warning**.
5. Academic units reserve the right to deny readmission where a student has been determined to have engaged in unprofessional conduct. The code of ethics of the appropriate profession will serve as the guidelines when making this determination. However, should there not be an appropriate code of ethics, the following standard will apply: unprofessional conduct is that conduct which involves a breach of the duties required by professional ethics.
6. The University reserves the right to deny a student readmission where, in the opinion of the Senate Committee on Undergraduate Studies, following appropriate professional consultation, there is a reasonable likelihood that the student's health or behaviour could endanger the lives, health, or safety of other persons on-campus or off-campus where such a location pertains to University studies. If the University denies a student readmission, the student must be advised of the nature of the case, must be provided with an opportunity to answer the case, and must be advised of the right to appeal before the penalty imposed takes effect. For information regarding the appeal procedure refer to **Appeal of Regulations**.
7. These regulations notwithstanding, the readmission of any student at this University is subject to all University regulations.

5.11 Academic Misconduct

5.11.1 Principles

Within the University community there is a collective responsibility to maintain a high level of scholarly integrity. Students are expected to adhere to those principles which constitute proper academic conduct. Academic misconduct cannot be condoned or even appear to be condoned. Students have the responsibility to know which actions, as described under **Academic Offences**, could be construed as dishonest or improper. Students are reminded that for further guidance on proper scholarly behaviour they should seek advice from their instructors and faculty advisors.

5.11.2 General Information

1. These procedures shall apply to all academic offences relating to undergraduate studies involving, but not limited to, those students who either have been or who are enrolled at Memorial University of Newfoundland. Notification of an allegation of academic misconduct will be forwarded to the last known mailing address of the student as noted on the files at the Office of the Registrar, and to the official University email address of the student. The University reserves the right to implement action under these procedures where an allegation has been made against a student but where reasonable efforts to contact the student are unsuccessful.
2. Meetings and interviews stipulated in this regulation will be held in person, or at a distance using telephone or other interactive technologies.
3. A student who wishes to attend classes, laboratories or other educational activities while an investigation under these procedures is being carried out, can do so only with the written permission of the academic unit concerned. Permission to do so will only be granted with the understanding that if the allegation of academic misconduct is proven and the penalty involves either suspension or expulsion, credit will not be granted for work completed prior to a finding of guilt. This provision excludes students charged with an offence under the *Code of Student Conduct*. For information regarding the *Code of Student Conduct* contact the **Office of Student Affairs and Services**.
4. Although a student can continue in a program of studies, if eligible, while an investigation under these procedures is being carried out, the University does not accept liability for any consequences to the student's progress. However, the University may take these consequences into account, as appropriate and to the extent feasible, in cases where charges are dropped or the student is not found guilty. The consequences arising from an investigation and any negative decision rendered may include retroactive effects on grades or promotion within a program.
5. A student accused of academic misconduct may consult advisors or facilitators. Such advisors may include a representative from a Memorial University of Newfoundland student union, an international student advisor, a faculty advisor, a University counselor or a faculty member who is familiar with these Regulations and who is willing to undertake the role of advisor whether resolution is sought through **Procedures for Resolution of Alleged Academic Offences at the Unit Level** or **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies**.

5.11.3 General Procedure

1. When a member of the University community (faculty, staff, student) has grounds for belief that an academic offence has been committed there should be an attempt between the parties concerned to resolve allegations of minor offences. If the alleged offence is not deemed to be minor by the accuser, or resolution proves impossible, or one party is dissatisfied with the resolution, the matter shall be reported, without delay, to the head of the appropriate academic or administrative unit. If resolution is achieved and it is agreed that an academic offence has been committed, then the offence, together with the penalty applied, shall be reported to the head of the academic or administrative unit.
2. Where resolution is not achieved, and if in the judgment of the head of the academic or administrative unit, the alleged offence warrants resolution at the unit level, the individuals involved will be advised to attempt to resolve the matter through **Procedures for Resolution of Alleged Academic Offences at the Unit Level**. In the event that no resolution is possible through these procedures between the individual parties, the head of the academic or administrative unit will institute proceedings through the Senate Committee on Undergraduate Studies.
3. If, in the judgment of the head of the academic or administrative unit, the alleged offence against University regulations is such as to warrant resolution through the Senate Committee on Undergraduate Studies, the head of the academic or administrative unit will refer the matter to the Secretary of the Senate Committee on Undergraduate Studies, and **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies** will be implemented.
4. In all cases, it is the responsibility of the academic or administrative unit to ensure that fairness and impartiality are achieved in the treatment of students.

5.11.4 Academic Offences

1. In the following section the plural shall be deemed to include the singular.
2. Academic offences shall be deemed to include, but shall not be limited to, the following:
 - Cheating on examinations or any other tests, theses, assignments, work term reports, projects or internship reports: includes copying from another student's work or allowing another student to copy from one's own work; consulting with any unauthorized person during an examination or test; using unauthorized aids; or knowingly recording or reporting false empirical or statistical data. The work referred to includes examinations, theses, assignments, work term reports, projects, internship reports, or any other tests which are to be used in judging the student's performance in a course or program of study, or on any special tests which the University may offer.
 - Impersonating another student or allowing oneself to be impersonated: includes the imitation of a student or the entrance into an arrangement with another person to be impersonated for the purposes of taking examinations or tests or carrying out laboratory or other assignments.
 - Plagiarism: is the act of presenting the ideas or works of another as one's own. This applies to all material such as essays, laboratory reports, work term reports, design projects, seminar presentations, statistical data, computer programs, research results and theses. The properly acknowledged use of sources is an accepted and important part of scholarship. Use of such material without acknowledgment is contrary to accepted norms of academic behaviour. Information regarding acceptable writing or by email practices is available through the Writing Centre at www.mun.ca/writingcentre/about/.
 - Theft of examination papers or other material: includes obtaining by any improper means examination papers, tests, or any other such material.
 - Use and/or distribution of stolen material: includes the use of material which the student knows to have been improperly obtained and/or the distribution of such material.

- Submitting false information: includes falsifying academic forms or records, submitting false credentials, medical or other certificates, or making a false, misleading or incomplete declaration to the University.
- Submitting work for one course or work term which has been or is being submitted for another course or work term at this or any other institution without express permission to do so: includes the presentation of an essay, report or assignment to satisfy some or all of the requirements of a course when that essay, report, or assignment has been previously submitted or is concurrently being submitted for another course without the express permission of the professor(s) involved.
- Failure to follow relevant University/Faculty/School guidelines on ethics.

5.11.5 Procedures for Resolution of Alleged Academic Offences at the Unit Level

5.11.5.1 General Information

These procedures will not be applied to cases involving alleged offences on final examinations, any other evaluative instruments worth 40% or more of the final grade, allegations of impersonation or allegations of submission of forged documents. Such alleged offences are governed by the **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies**.

5.11.5.2 Explanation of Procedures

If, upon receiving a report of an alleged academic offence, the head of the academic or administrative unit decides that an attempt should be made to resolve the matter at the unit level the following procedures shall apply:

- Normally within one week of notification, the head of the appropriate academic or administrative unit shall request a meeting with the accuser and the accused and at the meeting the head shall state the allegation, review the **Procedures for Resolution of Alleged Academic Offences at the Unit Level** including the range of applicable penalties, and arrange a second meeting between the accuser and the accused only.
- At the second meeting the accuser and accused shall endeavour to obtain a mutually satisfactory resolution of the matter.
- The accuser and accused shall report jointly to the head of the academic or administrative unit on the result of their second meeting.
- If the report is of a resolution which the head of the academic or administrative unit considers to be fair and equitable the matter shall be considered closed. If the head of the academic or administrative unit considers the reported resolution to be unfair and/or inequitable he or she will endeavour to obtain an alternative satisfactory resolution directly with the parties.
- Should all reasonable efforts to obtain a resolution at the unit level fail, the head of the academic or administrative unit will refer the case to the Secretary of the Senate Committee on Undergraduate Studies and shall inform the accuser and the accused accordingly. From this stage onward **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies** will apply.
- At any stage of the Procedures for Resolution of Alleged Academic Offences at the Unit Level, the student may ask that his or her case be referred to the Secretary of the Senate Committee on Undergraduate Studies, and thereafter the **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies** will apply.
- Should the accused be found guilty, a brief description of the offence and the penalty(ies) applied shall be forwarded by the head of the academic or administrative unit to the Office of the Registrar.

5.11.5.3 Failure to Appear or Respond

- If at any stage of the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, the accused fails to respond to a charge, without reasonable cause, within two weeks of notification of an allegation, action may be taken on the charge in the absence of the accused.
- If at any stage of the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, the accuser fails to appear at a scheduled meeting to defend an allegation, without reasonable cause, the action will be dismissed.

5.11.5.4 Penalties in the Case of Resolution at the Unit level

A student who has been found guilty of an academic offence will be subject to a penalty or penalties commensurate with the offence. Some cases may warrant more than one penalty for the same offence, and previous academic misconduct will be taken into account in determining the severity of penalties. The range of penalties and their determination are:

- Resubmission of work with appropriate reduction in grade: will allow a student to complete and submit the work a second time.
- Reprimand: will be in the nature of a warning by the head of the academic or administrative unit to the student that the student's behaviour has been unacceptable to the University.
- Reduction of grade: will apply to an examination, test, or assignment to which an offence is relevant, and will be decided by the head of the academic or administrative unit.

5.11.6 Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies

5.11.6.1 General Information

If the matter cannot be resolved following the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, or if, in the opinion of the head of the academic or administrative unit, the allegation involves a major breach of University regulations, or in cases involving alleged offences on final examinations, evaluative instruments worth 40% or more of the final grade, allegations of impersonation or allegations of submission of forged documents, the following **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies** shall apply. In the application of these procedures, in the case of students attending Grenfell Campus, the Grenfell Campus Sub-committee of the Senate Committee on Undergraduate Studies shall assume the role and authority defined below for the Senate Committee on Undergraduate Studies.

5.11.6.2 Explanation of Procedures

- If the head of the academic or administrative unit (in the case of departmentalized faculties, the head in consultation with the dean) is satisfied that the student has a serious allegation to answer, that person shall inform the student in writing or at the official University email address of the student, normally within one week, of the nature of the allegation against him or her. In addition, the head of the academic or administrative unit shall report to the Secretary, Senate Committee on Undergraduate Studies, c/o Office of the Registrar, who will, normally within one week, appoint as an investigator a Chair of a Faculty/School Committee on

Undergraduate Studies other than the Chair of that Faculty/School's Committee. The investigator will interview separately the accuser, the accused and relevant witnesses. At these interviews the investigator, the accuser, the accused and relevant witnesses all have the right to be accompanied by a registered student or a member of the faculty or staff of the University.

- Upon completion of these interviews, the investigator shall submit a written report of all findings to the Secretary, Senate Committee on Undergraduate Studies, c/o Office of the Registrar. Normally, the report will be submitted within four weeks of appointment as an investigator.
- The Secretary of the Senate Committee on Undergraduate Studies shall present this report to both the accuser and accused for perusal and comment. Once in receipt of this report, the accuser and accused shall have two weeks in which to submit to the Secretary, Senate Committee on Undergraduate Studies any additional comments on the report that the person wishes to be considered in the deliberations of the Senate Committee on Undergraduate Studies.
- The Secretary of the Senate Committee on Undergraduate Studies shall present to the Senate Committee on Undergraduate Studies for decision all information received from the investigator as well as comments from the accuser and accused. The investigator shall attend the meeting held to consider the case to answer questions raised by the Senate Committee on Undergraduate Studies and to provide information pertinent to the case, but shall be absent from the voting process.
- Once a vote is taken, should the accused be found guilty, the Senate Committee on Undergraduate Studies shall take appropriate action in accordance with **Penalties in the Case of Resolution by the Senate Committee on Undergraduate Studies**.

5.11.6.3 Failure to Appear or Respond

- If at any stage of the **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies**, the accused fails to respond to a charge, without reasonable cause, within two weeks of notification of an allegation, action may be taken on the charge in the absence of the accused.
- If at any stage of the **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies**, the accuser fails to appear at a scheduled interview to defend an allegation, without reasonable cause, the action will be dismissed.

5.11.6.4 Penalties in the Case of Resolution by the Senate Committee on Undergraduate Studies

A student who has been found guilty of an academic offence will be subject to a penalty or penalties commensurate with the offence. Some cases may warrant more than one penalty for the same offence, and previous academic misconduct will be taken into account in determining severity of penalties. Enforcement of penalties resulting from **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies** will be overseen by the Registrar. In addition to a Reprimand, which shall be in the nature of a warning by the Senate Committee on Undergraduate Studies to the student that the student's behavior has been unacceptable to the University, the range of penalties and their determination is:

- Reduction of grade: will apply to an examination, test, or assignment to which an offence is relevant, or to the entire course, and will be decided by the Senate Committee on Undergraduate Studies.
- Rescinding of scholarships, bursaries or other awards: the recommendation for rescinding of scholarships, bursaries or other awards will be made by the Senate Committee on Undergraduate Studies to the Senate Committee on Scholarships and Awards for a final decision. The Senate Committee on Undergraduate Studies will notify the accused, in writing or by email, of the recommendation.
- Probation: the period of probation will be determined by the Senate Committee on Undergraduate Studies and shall not exceed six consecutive semesters. The impact of being placed on probation is that the commission of any further academic offence during the period of probation may lead to suspension or expulsion.
- Suspension: will apply to a course, department, faculty, school, or the University. The period of suspension will be determined by the Senate Committee on Undergraduate Studies and shall not exceed six consecutive semesters.
- Expulsion: the recommendation for expulsion from the University will be made by the Senate Committee on Undergraduate Studies to the President of the University for a final decision. Prior to the President's decision, the Senate Committee on Undergraduate Studies will notify the accused, in writing or by email, of the recommendation for expulsion from the University. The accused will be allowed a period of two weeks following the date of release of such notification to lodge an appeal before the President's final decision concerning expulsion from the University. Any such appeal should be made in writing or by email to the Executive Committee of Senate, c/o the Office of the Registrar.
- Rescinding of degree: the recommendation for the rescinding of a degree previously awarded by the University will be made by the Senate Committee on Undergraduate Studies to Senate for a final decision. Prior to Senate's decision, the Senate Committee on Undergraduate Studies will notify the accused, in writing, of the recommendation for rescinding of the degree. The accused will be allowed a period of two weeks following the date of release of such notification to lodge an appeal before the Senate's final decision concerning the rescinding of the degree. Any such appeal should be made in writing to the Executive Committee of Senate, c/o the Office of the Registrar.

5.11.7 Transcript Entries Related to Penalties

1. Transcript entries shall relate to the penalty(ies) imposed as follows:

Penalty	Transcript Entry
Reprimand	No transcript entry
Reduction of Grade	Entry of final grade for course
Probation	"On probation at the University for academic misconduct until [Day, Month, Year]"
Suspension	"Suspended from the University/Faculty/School/Program/Course for academic misconduct until [Day, Month, Year]"
Expulsion	"Expelled from the University for academic misconduct effective [Day, Month, Year]"

2. The transcript entries for "probation" or "suspension" will be removed entirely upon the expiration of the penalty.

5.11.8 Disposition of Documentation

- The disposition of documents relating to allegations under these procedures shall be as follows:
 - In cases where the accused was not found guilty, none of the documentation shall be retained.
 - In the case of a resolution effected through **Academic Misconduct - General Procedure** or **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, a brief description of the offence and the penalty(ies) applied shall be forwarded by the head of the academic or administrative unit to and retained by the Office of the Registrar, separate from the student files.
 - In the case of a resolution effected through the **Procedures for Resolution of Alleged Academic Offences by the Senate Committee on Undergraduate Studies**, all documentation shall be forwarded to and retained in the Office of the Registrar, separate from the student files.

5.12 Graduation

5.12.1 Application for Graduation - Degrees, Diplomas and Certificates

Students in their graduating year must apply to the Registrar to be admitted to a degree or to be awarded a diploma or certificate. Application must be made on the prescribed form which is available from the Office of the Registrar at www.mun.ca/regoff/forms.php and on Student Web/Self-Service at www.mun.ca/regoff/. The deadlines for application are listed in the **University Diary** for the Spring and Fall convocations.

- No student can be awarded a degree, diploma or certificate unless and until an average of at least 2 points has been obtained on the total number of credit hours required for such degree, diploma or certificate. The degree of Doctor of Medicine is not included in this requirement since all courses comprising the degree are graded on a PAS or FAL basis.
- It is the duty of the Registrar to certify to the Senate, where appropriate, that students for degrees, diplomas and certificates have met all the regulations and requirements of the University.

5.12.2 Classification of General Degrees

- General degrees are awarded as "Classified", "Unclassified" or are not classified, in compliance with such regulations as may be required by the academic unit(s) offering the program(s). Refer to the degree regulations of the academic units for further information.
- General degrees are awarded in three classes based on the system for granting points set forth in **Grading - Letter Grades, Numeric Grades and Points per Credit Hour**, and determined as follows:
 - A student who obtains an average of 3.5 points or better on the total number of credit hours required for the degree shall be awarded the degree with First-Class Standing and provided that all other degree requirements are met.
 - A student who fails to obtain First-Class Standing but who obtains an average of 2.75 points or better on the total number of credit hours required for the degree shall be awarded the degree with Second-Class Standing provided that all other degree requirements are met.
 - All other students will be awarded the degree with Third-Class Standing, provided that they obtain an average of 2 points or better on the total number of credit hours required for the degree and provided that all other degree requirements are met.
- When a student obtains credit for more credit hours than are required for the degree, his or her total degree points shall include only those received for the credit hours required. In eliminating from the total points those received for credit hours beyond the requirements of the degree, the credit hour(s) for which the student receives the fewest points shall be disregarded, provided that no credit hour is disregarded that is a requisite for the degree.
- Where a student receives more than one classified bachelor's degree, the class of each degree will be determined independently by applying the scheme set forth in **Classification of General Degrees** and provided that in determining the points total for each degree only those credit hours may be counted which are applicable towards the degree concerned.
- A student who has been granted credit for courses completed at Memorial University of Newfoundland before the introduction of the point system, and/or one who has been given credit for courses completed at another university, will have the class of his or her degree determined by applying the scheme set forth in **Classification of General Degrees** in proportion to the total of required credit hours completed at Memorial University of Newfoundland since the introduction of the point system.
- An Unclassified degree will be awarded a student who has completed at Memorial University of Newfoundland, fewer than one-half of the credit hours required for the degree, or fewer than one-half of the required credit hours since the introduction of the point system. All students shall, however, obtain an average of 2 points or better on the total number of the credit hours required for the degree taken at this University since the introduction of the point system.
- The following degrees are not classified: Bachelor of Education (Intermediate/Secondary), Bachelor of Engineering, Bachelor of Maritime Studies, Bachelor of Music Education, Bachelor of Post-Secondary Education (as a second degree), Bachelor of Science (Pharmacy), Bachelor of Special Education, Bachelor of Technology, Doctor of Medicine, and all degrees offered by the School of Human Kinetics and Recreation.

5.12.3 Classification of Honours Degrees

- Honours degrees may be classified or not classified in compliance with such regulations as may be required by the academic unit offering the program. Refer to the appropriate degree regulations of the academic units for further information.
- A student who has been granted credit for courses completed at Memorial University of Newfoundland before the introduction of the point system, and/or one who has been given credit for courses completed at another university, will have the class of his or her honours degree determined in proportion to the total number of required credit hours completed at Memorial University of Newfoundland since the introduction of the point system.
- An honours degree awarded a student who has completed at Memorial University of Newfoundland, fewer than one half of the credit hours required for the degree, or fewer than one half of the required credit hours since the introduction of the point system, may be Unclassified or not classified.

5.12.4 Diplomas and Certificates

- Diplomas and certificates are not classified.

5.13 Waiver of Regulations

1. All undergraduate regulations notwithstanding, the University reserves the right, in special circumstances, to modify, alter or waive any regulation in its application to individual students where, in the judgment of the head of the appropriate academic unit or the appropriate committee, merit and equity so warrant. In keeping with the principle that decisions to waive regulations should be made as close as possible to the University officer or committee with responsibility for the regulations, requests for waivers, which normally must be made in writing, must be directed as follows:
 - Course Prerequisites or Co-requisites: the head of the academic unit of the course(s) in question.
 - Departmental Regulations: the appropriate committee on undergraduate studies upon the recommendation of the head of the appropriate department.
 - Faculty or School Regulations: the appropriate committee on undergraduate studies. Such waivers shall not reduce the total number of credit hours required for a minor, major, certificate, diploma, or degree program.
 - General Academic Regulations (Undergraduate): the Senate Committee on Undergraduate Studies on the recommendation of the appropriate committee on undergraduate studies. Such waivers shall not reduce the total number of credit hours required for a minor, major, certificate, diploma, or degree program.
 - Scholarships, Bursaries, Awards, Medals and Prizes Regulations: the Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation or request of the head of the appropriate academic unit.
2. Any student whose request for waiver of regulations has been denied has the right to appeal. With the exception of verbal requests for waiver of Course Prerequisites or Co-requisites, the student will be advised in writing of the reasons for the decision and of the avenue of appeal that may be taken. For information regarding the appeal procedure refer to **Appeal of Regulations - Appeal Procedures**.

5.14 Appeal of Regulations

5.14.1 General Information

1. Every student has the right to appeal decisions resulting from the application of University regulations.
2. Appeals will be considered in the case of health issues, bereavement and/or other acceptable cause, duly authenticated.
3. For assistance in the appeals process, students are advised to consult with the Office of the Registrar.
4. In preparing an appeal a student may consult advisors or facilitators. Such advisors or facilitators may include a representative from a Memorial University of Newfoundland student union, an international student advisor, a faculty advisor, a counsellor or a faculty member who is familiar with the appeals process and who is willing to undertake the role of student advisor or facilitator.
5. Appeals are made before specific committees that exist at the University to provide an objective review of cases. The appeals process is designed to assist students at critical points in their university career, and to provide an accessible and transparent process for students. Refer also to **Appeal Procedures** for information concerning where appeals should be directed.
6. The principle of fairness should be applied to all parties in appeals processes and decisions. Fairness includes, but is not limited to, such practices as all parties to the appeal receiving timely and adequate notice, all parties to the appeal having the opportunity to be heard, all parties to the appeal being made aware of the evidence considered by the committee and no individual sitting in judgment on an appeal at a higher level who has already been a party to the decision at a lower level. Any member of a committee hearing an appeal, who was previously involved in a decision making process at a lower level of process, will abstain from voting.
7. While the University makes provision for students to appeal regulations, the academic, financial or other consequences of the appeals process rests with the student.
8. When an appeal is denied, the student will be advised in writing of the reasons for the decision and of further steps that can be taken in the appeals process. A student whose appeal is denied by the Executive Committee of Senate may appeal to the Senate. Appeals to the Senate will be heard in the first instance by the Senate Committee on Academic Appeals and that committee will investigate the appeal and submit a report to the Senate with its findings and recommendations as expeditiously as possible. Students have the right to appear in person before the Senate Committee on Academic Appeals, and have the right to be accompanied by another person to assist them with their presentation. Normally, however, the presentation of the student's case rests with the student. Advance notice of the student's intention to appear and the identity of the accompanying individual, if any, must be provided to the Secretary of the Senate Committee on Academic Appeals. Should the student's appeal be denied by the Senate, the student will be advised that within the University no further appeal is possible.
9. Student appeals are heard anonymously. However, this provision does not apply to a student who elects to appear in person before the Senate Committee on Academic Appeals as outlined in Clause 8 above.

5.14.2 Appeal Procedures

1. Normally, the responsibility for making an appeal before the appropriate committee of the University rests with the student.
2. A student who is ineligible to officially register for courses but who wishes to attend classes, laboratories or other educational activities while an appeal is in progress can do so only with the written permission of the academic unit offering the courses. Such permission will not be unnecessarily withheld.
3. Any student whose request for waiver of regulations has been denied has the right to appeal. Normally, any such appeal must be made in writing, clearly stating the basis for the appeal, and must be directed as follows:
 - Course prerequisites or co-requisites: to the appropriate committee on undergraduate studies.
 - Departmental Regulations: to the appropriate committee on undergraduate studies where the department refuses to recommend the waiver, or to the Senate Committee on Undergraduate Studies, c/o The Office of the Registrar, where the appropriate committee on undergraduate studies denies the request for waiver.
 - Faculty and School Regulations: to the Senate Committee on Undergraduate Studies, c/o The Office of the Registrar.
 - General Academic Regulations (Undergraduate): to the Executive Committee of Senate, c/o The Office of the Registrar.
 - Scholarships, Bursaries, Awards, Medals and Prizes Regulations: to the Executive Committee of Senate, c/o The Office of the Registrar.
4. Appeals cannot be made on the basis of the grades awarded in individual courses, as the student will normally have had the opportunity to contest grades immediately after the release of examination results (see **Access to Final Examination Scripts and Rereading of Final Examination Scripts**). Dissatisfaction with grades is not sufficient grounds for an appeal. Notwithstanding the above, and recognizing that the awarding of grades is an academic matter within the purview of experts in a

discipline or subject area, students who wish to question the grades awarded in individual courses may consult with the following in the order given:

- the course instructor
- the head of the appropriate academic unit
- the Dean, Vice-President or Associate Vice-President of the appropriate Faculty, School, or Campus.

5.14.3 Information Required in Letters of Appeal

1. Appeals must be made in writing, clearly stating the basis for the appeal, and must be directed to the secretary of the appropriate University committee.
2. In the letter of appeal, the student must clearly and fully provide: name, current address, telephone number, Memorial University of Newfoundland e-mail address, student ID number, the decision being appealed and the remedy being sought. The grounds for the appeal, including health issues, bereavement and/or other acceptable cause, must be stated in the letter of appeal. Students must present independent evidence to corroborate statements made in the letter of appeal. Preferably, this evidence will come from a professional, such as a health professional, a counsellor, or a professor. However, letters from other knowledgeable parties may be acceptable.
3. In cases where an appeal is based on health issues, the student must produce a certificate from a health professional in the form of a note or letter. Such a note must be sufficiently specific to allow appropriate consideration of the student's case. The note must also clearly state that, in the opinion of the health professional, the problem was serious enough to have interfered with the student's work. Students should refer to **Information Required in Certificates from Health Professionals** for more complete information.
4. Students claiming bereavement as grounds must provide proof of death and evidence of a close personal relationship between themselves and the deceased.
5. **Confidentiality:** The committees to which appeals are made do require substantial information about the reasons for the appeals in order to make their decisions. However, the committees also recognize the students' rights to confidentiality. With this in mind, a student may discuss the reasons for his or her appeal with a University or Campus counsellor, who, with the student's permission and provided sufficient reasons exist, may then write a letter to the appropriate committee confirming that there were sufficient grounds for an appeal, without disclosing the special personal and confidential details of the case.

5.14.4 Information Required in Certificates from Health Professionals

1. Students who request permission to drop courses, to withdraw from University studies, to have examinations deferred or to obtain other waivers of University, departmental or course regulations based on health issues are required by the University to provide, in support of the request, a certificate from a health professional in the form of a note or letter. Such notes must be sufficiently specific to allow a proper consideration of students' cases. The University requires that all such notes must be on letterhead, must be signed by the health professional, must confirm the specific dates on which the student visited the health professional and should include details on the following:
 - the degree to which the health issue (or treatment, in the case of medication, for example) is likely to have affected the student's ability to study, attend classes, or sit examinations.
 - the length of time over which the student's abilities were likely hampered by the condition (e.g., recurring and severe back pain over a two-month period would likely have a more adverse effect on studies than a single episode of back pain requiring bed rest for a week)
 - the fitness of the student to resume studies (it is in the student's best interest not to return to studies prematurely).
2. **Confidentiality:** The University respects the confidentiality of all material contained in such notes. Students should request that their health professional retain a copy of such a note in case the note needs to be verified or reissued at a later date.

6 Non-Academic Regulations

6.1 Discipline

The President may use all means deemed necessary for maintaining discipline. Students found guilty of misbehaviour may be suspended or fined on the authority of the President, or expelled from the University by the President on the authority of the Board of Regents. (See the **Code of Student Conduct**)

6.1.1 Traffic and Parking Regulations On Campus

Students, employees, service personnel, and other persons having a direct association with the University, Health Sciences Centre, or the Fisheries and Marine Institute wishing to park a vehicle in a designated area on campus must obtain a parking permit. Traffic and parking regulations on campus are enforced by Campus Enforcement and Patrol assisted by the Royal Newfoundland Constabulary.

Application forms for vehicle parking permits, copies of the Traffic and Parking Rules and Regulations, and other information pertaining to traffic and parking on campus, are available at the Campus Enforcement and Patrol Office, Facilities Management Building, Room FM1018, or the Health Sciences Centre, Room H2720, or the Fisheries and Marine Institute, Room C2210. Additional Information regarding the Traffic and Parking Rules and Regulations is also available at www.mun.ca/facman/parking_roads/.

FACULTY OF ARTS

Archived Previous Calendar available at:
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

FACULTY OF ARTS

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- June 30, 2012

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Whitaker, R., B.A.(Hons.) *Memorial*, M.A. *York*, Ph.D. *California*

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Alberta

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Social Research*

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2005

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F.S.A.; Winner of the President's Award for Outstanding
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2008

Renouf, M.A.P., B.A., M.A. *Memorial*, Ph.D. *Cantab*; Winner of the
President's Award for Outstanding Research 1992-1993;
Canada Research Chair in North Atlantic Archaeology; Fellow
of the Royal Society of Canada

Associate Professors

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Spanish

Professor

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Professors

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 Ph.D. *Alberta*; Winner of the President's Award for Outstanding
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 2003; Coracle Fellow
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 the President's Award for Distinguished Teaching, 2009
 Sharpe, C.A., B.A.(Hons.) *Carleton*, M.A., Ph.D. *Toronto*; Winner
 of the President's Award for Distinguished Teaching, 2007

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 of the President's Award for Distinguished Teaching, 1997-1998
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Laval/Marne la Vallée; Cross appointment with Department of
 Earth Sciences
 Edinger, E.N., B.A. *California*, M.Sc., Ph.D. *McMaster*; Joint
 appointment with Department of Biology; Cross appointment
 with Department of Earth Sciences
 Lepawsky, J., B.A. *British Columbia*, M.A. *Queen's*, Ph.D.
Kentucky
 Simms, A., B.A. *Memorial*, M.Sc., Ph.D. *Calgary*; Cross
 appointment with Faculty of Medicine
 Simms, É.L., B.Sc. *Montréal*, M.Sc. *Sherbrooke*, Ph.D. *Montréal*

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 Program Coordinator Communication Studies

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 Ph.D. *Amsterdam*
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 den Otter, A.A., B.A. *Dordt*, M.A., Ph.D. *Alberta*
 Hiller, J.K., B.A. *Oxon*, M.A. *Memorial*, Ph.D. *Cantab*; University
 Research Professor

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Toronto, LL.B. *Dalhousie*
 Hiller, J.K., B.A. *Oxon*, M.A. *Memorial*, Ph.D. *Cantab*; University
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Professors

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 Ph.D. *Waterloo*; John Clinch Professor of Medical Humanities
 and History of Medicine; Cross appointment from Discipline of
 Psychiatry, Faculty of Medicine
 Fischer, L.R., B.A. *SUNY*, M.A. *Toronto*, M.A. *York*, F.S.A.,
 F.R.Hist.S., LL.D (Honorary) *Liverpool*
 Panjabi, R.K., B.A., LL.B., M.A. *London*, Ph.D. *Peradeniya*
 Pope, P.E., B.A. *Princeton*, M.Litt. *Oxford*, M.A., Ph.D. *Memorial*;
 Cross appointment with Department of Archaeology
 Sweeny, R.C.H., B.A. *Sir George Williams*, M.A. *Québec à
 Montréal*, Ph.D. *McGill*
 Youé, C.P., B.A. *Lancaster*, M.A., Ph.D. *Dalhousie*; CSU Teaching
 Award, 1998

Associate Professors

Bosák, E., B.A. *Brock*, B.Ed. *Memorial*, M.A. *Waterloo*, Ph.D.
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Duke
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 Burton, V.C., B.A., M.A. *Lancaster*, Dip.Ed. *Sussex*, Ph.D. *London*;
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 Connor, J.J., B.A. *Guelph*, M.A. *York*, M.Phil. *Waterloo*, Ph.D.
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 Psychiatry, Faculty of Medicine
 Curtis, S.M., B.A. *Brock*, B.Ed. *Lakehead*, M.A., Ph.D. *Carnegie
 Mellon*
 Sandlos, J., B.A.(Hons.) *McGill*, M.A., Ph.D. *York*
 Webb, J., B.A., M.A. *Memorial*, Ph.D. *New Brunswick*

Assistant Professors

Bishop-Stirling, T.L., B.A. *Memorial*, M.A. *Queen's*
 Cassis, M., B.A. *Alberta*, M.A., Ph.D. *Toronto*
 Humphries, M., B.A.(Hons.), M.A. *Wilfred Laurier*, Ph.D. *Western
 Ontario*; Cross appointment with Department of Archaeology
 Kennedy, N., B.A.(Hons.) *Toronto*, M.A. *William and Mary*, M.A.
Johns Hopkins, Ph.D. *Western Ontario*
 Korneski, K., B.A. *Northern Illinois*, Ph.D. *Memorial*
 Leddy, L., M.A. *Western Ontario*, Ph.D. *Wilfred Laurier*; Cross
 appointment with Department of Archaeology

Adjunct Professor

Baker, M., B.A.(Hons.), M.A. *Memorial*, Ph.D. *Western*

Department of Linguistics

www.mun.ca/linguistics/home/

Head

Mackenzie, M.E., B.A., M.A. *McGill*, Ph.D. *Toronto*; Professor

Professores Emeriti

Bubenik, V., P.Ph., Ph.Dr. *Brno*; F.R.S.C.; University Research
 Professor, Awarded 1996
 Clarke, S.A., B.A. *Memorial*, M. ès A., D. ès L. *Laval*; University
 Research Professor, Awarded 1999
 Hewson, J., B.A. *London*, M. ès A., D. de l'U. *Laval*; F.R.S.C.;
 University Research Professor, Awarded 1985; Henrietta
 Harvey Professor, 1997-1999

Associate Professors

Branigan, P., B.A., M.A. *Ottawa*, Ph.D. *M.I.T.*

Brittain, J., M.A.(Hons.) *Glasgow*, M.A., Ph.D. *Memorial*; Graduate Officer
 Dyck, C., B.A.(Hons.) *Saskatchewan*, M.A., Ph.D. *Toronto*
 Rose, Y., B.A., M.A. *Université Laval*, Ph.D. *McGill*
 Van Herk, G., B.A., B.Ed. *Concordia*, M.A. *Carleton*, Ph.D. *Ottawa*; Canada Research Chair

Assistant Professors

De Decker, P., B.A., M.A., York, Ph.D. *New York*
 MacKenzie, S., B.A. *York*, M.A., Ph.D. *Toronto*

Department of Philosophy

www.mun.ca/philosophy/

Head

vacant

Honorary Research Professors

Scott, J.A., B.A. *Memorial*, B.A., M.A. *Cantab*, Ph.D. *Edinburgh*
 Simpson, E., B.A. *Amherst*, Ph.D. *Duke*

Associate Professors

McGrath, S.J., B.A. *Ottawa*, M.A. *Toronto*, St. Michael's College, Ph.D. *Toronto*
 Okshevsky, W., B.A. *Concordia*, M.A. *York*, Ph.D. *OISE*; Cross appointment with Faculty of Education
 Rajiva, S., B.A., M.A. *Concordia*, Ph.D. *Toronto*
 Stafford, A.M., B.A., M.A. *Memorial*, Ph.D. *Edinburgh*
 Sullivan, A., B.A. *Memorial*, M.A., Ph.D. *Queen's*
 Trnka, P., B.A., M.A., Ph.D. *Toronto*

Associate Professor of Medical Ethics

Pullman, D., M.A., Ph.D. *Waterloo*, B.Ed. *Western*; Cross appointment with Faculty of Medicine

Assistant Professors

Gratton, P., B.A. *State Univ. New York at Stony Brook*, M.A., Ph.D. *DePaul*
 O'Neill, S., B.A., M.A. *Memorial*, Ph.D. *Dalhousie*

Adjunct Professors

Enders, M., M.A. *University of Freiburg*, Ph.D.(Philosophy), Ph.D.(Theology) *University of Munich*
 Flynn, J., B.A., M.A. *Queen's*, Ph.D. *University of Virginia*
 Singleton, R., B.A. *Memorial*, M.Div. *King's, W.Ont.*, D.Min. *Graduate Theological Foundation, Indiana*; Director of Pastoral Care and Ethics, Eastern Health

Department of Political Science

www.mun.ca/posc/welcome/

Head

Ashworth, L.M., B.A. *Keele*, M.A., Ph.D. *Dalhousie*; Professor

Honorary Research Professor

Wolinetz, S.B., B.A. *Cornell*, M.A., M.Phil., Ph.D. *Yale*

Professors

Bornstein, S.E., B.A. *Toronto*, M.A., Ph.D. *Harvard*; Director, Centre for Applied Health Research
 Close, D.W., B.S.F.S. *Georgetown*, M.A. *Wayne State*, Ph.D. *McGill*
 Croci, O., B.A. *Università di Venezia*, M.A. *Carleton*, Ph.D. *McGill*
 Dunn, C., B.A. *Manitoba*, M.A., Ph.D. *Toronto*
 Tomblin, S.G. B.A. *Calgary*, M.A. *Dalhousie*, Ph.D. *British Columbia*

Assistant Professors

Anderson, M.J., B.A., M.A. *British Columbia*, Ph.D. *Cambridge*
 Bittner, A.J., B.A.(Hons.) *Toronto*, M.A., Ph.D. *British Columbia*
 Bliedok, K., B.A. *Trinity Western*, M.A. *Simon Fraser*, Ph.D. *McGill*
 Kerby, M., B.A. *Concordia*, M.A. *Carleton*, Ph.D. *Trinity College, Dublin*
 Marland, A., B.A.(Hons.) *Carleton*, M.A. *Memorial*, Ph.D. *Lancaster*
 Panagos, D., B.A., M.A. *Waterloo*, Ph.D. *Queen's*
 Williams, R., B.A., M.A. *Victoria*, Ph.D. *Simon Fraser*

Adjunct Professors

O'Brien, F.P., B.A. *Memorial*, LL.B. *Dalhousie*, LL.M. *Cambridge*

Penney, R.G., B.A. *Memorial*, LL.B. *Toronto*

Department of Religious Studies

www.mun.ca/relstudies/about/

Head

Parker, K.I., B.A.(Hons.), M.A., Ph.D. *McMaster*; Professor

Professor Emeritus

Hodder, M.F., B.A. *McGill*, Dip. in Th. *United Theological College*, P.G.Dip. in Th. *Edinburgh*, S.T.M., Th.D. *Boston*

Honorary Research Professor

Bell, D.N., M.A. *Leeds*, M.A., D.Phil. *Oxon*, F.R.S.C.; University Research Professor, Awarded 1994

Professors

Hawkin, D.J., B.D. *London*, P.G.C.E. *Leeds*, M.A., Ph.D. *McMaster*
 Rollmann, H., B.A. *Pepperdine*, M.A. *Vanderbilt*, Ph.D. *McMaster*; Winner of the President's Award for Outstanding Research, 1986-1987

Associate Professors

DeRoche, M.P., B.A.(Hons.) *Acadia*, M.Th. *Laval*, M.A., Ph.D. *McMaster*
 Dold, P., B.A.(Hons.), M.A. *Calgary*, Ph.D. *McMaster*
 Porter, J., B.A.(Hons.) *Queen's*, M.A., Ph.D. *McMaster*
 Rainey, L.D., B.A., M.A., Ph.D. *Toronto*
 Shute, M.R., B.A. *Acadia*, M.T.S. *Atlantic School of Theology*, S.T.L., S.T.D. *Regis*, Th.D. *Toronto*

Assistant Professor

Selby, J., B.A.(Hons.) *Winnipeg*, M.A. *Queen's*, Ph.D. *McMaster*

Department of Sociology

www.mun.ca/soc/home/

Head

Stanbridge, K., B.A., M.A., Ph.D. *Western Ontario*; Associate Professor

Professores Emeriti

Meja, V., Dip. Soz. *Frankfurt*, Ph.D. *Brandeis*
 Porter, M., M.A. *Trinity College, Dublin*, Ph.D. *Bristol*; University Research Professor, Awarded 2003
 Sinclair, P.R., M.A. *Aberdeen*, Ph.D. *Edinburgh*; University Research Professor, Awarded 1992

Honorary Research Professors

House, J.D., B.A. *Memorial*, M.A. *Oxford*, Ph.D. *McGill*
 Overton, D.J.B., B.Sc. *Hull*, M.A., Ph.D. *Western Ontario*

Professors

Felt, L.F., B.A. *Oberlin College*, Ph.D. *Northwestern*
 Neis, B., B.A. *York*, M.A. *Memorial*, Ph.D. *Toronto*; University Research Professor, Awarded 2007
 Riggins, S.H., B.A., M.A. *Indiana*, Ph.D. *Toronto*

Associate Professors

Adler, J., B.A. *California*, Ph.D. *Brandeis*
 Crocker, S., B.A. *Memorial*, M.A., Ph.D. *York*
 Cullum, L., B.A. *Memorial*, M.A., Ph.D. *OISE*; Associate Professor, Women's Studies
 Hill, R., B.A. *Leicester*, M.A., Ph.D. *Brown*
 Kenney, S., B.A., L.L.B. *Dalhousie*, M.A., Ph.D. *McMaster*
 Micucci, A., B.A., M.A., Ph.D. *York*
 Oleinik, A., MA (DEA), Ph.D. *EHESS, Paris*, Ph.D. *Moscow State*

Assistant Professors

Craig, A., B.A. *York*, Ph.D. *New York University*
 Kaida, L., B.A., M.A. *University of Toyko*, Ph.D. *Toronto*
 Power, N., B.A., M.A. *Memorial*, Ph.D. *Essex, UK*
 Stoddart, M.C.J., B.A. *Athabasca*, M.A. *Victoria*, Ph.D. *British Columbia*
 Swiss, L., B.A. *Calgary*, M.A. *Carleton*, Ph.D. *McGill*
 Tenkorang, E., B.A. *Ghana*, M.A., Ph.D. *Western Ontario*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic

integrity.

2 Faculty Description

The Faculty of Arts offers a wide range of undergraduate and graduate programs in the social sciences and the humanities, offering excellence in both teaching and research. These degree programs examine culture, thought, prehistory and history, human interactions and the social and natural forces that constantly transform our society. An Arts education can provide incomparable advantages. Students gain the critical-thinking, analytical and communication skills needed to succeed and adapt in a changing world. This can lead to exciting, productive careers. One of Memorial University of Newfoundland's largest and most diverse units, the Faculty of Arts is a place where you can study what fascinates you, and pursue a program that suits your aspirations for learning and career. At the graduate level, students find unique programs and the freedom to develop their knowledge and expertise. Our faculty conduct research in a wide variety of areas, making discoveries that foster our understanding of the past, present and future. Our alumni work in a wide variety of fields not only in Newfoundland and Labrador, but also in Canada and the rest of the world. Their services are in demand because they have learned to define and analyse problems, to think creatively, and to communicate to others. Members of the faculty are also actively engaged in the community, whether helping to understand complex problems, working with groups to preserve culture, hosting public lectures and readings, or helping raise awareness of significant issues relevant to the well-being of people and communities.

Additional information regarding the Faculty of Arts is available at www.mun.ca/arts/about/.

3 Admission to the Bachelor of Arts General Degree Programs

These regulations shall also apply to multidisciplinary and interdepartmental programs. In such cases, the student should contact the Program Co-ordinator or supervisor.

1. Declaration of the Bachelor of Arts as a degree program may be made at the time of application to the University or by means of the **DECLARATION/CHANGE OF ACADEMIC PROGRAM** form following admission to the University. This form may be obtained at www.mun.ca/regoff/registration/Declare_Change_Acad_Prog_AS_0212.pdf or in-person at the Office of the Registrar.
2. A student who intends to complete a degree in the Faculty of Arts must also declare a Major and Minor (or second Major) chosen according to the **Major Program** and the **Minor Program** below. In most cases, this declaration may be made at the time of application to the University or, following admission to the University, by means of the **DECLARATION/CHANGE OF ACADEMIC PROGRAM** form, which must be submitted to the Office of the Registrar.
3. A student is encouraged to declare a Major and Minor (or second Major) no later than the semester in which they next attend the University following completion of 18 credit hours in courses applicable to their program(s).
4. A student is strongly advised to consult with departments or program coordinators or supervisors before making a declaration to the department or program of his/her intended Major or Minor.
5. In the case of programs with authorized admission requirements which go beyond the general admission requirements of the University, a student should make formal application to the department, coordinator or supervisor after completion of the program's admission requirements.

4 Program Regulations - General and Honours Degrees

In these regulations, all references to Heads of Departments and Program Supervisors are to be read as "Head of Department or delegate" and "Program Supervisor or delegate".

A student completing a degree program in the Faculty of Arts will normally follow the degree regulations in effect in the academic year in which he/she first successfully complete courses at Memorial University of Newfoundland. However, a student may elect to follow subsequent regulations introduced during his/her tenure in the program.

4.1 Bachelor of Arts General Degree Components

1. A student for the General Degree of Bachelor of Arts must complete a minimum of 120 credit hours in courses subject to the following regulations.
2. The Bachelor of Arts General Degree consists of the following components:
 - a. courses from a set of **Core Requirements**, some of which may also satisfy requirements of the Major and Minor programs
 - b. an approved concentration of courses known as the **Major Program**
 - c. an approved concentration of courses known as the **Minor Program**
 - d. **Electives**

4.1.1 Core Requirements

A student must complete the following Core Requirements. A student is strongly advised to complete the **Core Requirements** within the first 60 credit hours of their undergraduate program. Courses satisfying Core Requirements may also be used to satisfy requirements of Major and Minor programs, subject to the requirements outlined below:

1. To satisfy the minimum **Core Requirements**, a student shall take no more than 9 credit hours in courses from any one discipline.
2. A student may apply up to 9 credit hours of the **Core Requirements** towards the **Major Program** and up to 9 credit hours of the **Core Requirements** towards the **Minor Program**.
3. Specific Core Requirements may also be satisfied by the demonstration of equivalent competency in accordance with **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**, e.g., Advanced Standing, Challenge for Credit, etc.
4. A student who is concurrently completing the **Bachelor of Commerce (Co-operative)** degree should refer to the entry **Joint Degrees of Bachelor of Arts and Bachelor of Commerce (Co-operative)** immediately following these regulations.
5. A History course may be used to meet the **Humanities** or the **Social Sciences** Core Requirements, but not both.

4.1.1.1 English Requirement

A student must complete 6 credit hours in courses in English at the first-year level.

4.1.1.2 Second Language Requirement

A student must complete 6 credit hours in courses in a single language other than English, or demonstration of equivalent competency

in a second language. This requirement may be met by the completion of two courses in languages such as French, German, Greek, Hebrew, Innu-aimun, Inuktitut, Italian, Irish Gaelic, Japanese, Latin, Mandarin Chinese, Russian, Sanskrit, or Spanish, or other languages that may be offered from time to time. Prior to registration a list of courses which may be used to fulfill this requirement will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

4.1.1.3 Numeracy/Science Requirement

A student must complete 6 credit hours in courses chosen from the following: Biochemistry, Biology, Chemistry, Computer Science, Earth Sciences, Economics 2010, Economics 2020, Engineering, Environmental Science, Geography (laboratory courses only), Mathematics and Statistics, Physics, Psychology, Science 1000, 1150, 1151, 3000, 3001.

4.1.1.4 Humanities Requirement

A student must complete 12 credit hours in courses in at least two disciplines chosen from the following: Classics, Communications Studies, English, French, Gender Studies, German, History, Italian, Linguistics 2025, 2026, 2030, 2031, 2700, 2701, 2702, 2703, 2704, 2705, 2706, Medieval Studies, Philosophy, Religious Studies, Russian, Spanish.

These courses are exclusive of the minimum requirements for English and a second language as stated in **English Requirement** and **Second Language Requirement** above.

4.1.1.5 Social Sciences Requirement

A student must complete 12 credit hours in courses in at least two disciplines chosen from the following: Anthropology, Archaeology, Economics, Environmental Studies 1000, Environmental Studies 2000, Folklore, Geography (non-laboratory courses only), History, Law and Society, Linguistics, Police Studies, Political Science, Sociology.

4.1.1.6 Research/Writing Requirement

A student must complete a Research/Writing requirement. A student may complete 6 credit hours in courses in Social Sciences or Humanities which are designated research/writing courses to satisfy this Clause and may concurrently satisfy 6 credit hours from the **Humanities Requirement** and/or the **Social Sciences Requirement** above. Prior to registration a list of courses which may be used to fulfill this requirement will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

4.1.2 The Major Program

A student shall complete an approved concentration of courses to be known as the Major program, consisting of not fewer than 36 nor more than 45 credit hours taken in a subject listed in **Departmental Major Programs** or **Interdepartmental Major Programs** as described below.

4.1.2.1 Departmental Major Programs

1. Departmental Major Programs are available in the following subjects and are administered by departments: Anthropology, Archaeology, Classics, Computer Science, Economics, English Language and Literature, Folklore, French, Gender Studies, Geography, German, History, Linguistics, Mathematics and Statistics, Philosophy, Political Science, Psychology, Religious Studies, Russian, Sociology, Spanish.
2. A student who has completed courses in the area of the Major at another university is required to complete at least 12 credit hours in that subject at this University.
3. A student must follow the regulations for the Major programs as set forth in the appropriate section of the Calendar.
4. The Head of the Department or Departmental Undergraduate Academic Advisor of the Major program will advise the student on the selection of courses in the Major.
5. In Departments which offer programs leading to both a degree of Bachelor of Arts and a degree of Bachelor of Science, a student is free to choose the degree program he/she wishes to follow and may change from one to the other; however, he/she may not obtain both degrees in the same Major subject.

4.1.2.2 Interdepartmental Major Programs

1. Interdepartmental Major Programs are available in the following subjects which, because of their interdepartmental character, will each be administered jointly by the participating departments through a Program Coordinator: Canadian Studies, Communications Studies, Drama and Music, Law and Society, Medieval Studies, Police Studies. These programs shall require not fewer than 36 nor more than 54 credit hours for the Major.
2. A student completing an interdisciplinary Major program must choose a Minor (or a second Major) in a single discipline.
3. A student who has completed courses in the area of the Major at another university is required to complete at least 12 credit hours in that subject or in courses applicable to the program at this University.
4. A student must follow the regulations for the Major programs as set forth in the appropriate section of the Calendar.
5. The Head of the Department or Program Coordinator of the Major program will advise the student on the selection of courses in the Major.
6. In Departments which offer programs leading to both a degree of Bachelor of Arts and a degree of Bachelor of Science, a student is free to choose the degree program he/she wishes to follow and may change from one to the other; however, he/she may not obtain both degrees in the same Major subject.

4.1.3 The Minor Program

A student shall complete an approved concentration of courses to be known as the Minor program taken in a subject other than that of the Major and chosen from the **Departmental Minor** or **Interdisciplinary Minor** Programs as described below.

4.1.3.1 Departmental Minor Programs

A Departmental Minor Program shall consist of at least 24 credit hours taken in a subject other than that of the Major and chosen from the subjects listed above under **Departmental Major Programs**.

1. A student must follow the regulations for the Minor program as set forth in the appropriate section of the Calendar.
2. The Head of the Department or Departmental Undergraduate Academic Advisor of the Minor program will advise the student on the selection of courses in the Minor.

3. A student who has completed courses in the area of the Minor at another university is required to complete at least 6 credit hours in that subject at this University.
4. Up to 12 credit hours in courses offered by a single department as part of an interdisciplinary program may be used to satisfy the requirements for the Minor, provided they are in accordance with the regulations governing that Minor.
5. In addition to the Departmental Minor Program in Arts disciplines and those detailed under the **Interdisciplinary Minor Programs** below, Minors are available through the Faculty of Business Administration, the School of Music, and departments in the Faculty of Science. These programs are governed by regulations which are detailed in the Calendar entries for the Faculty of Business Administration, the School of Music, and departments in the Faculty of Science.
6. As an alternative to a Minor, a student may complete a second Major program. They must follow all General and Departmental or Program Regulations for this Major program.
7. Departmental regulations are not intended to prevent a student from completing more than the minimum required credit hours in the subjects of their Major and Minor.

4.1.3.2 Interdisciplinary Minor Programs

An Interdisciplinary Minor Program shall consist of at least 24 credit hours taken in subjects other than that of the Major and chosen from the **Interdisciplinary Minor** Programs listed below.

1. Interdisciplinary Minor programs are available in Aboriginal Studies, European Studies, Film Studies, Law and Society, Medieval Studies, Newfoundland and Labrador Studies, and Russian Studies. These programs are governed by regulations which are detailed under the Calendar entries for Aboriginal Studies, European Studies, Film Studies, Law and Society, Medieval Studies, Newfoundland and Labrador Studies, and Russian Studies.
2. A student completing an interdisciplinary Minor program must choose a Major in a single discipline.
3. A student must follow the regulations for the Minor program as set forth in the appropriate section of the Calendar.
4. The Program Supervisor of the Minor program will advise the student on the selection of courses in the Minor.
5. A student who has completed courses in the area of the Minor at another university is required to complete at least 6 credit hours in that subject or in courses applicable to the program at this University.
6. Up to 12 credit hours in courses offered by a single department as part of an Interdisciplinary Minor Program may be used to satisfy the requirements for the Minor, provided they are in accordance with the regulations governing that Minor.
7. In addition to the Minors in Arts disciplines and those detailed under the **Interdisciplinary Minor Programs**, Minors are available through the Faculty of Business Administration, the School of Music, and departments in the Faculty of Science. These programs are governed by regulations which are detailed in the Calendar entries for the Faculty of Business Administration, the School of Music, and departments in the Faculty of Science.
8. As an alternative to a Minor, a student may complete a second Major program. They must follow all General and Departmental or Program Regulations for this Major program.
9. Departmental regulations are not intended to prevent a student from completing more than the minimum required credit hours in the subjects of their Major and Minor.

4.1.4 Electives

1. In accordance with Regulations outlined under **Core Requirements, The Major Program** and **The Minor Program** above, a student must complete a minimum of 78 credit hours in courses offered by departments within the Faculty of Arts. Courses in Computer Science, Mathematics and Statistics, and Psychology may be applied to this requirement.
2. The remaining 42 credit hours (for a total of 120 credit hours required for the degree) will be electives; these may be chosen from offerings in Arts, Science, Business and Music (Musicologies and Music Theory and Composition only). A student may include as open electives up to 15 of these 42 credit hours in any subject area, with the exception of courses which are clearly practical or professional:
 - a. Outdoor Pursuits or Expeditions in Environmental Studies
 - b. Internships, Student Teaching or Practicum in Education
 - c. Activity and Coaching courses in Human Kinetics and Recreation
 - d. Applied Music or Ensemble Techniques in Music
 - e. Nursing Practice or Clinical Practicum in Nursing
 - f. Structural Practice Experience (SPE) in Pharmacy
 - g. Field Placements in Social Work
 - h. Master Classes in Fine Arts (Theatre)
 - i. Studio Courses in Fine Arts (Visual)

4.2 Graduation Requirements for the Bachelor of Arts General Degree

1. In the context of this regulation, any student attaining a grade of 55% or less in any course beyond the 1000-level in the Major or Minor is required to seek the advice of the appropriate department(s) at the beginning of the next semester to ensure that adequate progress is being maintained.
2. The minimum number of courses prescribed shall be understood to include any specific courses prescribed in the regulations of any department but excluding any 1000-level courses listed.
3. In order to graduate with the **General Degree of Bachelor of Arts**, a student shall obtain:
 - a. an average of 60% or higher on the minimum number of courses prescribed for the **Major Program**, excluding 1000-level courses, and
 - b. an average of 60% or higher on the minimum number of courses prescribed for the **Minor Program**, excluding 1000-level courses, and
 - c. an average of 2.0 points or higher per credit hour on the courses in Arts disciplines as indicated in the **Major Programs** above.

4.3 Bachelor of Arts (Honours) Degree Regulations

1. A program is offered leading to the Honours Degree of Bachelor of Arts. An Honours degree requires, over and above the

requirements of the **General Degree**, a concentration at an advanced level in an approved field, consisting of a subject or subjects of specialization and/or related subjects, and a high quality of work throughout the program. An Honours degree is of distinct advantage to students who plan advanced work or careers in their chosen fields and also to those who have a clear commitment to some special field of study. An Honours degree with first or second class standing is, in many cases, a prerequisite for admission to a graduate program.

2. A student completing a degree program in the Faculty of Arts will normally follow the degree regulations in effect in the academic year in which he/she first entered Memorial University of Newfoundland. This is determined by the year of the student number. However, a student may elect to follow subsequent regulations introduced during his/her tenure in the program.

4.3.1 Admission and Registration

1. Admission to Honours programs is competitive and limited, depending upon available resources. A student should consult the criteria established for the program in question. To be considered for admission to an Honours program, a student shall submit an "Application for Admission to the Honours Program" form to the Registrar. The application must be approved by the Head of the Department or Program Supervisor of the Subject of Specialization before the student can be admitted to the program.
2. A student who wishes to enter an Honours program is strongly advised to consult the Head of the Department or Program Supervisor at the earliest possible date, as it may not be possible to complete the requirements for the degree in the normal time if the decision to embark on the program is delayed beyond the end of the second year.
3. A student who has been awarded the General Degree of Bachelor of Arts may convert it to an Honours Degree of Bachelor of Arts by applying to the department of specialization and the Registrar and, upon approval of such application by the Department, completing the requirements for the Honours degree as set forth in the regulations.
4. Upon entering the program, the student shall be assigned a Faculty Advisor by the Head of the Department or Program Supervisor. The Faculty Advisor will be responsible for advising the student and the Head of the Department or Program Supervisor with respect to the student's program of studies.

4.3.2 Subjects of Specialization

Subjects which may be chosen as Subjects of Specialization for the Honours Degree of Bachelor of Arts are the following:

1. Those administered by Departments through the Head of the Department: Anthropology, Archaeology, Classics, Computer Science, Economics, English Language and Literature, Folklore, French, Geography, German, History, Linguistics, Mathematics, Philosophy, Political Science, Psychology, Religious Studies, Sociology.
2. Joint Honours Programs: A student may undertake a program of Joint Honours in two Subjects of Specialization (see **Course Requirements**, 3.c. and d.).

4.3.3 Course Requirements

A student for the Honours Degree of Bachelor of Arts shall complete a program of studies which shall consist of not fewer than 120 credit hours subject to the following regulations:

1. A student is required to complete the **Core Requirements** as detailed in the **Regulations for the General Degree of Bachelor of Arts**. These include:
 - a. English Requirement
 - b. Second Language Requirement
 - c. Numeracy/Science Requirement
 - d. Humanities Requirement
 - e. Social Science Requirement
 - f. Research/Writing Requirement
2. A student must also:
 - a. Pass a general comprehensive examination in a Subject of Specialization. This examination may be written, or oral, or a combination of both. The comprehensive examination shall count as 3 credit hours in the Subject of Specialization; and/or
 - b. Submit an Honours essay on an approved topic which, at the discretion of the Head of the Department or the Program Supervisor, may be followed by an oral examination thereon. Normally, the Honours essay will count as 3 credit hours in the Subject of Specialization, or as 6 credit hours in the case of linked (A/B) honours essays (please consult departmental regulations).
The semester in which the student sits for the comprehensive examination, and/or the semester in which the Honours essay is to be submitted, may be decided by the student after consultation with the Head of the Department or Program Supervisor.
A copy of the Honours essay must be submitted to the University Library upon completion. All Honours essays in the University Library shall be available for unrestricted consultation by students and faculty except under very exceptional circumstances which must be approved by the Committee on Undergraduate Studies. Copyright remains with the author. A signed release form must accompany an essay or dissertation when it is submitted to the University Library.
3. Further courses shall be chosen either
 - a. In consultation with the Faculty Advisor and with the approval of the Head of the Department or Program Supervisor of the **Subject of Specialization**, but in such a way that the student's program shall include not fewer than 60 credit hours in courses applicable to the Subject of Specialization, including the comprehensive examination and/or the Honours essay, at least 36 of which must be at the 3000 level or above, and not fewer than 24 credit hours in a Minor subject or program according to the Departmental or Program Regulations covering that Minor, and the total number of credit hours which may be applied to the degree is not fewer than 120; or
 - b. In consultation with the Faculty Advisor and with the approval of the Head of the Department or Program Supervisor of the **Subject of Specialization**, but in such a way that the student's program shall include not fewer than 60 credit hours in courses applicable to the Subject of Specialization, including the comprehensive examination and/or the Honours essay, at least 36 of which must be at the 3000 level or above, and not fewer than 36 credit hours in a Major subject or program according to the Departmental or Program Regulations governing that Major, and the total number of credit hours which may be applied to the degree is not fewer than 120.
 - c. In consultation with the Faculty Advisors and with the approval of the Heads of the Departments or Program Supervisors of two Subjects of Specialization (Joint Honours), but in such a way that the student's program shall include not fewer than 42 and not more than 51 credit hours in courses approved for each of the Subjects of Specialization, including the comprehensive

examination and/or the Honours essay, of which at least 27 shall be at the 3000 level or above in each of the Subjects of Specialization, and the total number of credit hours which may be applied to the degree is not fewer than 120.

- d. In the case of Joint Honours, the student may choose the **Subject of Specialization** for the Honours essay and/or comprehensive examination.
- e. Other courses to make up the total of 120 credit hours may be chosen from any subjects listed under 2.a. with Canadian, Gender, Medieval, and Russian Studies added to the list of subjects and from courses listed under and in accordance with **Regulations for the General Degree of Bachelor of Arts, Electives**.

4.3.4 Departmental Regulations

A student for Honours degrees shall also comply with such additional requirements of the appropriate Department(s) as are approved by the Senate and printed in the Calendar.

4.3.5 Academic Standing

In order to graduate with an Honours degree, a student shall obtain:

1. a grade of 70% or better, or an average of 75% or higher in the minimum number of courses (including the required courses in the Honours subject(s) prescribed by the Department or, in the case of Joint Honours, Departments concerned), excluding 1000-level courses. A grade of 70% or better must be obtained in the Honours essay and/or comprehensive examinations; and
2. an average of at least 2.75 points on the total number of credit hours in the courses required for the degree. (See **General Academic Regulations (Undergraduate), Classification of General Degrees**.)

Note: A student who wishes to fulfil the requirements of 4.3.5., 1. above using repeated or substituted courses must obtain approval of the Head of the Department and the Committee on Undergraduate Studies. The Honours essay and/or comprehensive examinations may not be repeated or substituted.

4.3.6 Classification of Degrees

1. If a student's general average is 3.25 points or better per credit hour in required courses and his/her average is 3.5 points or better per credit hour in the courses in the Honours subject (excluding 1000-level courses), the student shall be awarded an Honours degree with First Class standing.
2. If a student fulfils the conditions of **Academic Standing** above but not of Regulation 1. under **Classification of Degrees**, the student shall be awarded an Honours degree with Second Class standing.
3. No classification will be given to the degree awarded a student who has completed (i) fewer than one half of the courses required for the degree at this University, or (ii) who has completed fewer than one half of the courses required for the degree at this University since 1959. All students for such degrees shall, however, fulfil the condition of **Academic Standing** above on the courses taken at this University since September 1959 in order to qualify for the degree.
4. A declared student for an Honours degree who fails to attain the academic standing specified in **Academic Standing** above but fulfils the academic requirements for a General degree shall be awarded a General degree, the classification of which shall be determined in accordance with **General Academic Regulations (Undergraduate), Classification of General Degrees**.

4.4 Regulations Governing Co-operative Education Program

See **Department of Economics**

4.5 Joint Degrees of Bachelor of Arts and Bachelor of Commerce (Co-operative)

Any student who is admitted into the Bachelor of Commerce (Co-operative) program may simultaneously complete the requirements for a Bachelor of Arts program. Under those circumstances, regulations for the Bachelor of Commerce (Co-operative) program will be relaxed as follows. Notwithstanding clauses 4. c and 4.d of **The Curriculum** under the **Regulations for the General Degree of Bachelor of Commerce (Co-operative)**, students in the Bachelor of Commerce (Co-operative) program who are concurrently completing the Bachelor of Arts degree will be permitted to make the following adjustments to those clauses:

1. clause 4.c. - no fewer than 15 credit hours, but no more than 36 credit hours, in Business electives which must be chosen from **Table 4 Business Electives**.
2. clause 4.d. - no fewer than 12 credit hours, but no more than 33 credit hours, in elective courses chosen from the Faculty of Arts.

These adjustments to the normal curriculum will only be permitted for students who are graduating with the Bachelor of Commerce (Co-operative) degree and the Bachelor of Arts degree at the same convocation. In order to meet all of the requirements of both degree Programs at the same time, students who are completing the joint degrees are strongly advised to follow the Bachelor of Commerce (Co-operative) Curriculum (Completed Jointly with the Bachelor of Arts) Table below.

Current Faculty of Arts Calendar available at:
<https://www.utoronto.ca/faculty-of-arts/calendar>

Bachelor of Commerce (Co-operative) Curriculum (Completed Jointly with the Bachelor of Arts)

Terms A/B	6 credit hours in English courses which must include English 1110 or 1021 Mathematics 1000 Economics 2010 and 2020 Business 1000 12 additional credit hours in non-Business electives [see Note 1. below]
Fall Academic Term 1	Business 1101 Business 1210 Statistics 2500 6 credit hours chosen from: Business 1600, Business 2010, Business 2400, Business 2710, and 3 credit hours in Major, Core or elective courses (see Note 1. below)
Winter Academic Term 2	Business 2101 Business 2210 Remaining 9 credit hours chosen from: Business 1600, Business 2010, Business 2400, Business 2710, and 3 credit hours in Major, Core or elective courses [see Note 1. below]
Spring	[see Note 2. below]
Fall Academic Term 3	Business 3310 Business 3401 Business 3700 At least 6 credit hours in Major, Core or elective courses [see Note 3 below]
Winter	Business 399W [see Note 2. below]
Spring Academic Term 4	Business 4000 Business 4050 Business 4320 Business 4330 Business 4500
Fall	Business 499W [see Note 2. below]
Winter Academic Term 5	Business 5301 At least 12 credit hours in Major, Core or elective courses [see Note 3. below]
Spring	Business 599W [see Note 2 below]
Fall Academic Term 6	Business 7000 At least 12 credit hours in Major, Core or elective courses [see Note 3. below]
Winter Academic Term 7	At least 15 credit hours in Major, Core or elective courses [see Note 3. below]

- Notes: 1. The Bachelor of Arts requires completion of a **Major Program**, a **Minor Program**, a set of **Core Requirements**, and **Elective** courses, totalling at least 78 credit hours in courses offered by departments within the Faculty of Arts (or Computer Science, Mathematics and Statistics, and Psychology). When the Bachelor of Arts is completed jointly with the Bachelor of Commerce (Co-operative):
- Minor program requirements are satisfied by Business courses specified in the **Bachelor of Commerce (Co-operative) Curriculum (Completed Jointly With The Degree of Bachelor of Arts)** Table above.
 - Core requirements for English and Numeracy/Science are satisfied by courses completed in Terms A/B or during Terms 1 or 2 of the Bachelor of Commerce (Co-operative) degree.
 - It is recommended that the Core Requirement for 6 credit hours in courses in a second language be completed in Terms A/B of the Bachelor of Commerce (Co-operative) degree program.
 - Core requirements for 6 credit hours in research/writing courses may be satisfied by including two such courses within the 78 credit hours in courses offered by departments within the Faculty of Arts. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.
 - Major requirements for the Bachelor of Arts may be satisfied in 36 to 45 credit hours, depending on the department or program chosen. Students are strongly recommended to seek advice from the department or program of their Major to ensure that their proposed degree program is possible within the constraints of course scheduling and prerequisites.
2. Students are advised that, in order to complete the joint degrees within the minimum 150 credit hours, they must complete at least five of the courses required for the Bachelor of Arts as opportunities arise and as courses are offered. These courses may be completed during the Spring semesters between Terms A/B and Term 1, between Terms 2 and 3, or during any of the three Work Terms (for example, in the evening or by distance), or as sixth courses during any of the academic terms (following submission of a course load waiver).
3. To meet the requirements for the Bachelor of Commerce (Co-operative), not fewer than 15 and not more than 36 credit hours in Business electives must be chosen from **Table 4 Business Electives**. Students intending to complete the joint degrees in the minimum number of 150 credit hours should ensure that at least 78 of these credit hours are completed in courses offered by departments within the Faculty of Arts (or Psychology, Mathematics and Statistics, and Computer Science). Careful planning, particularly in the selection of elective courses as well as in the sequence of Major program courses, is therefore recommended to ensure timely completion of the joint degrees.

5 Limited Enrolment Courses

Certain course offerings in the Faculty of Arts will be identified as being Limited Enrolment Courses and will be clearly identified as such in the University Timetable. Students who have registered for a Limited Enrolment Course must confirm their registration either (1) by attending at least one of the first three hours of lectures in the course (and the first meeting of any laboratory section of the course, if appropriate); or (2) by notifying the department in writing within the first five university working days of the semester. Students who do not confirm their registration may be dropped from the course on the recommendation of the Head of Department.

6 Diploma Programs Offered in the Faculty of Arts

6.1 Objectives

Diploma programs are of distinct advantage to students who wish to complement their studies in one or more fields of specialization with a program that will help them relate their knowledge to growing sectors of the economy and to areas of increasing social concern. These programs assume and build upon the theoretical knowledge acquired in the completion of an undergraduate degree and will assist in easing the transition of graduates to the workplace.

6.2 Components

Courses satisfying the Honours, Major, Minor and elective components of an undergraduate degree may also be used to satisfy the requirements of a diploma program.

Diploma programs consist of between 24 and 36 credit hours in courses as specified in individual programs, including a field component of 6 credit hours in an approved instructional field placement and/or instructional field courses.

The purpose of the field component of the program is to provide students with an opportunity for practical and instructional field-oriented experiences as a means of broadening and reinforcing the other courses taken in the diploma program. The instructional field component may take a number of forms, depending on the nature of individual programs. Without limiting the generality of the definition, the instructional field component typically includes observation of and instruction in practical techniques and methods and their application, as well as the maintenance and submission of documentation and reports appropriate to the area of study.

Instructional field placements and instructional field courses may not normally be repeated.

6.3 Admission to Diploma Programs

Students seeking information about specific diploma programs should contact the diploma program coordinator, the Office of the Dean of Arts, or the Office of the Registrar.

1. Admission to all diploma programs is competitive and limited, depending upon available resources. For additional requirements stipulated by individual diploma programs, see the appropriate Calendar entry below.
2. All applications for admission or readmission must be submitted to the Office of the Registrar. A complete application package includes an application to the University (for those who have not attended Memorial University of Newfoundland in the two preceding semesters), an application to the Diploma Program and any other required documentation.
3. Applicants for admission to diploma programs must apply by completing the appropriate form available from the Office of the Registrar.

6.4 Graduation Requirements

1. To be eligible for the award of a diploma, a student must have obtained an overall average of 60% or higher in the courses prescribed for that program.
2. A minimum of 9 credit hours in courses prescribed for the diploma program must be completed at this University.

6.5 Diploma in Applied Ethics

Program Co-ordinator: Dr. P. Trnka, Department of Philosophy.

The Diploma helps to prepare students for the ethical challenges of various professions and for work as ethical consultants and analysts in government and private institutions (e.g., hospitals, businesses, environmental agencies).

6.5.1 Admission Requirements

Admission to the Diploma program is limited and competitive. Applicants with a B.A. or B.Sc. in hand and senior undergraduates will be preferred. Experience working in the health care or environmental sectors is an asset. Students interested in applying to the program should contact the Program Co-ordinator. Formal application is made through the Office of the Registrar.

6.5.2 Program of Study

The Diploma consists of 24 credit hours, including an Instructional Field Placement. A concentration in either bioethics, mental health ethics, or environmental ethics is required: courses toward a concentration must be chosen with the approval of the Program Co-ordinator.

6.5.3 Course List

Philosophy 2230

One of Philosophy 2551 or 2552 or 2561

One advanced (3000 or 4000 level) course in ethics or philosophy of law, approved by the Co-ordinator

Philosophy 4900 or 4300-4310

Philosophy 5000

Two additional, elective courses, approved by the Co-ordinator.

6.6 Diploma in Creative Writing

Program Co-ordinator: Dr. L. Mathews, Department of English Language and Literature

6.6.1 Program Description

The Diploma aims to develop students' skills in writing in a variety of genres conventionally described as "creative," such as fiction, poetry, drama, and creative non-fiction. It will also offer students the opportunity to take, as options, courses that provide a background in contemporary literature in these genres.

The eight course, 24 credit hour program will comprise at least five and as many as eight creative writing courses in at least three and as many as four genres. The overall aim of the program is to help students produce work that merits publication. To this end, the focus of the creative writing courses will be on the composition, critiquing, and editing of the students' own work, and, in both the creative writing and contemporary literature courses, on analysing examples of excellent contemporary writing.

6.6.2 Admission Requirements

As has traditionally been the case, students will compete for admission to individual Creative Writing courses via the portfolio system. The Diploma will be earned by accretion.

6.6.3 Program of Study

Students are required to complete a minimum of 24 credit hours of course work, including at least 15 credit hours from the following:

English 3900, English 3901, English 3902, English 3903, English 4910, English 4911, English 4912, and English 4913

The remaining courses must be taken from:

1. additional courses from the above list
2. one or more special topics courses in Creative Writing (English 4920-4930)
3. one or more of English 3100, 3155, 3156, 3158, 3160, 3161, 3171, 3172, 3173, 4080, 4270, 4302, 4822
4. one or more courses from the Diploma in Professional Writing

6.7 Diploma in English as a Second Language

Program Co-ordinator: J. Benger, Department of English Language and Literature

This program prepares students for positions in private language schools and community colleges in Canada and overseas, working primarily with adults whose first language is not English. The Diploma combines expertise from the Department of English Language and Literature, the Department of Linguistics, and the Faculty of Education. The required courses provide a solid understanding of the characteristics and needs of adult ESL learners.

6.7.1 Admission Requirements

Admission to the Diploma Program in English as a Second Language (ESL) is limited and competitive. A high level of English language proficiency is required. Students are advised to notify the program coordinator of their intention to apply for admission into this program. Formal application is made through the Office of the Registrar, normally in the second semester of the student's second year of study.

6.7.2 Program of Study

Students are required to complete a minimum of 27 credit hours of course work, including: 15 credit hours in language courses in English and/or Linguistics, 6 credit hours of Education studies, 6 credit hours of instructional field placement (Practicum). This practicum will acquaint students through observation and practice with Teaching English as a Second Language to adult learners.

6.7.3 Course List

Education 2222
 Education 4950
 English 2390
 English 3650
 English 5100
 English/Linguistics 3105
 Linguistics 2104
 Linguistics 3155

6.8 Diploma in Geographic Information Sciences

Program Co-ordinator: Dr. É. Simms, Department of Geography

The Diploma in Geographic Information Sciences is of interest to students from a broad range of backgrounds. It is a valuable complement to social and natural sciences programs such as anthropology, biology, computer sciences, earth sciences, history, economics, engineering, health and medicine, physical oceanography, environmental sciences and environmental studies. The fields of remote sensing, geographic information systems (GIS) and cartography provide the most effective methods of gathering, managing, analysing and representing geographic information. Remote sensing images provide a resourceful information to observe and study the cultural and physical landscapes. Examples of remote sensing applications include the monitoring of spatial changes, environmental quality evaluation, natural resources exploration, assessment and monitoring, and archaeological site assessment. Geographic information systems enable the compilation, organization and processing of spatial (maps) and non-spatial (text, statistics, graphs) data. Socio-economic, political and environmental management decision-making is supported by the results of GIS analyses and modelling. Cartography involves the compilation, organization and visual representation of spatial information. A variety of geographical information can effectively be communicated through cartography.

6.8.1 Admission Requirements

Admission to the Diploma in Geographical Information Sciences is limited and competitive. Students are advised to notify the program coordinator of their intention to apply for admission into this program. Students who wish to enter this program must apply through the Office of the Registrar by April 1 for Fall semester registration and by October 15 for Winter semester registration.

To be considered for admission to the Diploma in Geographic Information Sciences, students will normally have completed 24 credit hours, including the courses listed in 1., 2., and 3., with an overall average of at least 65%.

1. Geography 1050 or one 1000-level course in applicant's Bachelor's Major program.
2. Mathematics 1000 or equivalent.
3. Two 1000- or 2000-level core courses in student's Bachelor's Major program, excluding the courses listed in 1. and 2. above.

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance.

6.8.2 Continuation Requirements

To be considered for the field placement courses Geography 4290 and 4919, the students for the Diploma in Geographic Information Sciences will normally have completed at least seven courses required for the program, with an overall average of 65%.

6.8.3 Program of Study

Students are required to complete a minimum of 30 credit hours of courses as listed below.

Note: *The course Mathematics 2050 is a prerequisite to some of the fourth year courses required for the diploma.*

6.8.4 Course List

Computer Science 1710
 Geography 2195
 Geography 3202
 Geography 3250
 Geography 3260
 Geography 4202
 Geography 4250
 Geography 4261
 Geography 4290
 Geography 4919

6.9 Diploma in Heritage Resources

Acting Program Co-ordinator: Associate Dean of Arts (Undergraduate)

Building on the student's academic grounding in anthropology/archaeology, folklore, history, geography, and other relevant disciplines, the program offers training in object documentation, identification, conservation, and display. Required courses give students both an awareness of the broad range of heritage resources - including objects, sites, landscapes, documents - and specific skills to deal with public perceptions of objects and artifacts. The program also includes a course in tourism management. Elective courses enable students to pursue their particular disciplinary interests.

The Diploma in Heritage Resources helps prepare students to work in the expanding heritage sector in Newfoundland or elsewhere. Students with this diploma will be better able to compete for positions in museums and historic sites and for employment with heritage consultants, and to participate in contracts involving heritage policy and planning, all part of the increasing regional and global importance of cultural tourism. The diploma in Heritage Resources will also be an advantage to students wishing to study heritage or cultural resources management at the graduate level.

This diploma program draws on the expertise of faculty members in various departments and faculties.

6.9.1 Admission Requirements

Admission to the Diploma in Heritage Resources program is limited and competitive. Students are advised to notify the Program Co-ordinator of their intention to apply for admission into this diploma program. Formal application is made through the Office of the Registrar, normally in the second semester of the student's second year of study.

6.9.2 Program of Study

Students are required to complete a minimum of 30 credit hours of course work, including 6 credit hours in instructional field courses, from the lists of required and elective courses below, with:

- at least 15 credit hours from the **Required Courses** listed below, which must include 3 credit hours in a field course in Cultural Resources Management and at least 12 credit hours chosen from Material Culture, Archaeological Conservation, Collections Management, Introduction to Museums & Historic Sites and Tourism Management.
- at least 12 credit hours from the **Elective Courses** listed below, chosen to include at least 3 credit hours in a course designated as an instructional field course. Instructional field-oriented courses will deal with a wide array of artifact-related research in historic sites/museums. These instructional field courses will be advertised by the Program Co-ordinator.

6.9.3 Course List

6.9.3.1 Required Courses

Archaeology 3587
 Archaeology/Folklore 3591
 Archaeology 3710/Folklore 3700
 Archaeology 3850/Folklore
 Archaeology/Folklore/Geography 4015*
 Business 6020

6.9.3.2 Elective Courses

Archaeology 2582
 Archaeology 3290
 Archaeology 3584
 Archaeology 3585-3586*
 Archaeology/Folklore 3800
 Archaeology/Folklore/History 3860
 Archaeology/Folklore 3900*
 Archaeology 3589/Folklore/Medieval Studies 3001/History 3020
 Folklore 3601* (Harlow Campus)
 Folklore 3608*/Geography 3900* (Harlow Campus)
 Folklore 3613* (Harlow Campus)
 Folklore 4601*
 Folklore/History 3870
 Folklore/History 4480
 Geography 2001
 Geography 3610
 Geography 3990* (Harlow Campus)
 History 3110
 History/Folklore 4100

(* indicates an instructional field course)

6.10 Diploma in Performance and Communications Media

Program Co-ordinator: J. Skidmore, Department of English Language and Literature

Memorial University of Newfoundland offers a specialized Diploma Program in Performance and Communications Media. This Diploma draws on the expertise of the Drama Specialization, Department of English, Distance Education, Learning and Teaching Support (DELTS), and CBC Television. Students receive an introduction to multi-media in the area of dramatic arts and video techniques. Students will be introduced to the wide applications of stage and video craft through a program of project-oriented courses. Required courses give students specific skills in stage and video craft and enable students to specialize in their own particular practical area of interest.

The Diploma in Performance and Communications Media prepares students to work in the cultural industries in Newfoundland (or other parts of North America). Students with this unique training are better able to work across existing media.

6.10.1 Admissions

Academic Requirements: Applicants for the Diploma program must satisfy the general admission requirements of the University.

Interviews: In addition to meeting the general requirements of the University for admission to diploma programs, applicants for the Diploma in Performance and Communications Media must undergo an audition/interview to the satisfaction of the Program Co-ordinator. Enrolment in the Diploma in Performance and Communications Media is limited and competitive. Students are advised to notify the Program Co-ordinator in their first year if they intend to apply for this Diploma. Formal application normally takes place in the second semester of second year.

6.10.2 Program of Study

1. Students must complete a minimum 18 credit hours of course work in the following required courses with an overall average in these courses of at least 65%: English 3350, English 3351, English 3816, English 4400, English 4401, and English 4402.
2. Students must also complete 6 credit hours in English 5000 - Instructional Field Placement. Admission to this instructional field placement course is by application to the Program Co-ordinator, normally at least three months before the beginning of the placement, and is limited to students who at the time of admission have completed the six courses listed above with an overall average of at least 65% and who already hold a first degree or are in their final year of a degree program as confirmed by the Office of the Registrar.

6.11 Diploma in Police Studies

Program Co-ordinator: A. Morris, Department of Sociology

The Diploma Program in Police Studies is offered to students who are recruit cadets of the Royal Newfoundland Constabulary. The program provides recruit cadets with academic and experiential learning components of a degree program relevant to their future work as police officers.

Police Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Police Studies**.

6.11.1 Admission Requirements

Admission to the Diploma program is limited and competitive. Applicants to the Diploma program must be recruit cadets of the Royal Newfoundland Constabulary who satisfy the **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)**, and at the time of admission must have completed either a university degree in any discipline from a recognized university, or have completed at a post-secondary institution, the equivalent of 15 credit hours, which should normally include 6 credit hours in English, 6 credit hours in Psychology, and 3 credit hours in Sociology.

6.11.2 Continuation Requirements

Students dismissed as recruit cadets by the Royal Newfoundland Constabulary will be required to withdraw from the Diploma in Police Studies.

6.11.3 Program of Study

Following admission to the Diploma program and until completion of all Diploma program requirements, students must normally carry a course load of 15 credit hours in each of the Fall and Winter semesters. Students must complete a total of 36 credit hours in the following required courses:

6.11.3.1 Required Courses

Police Studies 2000
 Police Studies 3500
 Police Studies 5000
 Political Science 3620 or the former Political Science 3521
 Political Science 3820 or the former Political Science 3720
 Psychology 2150
 Psychology 3640
 Sociology 3290
 Sociology 3306
 Sociology 3395
 Sociology 4212

6.11.3.2 Alternate Courses

Anthropology 2260
 Anthropology 2414
 Anthropology 3240
 Archaeology 2492
 English 2160
 Gender Studies 1000
 Gender Studies 2005
 Geography 2495

History 3560
History 3813
Law and Society 2000
the former Philosophy 2802
the former Philosophy 2810
Police Studies 3000
Police Studies 3100
Police Studies 4000
Police Studies 4001
Political Science 3681 or the former Political Science 3791
Psychology 2100 or Psychology 2120
Psychology 2800
Religious Studies 1000
Religious Studies 2610
Religious Studies 3650
Sociology 2270
Sociology 3130
Sociology 4095
Sociology 4210

6.12 Diploma in Professional Writing

Program Co-ordinator: Dr. J. Lokash, Department of English Language and Literature

6.12.1 Program Description

The Diploma in Professional Writing (DPW) aims to develop students' skills in a variety of genres such as the report, feature article, satirical commentary, speech, song lyric and review. Students complete 24 credit hours in which they are introduced to professional writing as a process: they draft, revise and edit their work in preparation for publication in various media.

The 6 credit hour instructional field placement is completed in a professional situation, e.g., a division of the University, an arts organization, government or the media. Students also attend seminars on professional writing and submit journals about their work experience.

6.12.2 Admission Requirements

Applicants to the Diploma in Professional Writing should include a letter of application, a transcript (if the applicant is a student or a graduate of a university program), and a portfolio of work. Admission to the diploma is limited. The following are eligible to apply:

1. students taking a Bachelor of Arts or another degree program;
2. graduates of a Bachelor of Arts or another degree program; and
3. individuals without a degree who wish to develop skills in writing and editing. Such applicants must meet the prerequisite requirements for the Diploma in Professional Writing courses.

6.12.3 Program of Study

Students are required to complete a minimum of 24 credit hours of course work, including:

1. English 2010
2. English 3910, English 3920, and English 4914
3. One of English 3817, English 3911, English 3912, English 3913 and English 3914.
4. One of English 3900, 3901, 3902, 3903, 4910, 4911, 4912, 4913.
5. English 5200 (6 credit hours).

Further information regarding the Diploma in Professional Writing may be obtained at www.mun.ca/english/diplomas/professional.php.

7 Waiver of Regulations for Undergraduate Students

Regulations involving course prerequisites or co-requisites, departmental regulations, and faculty regulations may be waived where circumstances so warrant. The routing of requests for such waivers and the procedure for appealing unfavourable decisions are outlined in the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.

8 Harlow Campus Semester

This is an integrated interdisciplinary Arts program offered each Fall semester at the Harlow Campus, England. The content of the program changes each Fall, depending upon the departments involved. Credits for the program equal 15 credit hours, with the allocation of credits to departments changing each Fall. Students wishing to enrol in a Harlow semester must have completed at least 48 credit hours at the university level, and satisfy any prerequisites which may be required. Enrolment is competitive. The relevant admission criteria, as well as other information, may be obtained from the Office of the Dean of Arts.

9 Programs and Regulations

9.1 Aboriginal Studies

www.mun.ca/interdisciplinary/aboriginal/index.php

Program Co-ordinator: Dr. D. Wharram, Department of Linguistics

The Minor in Aboriginal Studies is an interdisciplinary program. It is an alternative to a Minor offered by a single department and satisfies the degree requirement for a Minor. Students completing this Minor must choose a Major in a single discipline.

9.1.1 Regulations

Students who minor in Aboriginal Studies shall complete a minimum of 24 credit hours including Anthropology 2414 (3 credit hours) plus

one course in any three of the following disciplines: Education, English, Geography, History, Law and Society, Linguistics, Social Work, and Sociology (9 credit hours). The remaining 12 credit hours can be chosen from any of the courses in the program. Students enrolled in the Bachelor of Education (Native and Northern) Degree Programs must contact the Native and Northern Teacher Education Office for information on which Education courses may be used for the Aboriginal Studies Minor.

9.1.2 Course List

Anthropology

Anthropology 2414
Anthropology 3240
Anthropology 4070

Archaeology

Archaeology 2481, 3290, 3291, 3510

Education

Education 2023, 2361, 3573, 4020

English

English 2160

Geography

Geography 2495

History/Anthropology

History/Anthropology 3515, 3520, 3525

History

History 2200, 4222

Law and Society

Law and Society 3012

Linguistics

Linguistics 1030, 1031, *2020, *2021, *2025, *2026, *2030, *2031, *2040, *2041, 2060, 4050-4054

Social Work

Social Work *3230, *3511, *3530, the former 5522, the former 5614

Sociology/Anthropology

the former Sociology/Anthropology 2220

* Courses marked with an asterisk * are infrequently offered or offered only in Labrador.

Note: *The normal departmental prerequisites are applicable, but Department Heads may waive course prerequisites in cases where alternate preparation can be demonstrated.*

9.2 Anthropology

www.mun.ca/anthro/

All students who major in Anthropology will be assisted by a faculty advisor who will help them in planning their academic programs. For this purpose, it is essential that students declare their major at an early stage of their studies.

Anthropology course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Anthropology**.

9.2.1 General Degree

9.2.1.1 Major

The student majoring in Anthropology must meet the requirements listed under **Program Regulations - General and Honours Degrees**. A minimum of 39 credit hours in Anthropology is required including:

1. Anthropology 1031;
2. 9 credit hours at the 2000-level chosen from any of the Anthropology courses between 2410 and 2416;
3. Anthropology 3300 and 3410;
4. 9 credit hours from Anthropology offerings at the 4000-level, of which one must be Anthropology 4412; and
5. the remaining 12 credit hours are to be chosen from any of the Anthropology 3000-or 4000-level offerings.

9.2.1.2 Minor

A minor in Anthropology requires the completion of 24 credit hours including:

1. Anthropology 1031;
2. 6 credit hours at the 2000 level chosen from any of the Anthropology courses between 2410 and 2416;
3. Anthropology 3410;
4. 6 credit hours from the 4000 level including Anthropology 4412; and
5. 6 credit hours chosen from Anthropology offerings at the 3000 level or above

9.2.2 Honours Degree

1. Admission: see **Bachelor of Arts (Honours) Degree Regulations**.
2. Students intending an Honours program are required to complete 60 credit hours in Anthropology following the requirements in Major above, but in addition must include either Anthropology 4994 and 4995, or 4996. Thirty-six of the 60 credit hours must be at the 3000 or 4000 level. Students must also meet the requirements of the **Program Regulations - General and Honours Degrees**.

9.2.3 Regulations for Joint Honours, Anthropology and Another Major Subject

1. Students must fulfil the requirements of the **Bachelor of Arts (Honours) Degree Regulations**.

2. Students must complete:
 - a. Anthropology 1031;
 - b. 9 credit hours at the 2000 level chosen from any of the Anthropology courses between 2410 and 2416;
 - c. Anthropology 3300 and 3410;
 - d. 9 credit hours in Anthropology courses at the 4000 level including Anthropology 4412; and
 - e. 15 credit hours to be chosen from any of the 3000 or 4000 level Anthropology offerings.

9.3 Archaeology

www.mun.ca/archaeology/about/

The Undergraduate Coordinator assists all Archaeology majors and minors in planning their academic programs. For this purpose students should register with the Department at an early stage of their studies.

Archaeology course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Archaeology**.

9.3.1 General Degree

9.3.1.1 First Courses

The Student majoring in Archaeology must meet the requirements listed under **Regulations for the General Degree of Bachelor of Arts**. Under these Regulations, a minimum of 36 credit hours in Archaeology is required. Students wishing to concentrate in this option must take 15 credit hours from **Group 1 (Core Courses)** which must include 1030, 2480, 4182 and 4411; 9 credit hours from **Group 2 (Field and Laboratory Courses)**; 3 credit hours from **Group 3 (Regional Courses)**; 6 credit hours from **Group 4 (Topical Courses)**. The remaining 3 credit hours may be in any other Archaeology course, except 2491, 2492 or 2493.

Course Groupings for the Archaeology Program:

Group 1 (Core Courses): 1030, 2430, 2450, 2480, 2582, 2590, 4182, 4411.

Group 2 (Field and Laboratory Courses): 3583, 3585, 3586, 3587, 3591, 3650, 3710, 3800, 3850, 3900, 4041, 4151, 4152, 4153, 4171, 4191.

Group 3 (Regional Courses): 2481, 3290, 3291, 3500, 3505, 3510, 3515, 3520, 3525, 3580, 3588, 3592, 3651.

Group 4 (Topical Courses): 3001, 3020, 3040, 3561, 3584, 3590, 3593, 3750, 3860, 4015, 4043, 4150, 4170, 4172, 4173, 4500, 4994.

9.3.1.2 Minor

A minor in Archaeology may be achieved by completing the following courses: Archaeology 1030 and 2480; 6 credit hours in Archaeology courses at the 3000-level; 3 credit hours in Archaeology courses at the 4000-level, 9 credit hours chosen from Archaeology courses at any level, except Archaeology 2491, 2492 or 2493.

9.3.2 Honours Degree

1. Students intending an Honours program are required to be majors and must complete 60 credit hours in Archaeology, including Archaeology 4994 and Archaeology 4995 (or Archaeology 4996). Students must also meet the **Regulations for the General Degree of Bachelor of Arts**, and **Regulations for the Honours Degree of Bachelor of Arts**.

9.3.3 Regulations for Joint Honours, Archaeology and Another Major Subject

1. Students must fulfill the **Regulations for the Honours Degree of Bachelor of Arts**.
2. Students must complete
 - a. Archaeology 1030;
 - b. Archaeology 2480 and 3 other credit hours in Archaeology at the 2000 level;
 - c. Fifteen credit hours in Archaeology courses at the 3000 level, chosen in consultation with a supervisor; and
 - d. Archaeology 4182 and 4411 and 9 other Archaeology credit hours at the 4000 level, with a grade of "B" or better.

9.4 Canadian Studies

www.mun.ca/interdisciplinary/canadian/

Acting Program Supervisor: Associate Dean of Arts (Undergraduate)

9.4.1 Program and Regulations

Canadian Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Canadian Studies**.

1. a. This is a multidisciplinary Major program in Canadian Studies offered to students for the Bachelor of Arts degree; and it is offered only as a second Major in conjunction with a disciplinary Major.
- b. Since the program draws upon courses in several departments, it is administered by an interdepartmental committee (The Canadian Studies Co-ordinating Committee). The Program Supervisor will advise students upon the selection of courses in the Major.
2. To qualify as a Major in Canadian Studies, students must complete a minimum of 36 credit hours in courses exclusive of their disciplinary Major, including,
 - a. A core of at least 12 credit hours from the following courses: English 2150, Geography 3405, History 2210, Political Science 2800, Sociology 2240
 - b. Canadian Studies 4000.
 - c. The remaining credit hours shall be chosen from the courses listed below, from at least four different departments, and exclusive of any courses applied towards the first Major (* indicates cross-listed courses). In the event that a course from the above core is part of the disciplinary Major, a student will be required to complete the additional credit hours from the courses listed below.

Anthropology 3240

Economics 3030, 3150, 3620*, 3711*, 4025, 4026

English 2151, 3152, 3153, 3156, 3157, 3158, 4821, 4822
 Folklore 3950, 4300, 4420*
 French 3651, 3653, 4310*, 4420*, 4500, 4501, 4502
 Geography 2105, 3701, 4640
 History 1013, 2200, 3130, 3140, 3150, 3620*, 3630*, 3650, 3821, 4240, 4241, 4242, 4245, 4249, 4250, 4251
 Law and Society 2000, 3011, 3015
 Linguistics 2025, 2026, 2030, 2031, 2060, 4310*
 Music 3016
 Political Science 1000, 1010, 3280, 3600, 3610, 3650, 3800, 3810, 3820, 3830, 3860, 3870, 3890, 4630, 4860, 4870.
 Religious Studies 3902, 3903
 Sociology 3306, 3395
 And any special topics courses approved for inclusion in this list by the Committee on Undergraduate Studies, Faculty of Arts.

- In addition, a demonstration of adequate knowledge in both written and oral French is required. A student is deemed to have demonstrated adequate knowledge upon either passing an examination set by the French Department or by completing French 2100 with a "B" standing.
- The normal departmental prerequisites are applicable, but Department Heads may waive course prerequisites in the Canadian Studies area for Canadian Studies Majors when alternate preparation can be demonstrated.

9.5 Classics

www.mun.ca/classics/home/

9.5.1 Programs and Regulations

Programs of the Department of Classics are designed to acquaint students with the ancient Greek and Roman cultures from which Western Civilization has developed. The Department endeavours to instruct with and utilize the full range of evidence available, including texts in Greek and Latin as well as material culture. Furthermore, it is understood that a degree of access can often be achieved by studying antiquity through translated sources. The Department therefore is committed to offering a wide range of courses and programs designed to explore the many aspects of the discipline.

Classics course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Classics**.

9.5.2 General Degree

9.5.2.1 Major in Classics

Candidates for a Major in Classics are advised to choose their program in consultation with the Department.

The major program consists of a minimum of 39 credit hours in Classics courses in accordance with the following:

- Either Classics 1120 and 1121 or Classics 1130 and 1131;
- at least 3 credit hours at the 4000 level;
- an additional 12 credit hours at the 3000 level or above; and
- an additional 18 credit hours at any level. With the exception of first year language courses, no more than six 1000-level credit hours may be counted towards the major.

9.5.2.2 Minor in Classics

The Minor program in Classics consists of a minimum of 24 credit hours in Classics courses in accordance with the following:

- At least 3 credit hours at the 3000 level or above.
- With the exception of first-year language courses, no more than six 1000-level credit hours may be counted towards the minor.

9.5.3 Honours Degree

9.5.3.1 Honours Degree in Classics

Students for Honours in Classics shall consult the Department before finalizing their program.

- Classics 1120 and 1121 and Classics 1130 and 1131;
- At least 9 credit hours selected from Classics 2200, 2300, 3200, and 3300;
- Classics 4999;
- At least 36 additional credit hours in Classics at the 3000 level or above, of which 18 must be in Latin or Greek. Classics 2302 may be substituted for a course at the 3000 level.

9.5.3.2 Joint Honours in Classics

Classics may be combined with another subject to form a Joint Honours program. The Joint Honours Program in Classics shall include at least 51 credit hours in Classics, including the following.

- Classics 1120 and 1121 or Classics 1130 and 1131;
- At least 6 credit hours selected from Classics 2200, 2300, 3200, and 3300;
- At least 30 additional credit hours in Classics at the 3000 level or above, of which at least 15 must be in Greek or Latin. Classics 2302 may be substituted for courses at the 3000 level.

9.5.3.3 Honours in Greek and Roman Studies

Students for Honours in Greek and Roman Studies shall consult the Department before finalizing their program.

- One of following: Classics 1050, 1051, 1052, 1100 or 1200;
- Either a. or b.:
 - Classics 1120 and 1121
 - Classics 1130 and 1131

3. 15 credit hours in courses at the 2000 level;
4. 36 credit hours in courses at the 3000 level or above, including 4999.

9.5.3.4 Joint Honours in Greek and Roman Studies

Greek and Roman Studies may be combined with another subject to form a Joint Honours program. The Joint Honours Program in Greek and Roman Studies shall include at least 51 credit hours in Classics.

1. One of following: Classics 1050, 1051, 1052, 1100 or 1200;
2. Either a. or b.:
 - a. Classics 1120 and 1121
 - b. Classics 1130 and 1131
3. 15 credit hours in courses at the 2000 level;
4. 27 credit hours in courses at the 3000 level or above.

9.6 Communication Studies

www.mun.ca/interdisciplinary/communications/

Program Co-ordinator: Dr. E. Warkentin, Head, Department of German and Russian

This inter-disciplinary Major program is offered to students for the Degree of Bachelor of Arts. It is offered in conjunction with a major or a minor in a single discipline.

The Communication Studies program aims to provide explanatory frameworks and critical methodologies, drawn from a variety of disciplines, for understanding how communication and media are integral to the changing relationships between a variety of agents and agencies, from the individual to the nation-state and from personal interactions to international relations.

Communication Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Communication Studies**.

9.6.1 Program and Regulations

Students who major in Communication Studies shall complete a minimum of 36 credit hours in courses which shall include 9 credit hours in Core Courses and 27 credit hours in at least 3 different disciplines as outlined below.

9.6.1.1 Core Courses

Students who major in Communication Studies shall complete a minimum of 36 credit hours in courses which shall include the following:

1. Communication Studies 2000
2. Communication Studies 2001
3. Communication Studies 4000

9.6.1.2 Additional Credit Hours

Students are required to complete an additional 27 credit hours in at least 3 different disciplines and chosen from the lists below including:

1. a maximum of 12 credit hours from **List B**;
2. a maximum of 12 credit hours at the 2000 level in addition to Communication Studies 2000 and Communication Studies 2001;
3. a minimum of 9 credit hours at the 3000 level; and
4. a minimum of 3 credit hours at the 4000 level in addition to Communication Studies 4000.

9.6.1.3 Elective Courses

Courses may be selected from the following two lists and/or as approved by the Program Coordinator.

List A

Anthropology 3630 or Sociology 3630: New Media Methods in Social Research
 Computer Science 2000: Collective and Emergent Behaviour
 English 2700: Writing and Gender I
 Folklore 1060: Folklore and Culture
 Folklore 3850: Material Culture
 Folklore 3930: Folklore and Popular Culture
 Gender Studies 2005: Identities and Difference
 Gender Studies 3005: Feminist Texts, Theories and Histories
 Linguistics 2100: Language and Communication
 Philosophy 2571: Technology
 Philosophy 3600: Philosophy of the Humanities
 Philosophy 3620: Philosophy of Art
 Philosophy 4250: Seminar in Metaphysics and Epistemology
 Philosophy 4300: Seminar in Ethics
 Political Science 3350: Public Opinion and Voting
 Political Science 3860: Media and Politics in Canada
 Religious Studies 2812: Religion and Popular Culture
 Sociology 2120: Technology and Society
 Sociology 2210: Communication and Culture
 Sociology 4107: Women and Technological Change
 Any Special Topics courses approved for inclusion in this list by the Committee on Undergraduate Studies, Faculty of Arts, upon the recommendation of the Program Co-ordinator.

List B

English 2850: What is Film?
 English 2851: Introduction to Film Form and Film Theory
 English 3813: Theories of National Cinema

German 3000: German Film I
 German 3001: German Film II
 German 3002: Post-Wall Cinema
 German 3003: DEFA, The Cinema of East Germany
 History 3748: History of Film: The American Cinema
 History 3790: Reel American History: US History through its Films, 1895-1945
 History 3795: Reel American History: US History through its Films since WWII
 History 4695: The Middle Ages on Film
 Philosophy 2581: Philosophy of Film
 Religious Studies 1022: Jesus in Film
 Russian 3023: Post-Soviet Russia: Media and Film

Any Special Topics courses approved for inclusion in this list by the Committee on Undergraduate Studies, Faculty of Arts, upon the recommendation of the Program Co-ordinator.

The normal departmental prerequisites are applicable, but Department Heads may waive course prerequisites in cases where alternate preparation can be demonstrated.

9.7 Computer Science

For Departmental Regulations and Course Descriptions, see **Faculty of Science** section of the Calendar.

The following undergraduate programs are available in the Department of Computer Science:

1. Applied Mathematics and Computer Science Joint Major (B.Sc. only)
2. Computer Internship Option (CIIO) (B.Sc. and B.Sc. Honours only)
3. Computer Science and Economics Joint Major (B.Sc. Only)
4. Computer Science and Geography Joint Honours (B.Sc. only)
5. Computer Science/ and Geography Joint Major (B.Sc. only)
6. Computer Science and Physics Joint Honours
7. Computer Science and Physics Joint Major
8. Computer Science and Pure Mathematics Joint Honours (B.Sc. only)
9. Computer Science and Pure Mathematics Joint Major (B.Sc. only)
10. Computer Science and Statistics Joint Honours
11. Computer Science and Statistics Joint Major (B.Sc. only)
12. Honours in Computer Science (B.A., B.Sc.)
13. Honours in Computer Science (Software Engineering) (B.Sc. only)
14. Major in Computer Science (B.A., B.Sc.)
15. Minor in Computer Science (B.A., B.Sc.)

9.8 Drama and Music

www.mun.ca/interdisciplinary/dramamusic/

Note: *The Major program in Drama and Music is currently under review and will not be available for admission for the 2012-2013 year. For further information please contact the Department of English Language and Literature.*

1. a. This is an Interdisciplinary Major Program in Drama and Music offered to students for the Bachelor of Arts degree, under paragraph 3. b. of the **Regulations for the General Degree of Bachelor of Arts**.
 b. Since the program is interdisciplinary, it is administered by an interdepartmental committee (The Drama and Music Co-ordinating Committee). The Program Supervisor will advise students upon the selection of courses in the Major.
2. To qualify as a Major in Drama and Music, students must complete a minimum of 54 credit hours as follows:
 - a. **Department of English - Drama Courses**
 Students must complete at least 27 credit hours in English, as follows:
 - i. Six credit hours in English at the 1000 level, preferably including 1102
 - ii. 2002, 3350, 3351, 4400, 4401
 - iii. Three additional credit hours in English at the 2000 level
 - iv. Three credit hours in courses chosen from 3021, 3022, 3156, 3171, 3181, 3200, 3201, 3260, 3302, 4302.
 - b. **School of Music - Music Courses**
 - i. Students must complete at least 27 credit hours in Music, as follows:
 - Two of Music 2011, 2012, 2014
 - Music 1107, 1108, 1117, 1118, 1127 or 1137, and 1128 or 1138
 - Music 2107 and 2117
 - Music 2311
 - Music 2013 or Music 3007
 - Two credit hours of conducted ensemble.
 - ii. Further courses in music theory and/or music history may be chosen as Arts electives.
 - iii. Course prerequisites stipulated in the course descriptions must be met. In particular, note the prerequisites for Music 1107 and 1127.
 - iv. Most music courses are not offered every semester, and some are offered only in alternate years.

9.9 Economics

www.mun.ca/econ/home/

The following programs are available in the Department:

1. Major in Economics (B.A. or B.Sc.)

2. Honours in Economics (B.A. or B.Sc.)
3. Honours in Economics (Co-operative), (B.A. or B.Sc.)
4. Minor in Economics
5. Joint Programs (B.Sc. Only)
6. Joint Program (Co-operative) (B.Sc. Only)
7. Major in Economics (Co-operative) (B.A. or B.Sc.)

Economics course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Economics**.

9.9.1 Admission Regulations (B.Sc.)

Students are normally admitted to the B.Sc. Program upon successful completion of 30 credit hours which must include:

1. Six credit hours in English courses
2. Six credit hours in Mathematics courses

9.9.2 Major in Economics (B.A. or B.Sc.)

1. Students may Major in Economics as part of either a B.A. or a B.Sc program. See the **Regulations for the General Degree of Bachelor of Arts** and B.Sc. Degrees as appropriate.
2. Economics 2010 and 2020 are prerequisites for all other Economics courses except Economics 2070.
3. Economics 2550, 3000 and 3010 are prerequisites for all 4000-level courses.
4. Students shall consult with the Head of the Department or delegate when choosing courses for a Major in Economics.
5. Mathematics 1000 or its equivalent is the prerequisite for Economics 3000, 3010, and 3550.
6. B.A. students who undertake a Major in Economics shall complete Statistics 2500 and at least 39 credit hours in courses in Economics of which:
 - a. 2010, 2020, 2550, 3000, 3001, 3010 and 3550 are obligatory.
 - b. Eighteen credit hours shall be chosen from among the various Economics courses in consultation with the Head of the Department or delegate, and will include at least 9 credit hours in courses at the 4000-level.
 - c. Students may, with the approval of the Head of the Department or delegate, substitute Statistics 2510 for Statistics 2500.
7. B.A. students majoring in Economics shall complete a minor of 24 credit hours in one other approved subject, or a second Major in accordance with **Regulations for the General Degree of Bachelor of Arts**. It is recommended that the Minor or second Major be chosen from the following subjects: Business, Mathematics, Political Science, Statistics, Computer Science, History, Geography, Philosophy, Sociology, or Anthropology.
8. B.Sc. students who undertake a Major in Economics shall complete at least 42 credit hours in courses in Economics of which:
 - a. 2010, 2020, 2550, 3000, 3001, and 3010 are obligatory
 - b. Six credit hours shall be chosen from either 3550 and 3551, OR 4550 and 4551
 - c. Eighteen credit hours shall be chosen from among the various Economics courses in consultation with the Head of the Department or delegate, and will include at least 9 credit hours in courses at the 4000-level.
9. B.Sc. students must complete credits from other Science disciplines as follows:
 - a. Mathematics 1000, 1001, and 2050
 - b. Statistics 2510, or its equivalent, and an additional 3 credit hours of Statistics
 - c. Computer Science 1700, and an additional 3 credit hours of Computer Science. With the approval of the Head of the Department or delegate, students may substitute another 1000-level Computer Science course for Computer Science 1700. Minors in Computer Science should enroll in Computer Science 1710.
 - d. At least 3 credit hours in an additional science subject other than Mathematics/Statistics, Economics, and Computer Science

9.9.3 Honours in Economics (B.A. or B.Sc.)

1. See the General Regulations for the B.A. and B.Sc. (Honours) Degrees.
2. All students shall consult with the Head of the Department or delegate when choosing courses for an Honours program.
3. All students shall complete all non-Economics courses required of B.A. or B.Sc. Majors, and at least 60 credit hours in courses in Economics, of which 2010, 2020, 2550, 3000, 3001, 3010, 3011, 3550, 3551, 4550 and 4551 shall be chosen.
4. Twenty-four credit hours in electives in Economics shall be chosen in consultation with the Head of the Department or delegate, including at least 9 credit hours in courses at the 4000-level. In addition, all Economics Honours students are required to write an essay.

9.9.4 Minor in Economics

1. Economics 2010, 2020, 3000, and 3010 are obligatory.
2. Mathematics 1000 or its equivalent is the prerequisite for Economics 3000, 3010 and 3550.
3. Twelve credit hours in Economics electives shall be chosen in consultation with the Head of the Department or Delegate.
4. Course prerequisites stipulated in the General Degree regulations and in the course descriptions shall apply to a Minor in Economics.

9.9.5 Joint Programs

Programs for Joint Majors in Economics and Computer Science, Pure Mathematics, Applied Mathematics or Statistics, and a Joint Major in Statistics and Economics (Co-operative) are found under the heading **Joint Programs** in the entry for the Faculty of Science.

Students who wish to take a Joint Major in Economics and Computer Science, Mathematics or Statistics must arrange their program in consultation with the heads of the respective departments and comply with the General Regulations for the Majors Degrees.

9.9.6 Major in Economics (Co-operative) (B.A. or B.Sc.)

9.9.6.1 Economics Co-operative Education Option (ECEO)

This Economics Program is available to full-time Economics majors (B.A. and B.Sc.) only.

The ECEO provides an excellent mutual opportunity for students and employers. Qualified students will obtain rewarding employment experience in fields related to Economics for several months of continuous duration. Students will learn valuable practical skills in an employment situation during their course of study. Furthermore, paid employment will help to defray the cost of their education. The timing of the Work Terms and the structure of the ECEO generally are such that employers stand to gain from the acquired employable skills of economists in training. The objectives of the Work Term component of the ECEO are embodied in the Work Term descriptions below. The descriptions serve to guide the student and the employer toward achieving these objectives.

1. Admission Requirements

- Admission is competitive and selective. Therefore, prospective students are encouraged to consider an alternate degree program in the event that they are not accepted into the Co-operative program.
- Applicants should note that it is possible to enter Term 1 only in the Fall semester commencing in September of each academic year. Application forms are available in the Department of Economics. The deadline for applications for admission to Term 1 is March 1.
- The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Students with weak overall academic records are unlikely to be admitted.
- To be eligible for admission to Term 1 an applicant must have successfully completed a minimum of 30 credit hours with an overall average of at least 65% as follows: All applicants must have completed Economics 2010 and 2020; at least 6 credit hours in English*; Mathematics 1000; and 15 credit hours chosen from courses in the Faculties of Arts** Business or Science. B.Sc. applicants must have completed Mathematics 1001.

*It is recommended that students complete English 1110 as one of these English courses.

It is also advised that B.A. students choose courses which can satisfy the requirements for the **Core Program (see **Regulations for the General Degree of Bachelor of Arts** for these requirements), including courses in a second language.

- Students may apply for admission to Advanced Standing.
- Transfer students from other universities will be placed in that term of the program judged to be appropriate considering equivalent credits, as determined by the Department.

2. Program of Study

- Promotion from each of Terms 1 through 6 requires a passing grade in all specified required courses and an overall average of at least 60% in all courses including electives. A student who fails a required course or fails to maintain the overall average of 60% will not be promoted to the next term and will be required to withdraw from the program. The student in question may apply for readmission in a subsequent year after passing the specified required course(s) previously failed, or re-establishing the 60% average.
- In addition to the 30 credit hours required for admission, students are required to complete the six academic terms in the ECEO program for a total of 120 credit hours. Students must complete three Work Terms which follow Academic Terms 2, 4, and 5.
- Courses shall normally be taken in academic terms or "blocks" in the sequenced course load and order as set out in the table **Major in Economics (Co-operative Option) B.A. Academic Course Program** or in the table **Major in Economics (Co-operative Option) B.Sc. Academic Course Program**. Unspecified credits may be used to fulfill elective requirements only.
- UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) Classification of Students** notwithstanding, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.

3. Work Term Placement

- General management of the work terms in the ECEO is the responsibility of the Division of Co-operative Education (DCE). It is responsible for assisting potential employers to become involved in the program, organizing competitions for Work Term employment, arranging student-employer interviews and facilities, data base management, and for the continual development of employment opportunities. The program co-ordinator (hereafter referred to as co-ordinator) is an Academic Staff member who will work with the department to counsel students, visit students on their work assignments and evaluate the work term.
- Work placement is not guaranteed but every effort is made to ensure that appropriate employment is made available. In the case of students who are required to withdraw from the program, the DCE has no responsibility for placement until they have been re-admitted to the program.
- A student who applies for admission to the co-op program gives permission to the University to provide a copy of the applicant's resume, university transcript and work term evaluations to potential employers.
- A student who has been accepted to the ECEO program may obtain his/her own work term placement outside the competition. Such employment positions must be confirmed by the employer, and must be approved by the co-ordinator.
- Students are expected to submit, within a month from starting a Work Term, a plan of the intended work that term.
- Salaries paid to co-operative students are determined by employers based on their internal wage structures, and tend to increase as the student progresses through the program and assumes more responsibility. However, students should not expect the income from work terms to make them completely self-supporting.

4. Registration and Evaluation of Performance

- In Work Terms I, II, and III, students must register for Economics 299W, 399W, and 499W respectively.
- Student performance evaluations are to be completed by the employer and returned to the co-ordinator. The Work Term evaluations shall consist of two components:
 - On-the-job Student Performance:
Job performance shall be assessed by the co-ordinator in consultation with the department using information gathered during the Work Term and input from the employer towards the end of the Work Term. Formal written documentation from the employer shall be sought. Evaluation of the job performance will result in one of the following classifications: OUTSTANDING, ABOVE EXPECTATIONS, SATISFACTORY, MARGINAL PASS, FAIL.
 - The Work Report:
 - Students are required to submit a Work Term report to the co-ordinator on the first day of final exams.

- Work Term reports shall be evaluated by a faculty member and the co-ordinator.
- If an employer designates a report to be of a confidential nature, both employer and the co-ordinator must agree as to the methods to protect the confidentiality of such a report before the report may be accepted for evaluation.
- Reports must contain original work related to the Work Term placement. The topic must relate to the work experience and will be chosen by the student in consultation with the employer. The topic must be approved by the co-ordinator or a faculty member of the Department of Economics.

Evaluation of the work term will result in one of the following classifications: OUTSTANDING, ABOVE EXPECTATIONS, SATISFACTORY, MARGINAL PASS, FAIL.

The evaluation of the job performance and the work term report are recorded separately on the transcript. Overall evaluation of the work term will result in one of the following final grades being awarded:

- Pass with Distinction: Indicates OUTSTANDING PERFORMANCE in both the work report and the job performance.
- Pass: Indicates that PERFORMANCE MEETS EXPECTATIONS in both the work report and the job performance.
- Fail: Indicates FAILING PERFORMANCE in the work report or the job performance.

For promotion from the Work Term, a student must obtain at least a Pass. Students should also refer to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)** of the University.

The grades awarded for each work term will be noted on the transcript of the student.

- If a student fails to achieve the Work Term standards specified above the student will be required to withdraw from the program. Such a student may reapply to the program after a lapse of two semesters, at which time the student will be required to repeat the Work Term with satisfactory performance before being admitted to any further academic term in the Faculty. A given work term may be repeated only once, and not more than two work terms may be repeated in the entire program.
- In order to be considered for readmission, students must formally apply for readmission to the program not later than the deadline date specified in Clause b. of the Admission section 1. above.
- A student who withdraws from a Work Term without acceptable cause subsequent to a job placement will be required to withdraw permanently from the Co-operative education program. Students who drop a Work Term without prior approval from both the co-ordinator and the Head of the Department of Economics, or who fail to honour an agreement to work with an employer, or conduct themselves in such a manner as to cause their discharge from the job will normally be awarded a failed grade for the Work Term in question. Permission to drop a Work Term does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved Work Term in lieu of the one dropped.

9.9.7 Honours in Economics (Co-operative), (B.A. or B.Sc.)

9.9.7.1 Admission Requirements

See Major in Economics (Co-operative), (B.A. or B.Sc.) Economics Co-operative Education Option (ECEO) and the General Regulations for the B.A. and B.Sc. (Honours) Degrees.

9.9.7.2 Program of Study

- See the General Regulations for the B.A. and B.Sc. (Honours) Degrees.
- All students shall consult with the Head of the Department or delegate when choosing courses for an Honours program.
- All students shall complete all non-Economics courses required of B.A. or B.Sc. Majors, and at least 60 credit hours in Economics, of which 2010, 2020, 2550, 3000, 3001, 3010, 3011, 3550, 3551, 4120, 4550 and 4551 shall be chosen.
- Twenty-one credit hours in electives in Economics shall be chosen in consultation with the Head of the Department or delegate, including at least 6 credit hours in courses at the 4000-level. In addition, all Economics Honours students are required to write an essay.
- Promotion from each of Terms 1 through 6 requires a grade of 70% in all specified required courses and an overall average of at least 70% in all courses including electives. A student who fails a required course or fails to maintain an overall average of 70% will not be promoted to the next term and will be required to withdraw from the program. The student in question may be eligible from readmission in the subsequent year after passing the specified required course(s) previously failed, or re-establishing the 70% average. See also **UNIVERSITY REGULATIONS - Regulations for the Honours Degree**.
- In addition to the 30 credit hours required for admission, students are required to complete the six academic terms in the ECEO program for a total of 120 credit hours. Students must complete three Work Terms, which follow Academic Terms 2, 4 and 5.
- Courses shall normally be taken in academic terms or "blocks" in the sequenced course load and order set out in the table **Honours in Economics (Co-operative Option) B.A. Academic Course Program** or in the table **Honours in Economics (Co-operative Option) B.Sc. Academic Course Program**. Unspecified credits may be used to fulfill elective requirements only.
- UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**, Classification of Students notwithstanding, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.

9.9.7.3 Work Term Placement

See Major in Economics (Co-operative), (B.A. or B.Sc.) Economics Co-operative Education Option (ECEO).

9.9.7.4 Registration and Evaluation of Performance

See Major in Economics (Co-operative), (B.A. or B.Sc.) Economics Co-operative Education Option (ECEO).

Major in Economics (Co-operative Option) B.A. - Academic Course Program Table

Term 1 (Fall) Economics 3000 Economics 3550 Statistics 2500 Six Credit Hours in Minor, Core and elective courses [see Notes 1. and 2. below]	Work Term II (Spring) Economics 399W
Term 2 (Winter) Economics 3001 Economics 3010 Economics 2550 Six credit hours in Minor, Core and elective courses [see Notes 1. and 2. below]	Term 5 (Fall) Six further credit hours in Economics courses Nine credit hours in Minor, Core and elective courses [see Notes 1. and 2. below]
Work Term I (Spring) Economics 299W	Work Term III (Winter) Economics 499W
Term 3 (Fall) Economics 4550 Twelve credit hours in Minor, Core and elective courses [see Notes 1. and 2. below]	Term 6 (Spring) Six further credit hours in Economics courses Nine credit hours in Minor, Core and elective courses [see Notes 1. and 2. below]
Term 4 (Winter) Economics 3011 Economics 4120 Economics 4551 Six credit hours in Minor, Core and elective courses [see Notes 1. and 2. below]	

- Notes: 1. Courses specified for admission to and completion of the ECEO only partially satisfy the **Core Requirements** for the Degree of Bachelor of Arts. Additional Core Requirements are 6 credit hours in the same second language, 3 credit hours in a Social Science course (other than Economics), 12 credit hours in Humanities courses, as well as 6 credit hours in research/writing courses (which may be met within the major and minor programs and/or in courses completed for the Social Science and Humanities requirements). These additional requirements should be completed before and following admission to Term 1 as part of the Minor program and elective components of the degree. Students are reminded that careful planning is necessary to ensure that all Core and minor requirements are satisfied.
2. A minor is required for a B.A. degree in Economics.

Major in Economics (Co-operative Option) B.Sc. - Academic Course Program Table

Term 1 (Fall) Economics 3000 Economics 3550 Statistics 2510 Computer Science 1700 Three credit hours in elective courses [see Note 1.]	Work Term II (Spring) Economics 399W
Term 2 (Winter) Economics 3001 Economics 3010 Economics 2550 Mathematics 2050 Three credit hours in elective courses [see Note 1.]	Term 5 (Fall) Six further credit hours in Computer Science courses [see Note 2.] Nine credit hours in elective courses [see Note 1.]
Work Term I (Spring) Economics 299W	Work Term III Economics 499W
Term 3 (Fall) Economics 4550 Three further credit hours in Economics courses Nine credit hours in elective courses	Term 6 (Spring) Six further credit hours in Economics courses Nine credit hours in elective courses [see Note 1.]
Term 4 (Winter) Economics 3011 Economics 4120 Economics 4551 Three further credit hours in Statistics courses [see Note 2.] Three credit hours in elective courses [see Note 1.]	

- Notes: 1. Elective courses should be chosen with reference to the Regulations for the General Degree of Bachelor of Science, since courses specified for admission to and completion of the ECEO only partially satisfy these regulations. In particular note that (i) at least 78 credit hours (26 courses) in Science subjects are required and that (ii) at least 3 credit hours in an additional Science subject other than Mathematics/Statistics, Economics and Computer Science must be included in these Science courses.
2. The Statistics and Computer Science elective courses may both be taken in either Term 4 or 5.

Honours in Economics (Co-operative Option) B.A. - Academic Course Program Table

Term 1 (Fall) Economics 3000 Economics 3550 Statistics 2500 Six credit hours in Minor, Core and elective courses [see Notes 1. and 2.]	Work Term II (Spring) Economics 399W
Term 2 (Winter) Economics 3001 Economics 3010 Economics 2550 Six credit hours in Minor, Core and elective courses [see Notes 1. and 2.]	Term 5 (Fall) Nine further credit hours in Economics courses [see Note 3.] Six credit hours in Minor, Core and elective courses [see Notes 1. and 2.]
Work Term I (Spring) Economics 299W	Work Term III (Winter) Economics 499W
Term 3 (Fall) Economics 4550 Six further credit hours in Economics courses [see Note 3.] Six credit hours in Minor, Core and elective courses [see Notes 1. and 2.]	Term 6 (Spring) Six further credit hours in Economics courses [see Note 3.] Nine credit hours in Minor, Core and elective courses [see Notes 1. and 2.]
Term 4 (Winter) Economics 3011 Economics 3551 Economics 4120 Economics 4551 Three credit hours in Minor, Core and elective courses [see Notes 1. and 2.]	

- Notes: 1. Courses specified for admission to and completion of the ECEO only partially satisfy the **Core Requirements** for the Degree of Bachelor of Arts (Honours). Additional Core Requirements are six credit hours in the same second language, three credit hours in a Social Science course (other than Economics), twelve credit hours in Humanities courses, as well as six credit hours in research/writing courses (which may be met within the major and minor programs and/or in courses completed for the Social Science and Humanities requirements). These additional requirements should be completed before and following admission to Term 1 as part of the Minor program and elective components of the degree. Students are reminded that careful planning is necessary to ensure that all Core and minor requirements are satisfied.
2. A minor is required for a B.A. degree (Honours) in Economics.
3. Twenty-one credit hours in electives in Economics shall be chosen in consultation with the Head of Department or delegate, including at least 6 credit hours in courses at the 4000-level. In addition, all Economics Honours students are required to write an essay.

Honours in Economics (Co-operative Option) B.Sc. - Academic Course Program Table

Term 1 (Fall) Economics 3000 Economics 3550 Statistics 2510 Computer Science 1700 [see Note 1] Three credit hours in elective courses [see Note 2.]	Work Term II (Spring) Economics 399W
Term 2 (Winter) Economics 3001 Economics 3010 Economics 2550 Mathematics 2050 Three credit hours in elective courses [see Note 2.]	Term 5 (Fall) Six further credit hours in Computer Science courses [see Note 4.] Nine further credit hours in Economics courses [see Note 3.]
Work Term I (Spring) Economics 299W	Work Term III (Winter) Economics 499W
Term 3 (Fall) Economics 4550 Six further credit hours in Economics courses [see Note 3.] Six credit hours in elective courses [see Note 2.]	Term 6 (Spring) Six further credit hours in Economics courses [see Note 3.] Nine credit hours in elective courses [see Note 2.]
Term 4 (Winter) Economics 3011 Economics 3551 Economics 4120 Economics 4551 Three further credit hours in Statistics courses [see Note 4.]	

- Notes: 1. Another 1000-level Computer Science course may be substituted for Computer Science 1700 with the approval of the Department Head.
2. Elective courses should be chosen with reference to the Regulations for the Honours Degree of Bachelor of Science, since courses specified for admission to and completion of the ECEO only partially satisfy these regulations. In particular note that (i) at least 90 credit hours in Science subjects are required and that (ii) at least three credit hours in an additional Science subject other than Mathematics/Statistics, Economics and Computer Science must be included in these Science courses.
3. Twenty-one credit hours in electives in Economics shall be chosen in consultation with the Head of Department or delegate, including at least 6 credit hours in courses at the 4000-level. In addition, all Economics Honours students are required to write an essay.
4. the Statistics and Computer Science elective courses may both be taken in either Term 4 or 5.

9.10 English Language and Literature

www.mun.ca/english/home/

English Language and Literature course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, English Language and Literature**.

9.10.1 General Degree

1. One of English 1000 or 1080, and one of English 1001, 1101, 1102, 1103, 1110 are prerequisites for all other courses. In the case of students whose first language is not English and who take 1020 or 1030, that course and one of English 1000, 1001, 1021, 1080, 1101, 1102, 1103 are prerequisites for all other courses.
2. Students who choose English as their Major must include 36 credit hours in courses in the subject, including:
 - a. Six credit hours in English courses at the first-year level (see Clause 1. above).
 - b. English 2000 and 2001;
 - c. English 3200 or 3201;
 - d. Three credit hours in Canadian literature;
 - e. Three credit hours in American literature;
 - f. Six credit hours at the 4000-level;
 - g. Nine credit hours in additional English courses.

Notes: 1. *At least 9 credit hours must be at the 3000-level.*

2. *Students must normally complete English 2000 and English 2001 before they are eligible to register for courses at the 4000-level.*

3. In addition to the general major defined in 2. above, students may take a specialization in theatre/drama within the English major. In this specialization, students must complete 36 credit hours in courses as follows:
 - a. Six credit hours in English courses at the first-year level (see Clause 1. above).
 - b. English 2000, 2002, 3350, 3351, 4400, 4401;
 - c. Three credit hours in one of 3200, 3201;
 - d. Three credit hours in one of 4300, 4301;
 - e. Three credit hours in one of English 3156, 3171, 3260 or 4302;
 - f. Three credit hours in one of English 3021, 3022, 3181, or 3302.
4. In addition to the general major defined in 2. above students may take a specialization in language within the English major. In this specialization students must complete 42 credit hours in courses as follows:
 - a. Six credit hours in courses at the first-year level (see **Clause 1.** above).
 - b. English 2000, 2400, 2401;
 - c. Three credit hours in one of 2390, 3651;
 - d. Three credit hours in one of 3200, 3201;
 - e. At least 21 credit hours chosen from the following courses, of which at least two courses shall have an initial digit "3" and at least two courses an initial digit "4": 2600, 2601, 3500, 3501, 3650, 3651, 3700, 3814, 4403, 4420, 4421, 4500, 4501, 4600, and 4601. Students in this specialization are advised to take 2390 before 3650 and to take 2400 before 2401.
5. Students who choose English as their minor must complete at least 24 credit hours in the subject. These must include:
 - a. Six credit hours in courses at the first-year level (see **Clause 1.** above).
 - b. One of English 2002, 2003, 2004, 2120, 2121, 2210, 2211, 2212, 2213, 2214, 2811;
 - c. One of English 3200 or 3201;
 - d. Three credit hours in Canadian literature;
 - e. Nine credit hours in additional English courses.

Note: *At least 9 credit hours must be at the 3000-level.*

Requirements for the minor may not be chosen from courses conducted by another Department.
6. No student shall register in any course having an initial digit "3" unless he/she has successfully completed at least 6 credit hours in courses having an initial digit "2".
7. No student shall register in any course having an initial digit "4" unless he/she has successfully completed at least 6 credit hours in courses having an initial digit "3".
8. The programs at the Grenfell Campus contain some courses that are not available in St. John's. Hence, students wishing to transfer from the St. John's campus to Grenfell Campus may have difficulty in completing their program in a timely fashion.

9.10.2 Honours Degree With English as Major Subject

1. Courses will be chosen in consultation with the Head of Department.
2. Students who choose to complete an Honours in English must complete 60 credit hours in the subject, including:
 - a. Six credit hours in courses at the first-year level (see **Clause 1.** above under **English Language and Literature, General Degree**).
 - b. English 2000 and 2001;
 - c. One of English 3200 or 3201;
 - d. Three credit hours in Canadian literature;
 - e. Three credit hours in American literature;
 - f. English 4100 and 4101;
 - g. English 4900;
 - h. Three credit hours in pre-19th century literature (excluding 3200 and 3201);
 - i. Three credit hours in 19th century literature;

- j. Three credit hours in 20th century literature;
- k. Two of 2600, 2601, 3500, 3501, 3600;
- l. Twelve credit hours in additional English courses, three of which must be at the 3000-level and six of which must be at the 4000-level;
- m. English 4999.

Notes: 1. *At least 36 of the 60 credit hours required must be in English courses at the 3000-level or above. Courses at the 4000-level may not be chosen from those conducted by another department.*
 2. *A course that considers more than one national literature or century fulfills only one requirement for the Honours degree in English.*

- 3. In their final year, all Honours students are required to present an Honours Essay (4999); the topic of the Honours Essay is to be approved by the Head.

9.10.3 Joint Honours Degree in English and Another Major Subject

- 1. See **Regulations for the Honours Degree of Bachelor of Arts**.
- 2. Students shall complete at least 45 credit hours in courses in English including the first-year; and a student's program must be approved by the Head of the Department and conform to the General Regulations for Joint Honours degrees.
- 3. The 45 credit hours shall include:
 - a. Six credit hours in courses at the first-year level (see **Clause 1.** above under **English Language and Literature, General Degree**).
 - b. English 2000 and 2001;
 - c. One of English 3200 or 3201;
 - d. Three credit hours in Canadian literature;
 - e. English 4100 and 4101;
 - f. English 4900;
 - g. Three credit hours in pre-19th century literature (excluding 3200/3201);
 - h. Three credit hours in 19th century literature;
 - i. Three credit hours in 20th century literature;
 - j. Nine credit hours in additional English courses, three of which must be at the 3000-level and six of which must be at the 4000-level.

Note: *At least 27 of the 45 credit hours required must be in English courses at the 3000-level or above. Courses at the 4000-level may not be chosen from those conducted by another department.*

9.11 English as a Second Language

www.mun.ca/esl/about/

English as a Second Language course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, English as a Second Language**.

The English as a Second Language Office, affiliated with the Department of English Language and Literature, and under the auspices of the Faculty of Arts, offers year-round programs for adult students wishing to improve their English language skills and learn about Canadian culture. These include:

- 1. A five-week intensive English Language Summer School program;
- 2. English language preparation for students enrolled in graduate programs such as the Master's in Business Administration and Master's of Engineering;
- 3. Tutorials, workshops, and conversation programs for current Memorial University of Newfoundland students in undergraduate and graduate degree programs;
- 4. Custom-designed language and culture programs for schools, universities, or businesses. These can be developed on contract and are either for general learning purposes or to suit the needs of specific disciplines or professions; and
- 5. Twelve-week non-credit Intensive English Programs which are offered year-round on a semesterized basis.

Information regarding the above services is available from the Director of English as a Second Language programs at Memorial University of Newfoundland. Information regarding the **Intensive English Programs** is provided below.

A **Diploma in teaching English as a Second Language** is also offered through the Faculty of Arts. Information regarding that program can be found under the Faculty of Arts in this Calendar.

9.11.1 Intensive English Program

Memorial University of Newfoundland's full-time, non-credit Intensive English Program (IEP) is designed to improve English language skills for academic, professional and personal purposes. Reading, writing, speaking and listening skills are covered, and workshops on culture and social activities promoting integration with the local community also form part of the program.

The IEP is offered at intermediate to advanced levels in each of the Fall, Winter, and Spring terms. The program consists of two required courses: English as a Second Language 011F, Core Intensive English, and English as a Second Language 012F, Speaking, Listening, and Culture. Students admitted to the IEP must normally register for both courses each semester.

Students wishing to complete the Intensive English Program in preparation for admission to Memorial University of Newfoundland as undergraduate degree students may apply for this program at the same time as they apply for admission to undergraduate studies. Subject to **General Academic Regulations (Undergraduate)**, **Admission/Readmission to the University (Undergraduate)**, governing admission for undergraduate studies, and the regulations in place for admission to specific programs, students may be provisionally admitted for studies at an undergraduate level in an upcoming term if they are currently enrolled in the Intensive English Program. The **General Academic Regulations (Undergraduate)**, **Admission/Readmission to the University (Undergraduate)**, governing Admission/Readmission to this University, also contained in this Calendar, should be reviewed carefully by students as well.

Final admission for provisionally admitted students will be subject to successful completion of the Intensive English Program with an acceptable score on the Canadian Academic English Language (CAEL) Assessment. The CAEL Assessment is administered as part of the Intensive English Program at the end of each semester. Students enrolled in the Intensive English Program may be considered for enrolment in the Intensive English Bridge Program under the conditions described as the Admission requirements for that program.

Students at any level in the program may take the CAEL Assessment at the end of the semester. The number of semesters of Intensive English study required to achieve a student's desired level of proficiency will vary according to his or her initial proficiency level and individual progress rate.

9.11.1.1 Admission Requirements

Applicants to the Intensive English Program:

1. must be at least 18 years old, and
2. must hold a valid high school diploma, and
3. should have an elementary level of English proficiency.

Applications for the Intensive English Program must be submitted directly in writing to Director, English as a Second Language Programs, Memorial University of Newfoundland, St. John's, NL, A1B 3X9, Canada.

9.11.1.2 Program Requirements

1. Full participation is an essential part of the language learning process in this program. For this reason regular attendance is required. No more than 10% of instructional days may be missed without documented reasons that are acceptable to the Director of English as a Second Language programs. Students who fail to meet the minimum attendance requirements may not be permitted to re-enroll in the IEP in the following semester.
2. Evaluation of students may include, but not be limited to, any or all of the following: projects, assignments, quizzes, oral presentations, and class participation.

9.11.2 Intensive English Bridge Program (IEBP)

The Intensive English Bridge Program (IEBP) is intended for applicants to Memorial University of Newfoundland who have been provisionally admitted as undergraduate students and who are students in the advanced level of the Intensive English Program (IEP). It requires ten to fifteen hours of classroom language instruction in reading, writing, grammar, and listening. The emphasis is on English for Academic Purposes. Students in this program may register for an undergraduate credit course concurrently, in consultation with the Director of English as a Second Language Programs.

9.11.2.1 Admission

Students for the Intensive English Bridge Program must have:

1. been provisionally accepted to undergraduate studies at Memorial University of Newfoundland;
2. achieved an average of Band 40 in the CAEL with a Writing sub-score of at least 40, a paper-based TOEFL score of 520, a computer-based TOEFL score of 190, an iBT TOEFL score of 68, or an IELTS score of 5.5 with no sub-score less than 5; and
3. achieved a grade of "C" or better with a satisfactory attendance level (90%) in both ENGS 011F and ENGS 012F if enrolled in the Intensive English program in the previous semester.

A student may be considered as a candidate for the Intensive Bridge Program under the following conditions:

9.11.2.2 Program Requirements

1. Students admitted to the Intensive English Bridge Program must register for the course English as a Second Language 011F.
2. Students in this program may normally register for no more than one credit course, chosen in consultation with the director or coordinator of the English as a Second Language Program.
3. Students may register in the Intensive English Bridge Program for a maximum of two semesters.
4. Full participation is an essential part of the language learning process in this program. For this reason regular attendance is required. No more than 10% of instructional days may be missed without documented reasons that are acceptable to the Director of English as a Second Language programs. Students who fail to meet the minimum attendance requirements may not be permitted to re-enroll in the IEBP in the following semester.

9.12 European Studies

www.mun.ca/interdisciplinary/european/

Program Co-ordinator: Dr. E. Warkentin, Department of German and Russian

9.12.1 Minor in European Studies

The Minor in European Studies is an interdisciplinary program. It requires the completion of at least 9 credit hours at the Harlow Campus or as part of an approved exchange program with a European university. The Minor is an alternative to a Minor offered by a single department and satisfies degree requirements for a Minor. Students completing this Minor must choose a Major in a single discipline.

The objective of the program is to explore contemporary Europe through the study of its politics, society, history and culture. The program consists of a series of inter-related courses in different disciplines focussing on present-day Europe and its recent history (19th and 20th centuries), and is coordinated by a Program Co-ordinator in consultation with the Director of the Harlow Campus.

European Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, European Studies**.

9.12.2 Regulations

Students who minor in European Studies shall complete a minimum of 24 credit hours including:

1. European Studies 2000
2. History 2310
3. One of French 3650, German 2901, German 3000, German 3001, German 3005, History 3005, Russian 2900, Russian 2901, Russian 3005, Spanish 3400
4. One of European Studies 3000-3030 (Special Topics in European Studies) or 3 credit hours from the European Studies Course List below.
5. Twelve additional credit hours from the European Studies Course List below including at least 9 credit hours completed at the Harlow Campus or as part of an approved exchange program with a European university or an approved study abroad program.

No more than 12 credit hours from any one discipline shall be applied to the Minor in European Studies. Students should consult the European Studies Minor Program Co-ordinator on the availability of courses at Harlow (or in exchange programs or study abroad programs) and at the St. John's and Grenfell campuses.

9.12.3 Course List

Courses marked with an asterisk normally may be taken only after completion of at least one prerequisite at the 2000 level or beyond. Other courses, especially at the 3000 level and above, are normally taken after one or more introductory courses in the discipline are completed.

Anthropology

Anthropology *3242

Economics

Economics 3610

English

English 2001, 2007 (Grenfell Campus), 2211, 2212, *3022-097, 3710-3729 (available only as part of the Harlow Campus Semester), *4300-097, *4302-097

Folklore

Folklore 3601-097, 3613-097, 3710-3729 (available only as part of the Harlow Campus Semester)

French

French *3650

Geography

Geography 2405, 3710-3729 (available only as part of the Harlow Campus Semester), 3900-097, 3990-097

German

German 2901, 3000, 3001, 3004, 3005

History

History 2340, 3005, *3360, *3380, *3460, *3610, 3710-3729 (available only as part of the Harlow Campus Semester), 3785, 4360-4380 (available only as part of the Harlow Campus Semester)

Philosophy

Philosophy 3880, 3920, 3940

Political Science

Political Science *3300, 3305, 4250

Russian

Russian 2900, 2901, 3005, 3023

Sociology

Sociology 3710

Spanish

Spanish *3400

Visual Arts

Visual Arts *3702 (Grenfell Campus), *4701 (Grenfell Campus), *4702 (Grenfell Campus)

- Notes:
1. Students should consult the European Studies Program Co-ordinator on the applicability of special topics and other courses not listed above to the European Studies Minor program. In particular, courses taught at the Harlow Campus by other academic units and dealing with the broad themes of the program may be applicable to the Minor in European Studies. Such courses may be offered by Grenfell Campus, the Faculty of Business Administration, the Faculty of Science, the School of Music, and other faculties and schools.
 2. The suffix -097 indicates course sections offered at the Harlow Campus by various academic units.
 3. Courses in the series 3710 to 3729 indicate courses which form part of programs offered by the Faculty of Arts only at the Harlow Campus.
 4. Up to 6 credit hours in the discipline of a student's major programs may count towards the minor, but these shall be in addition to the minimum course requirements for the major.
 5. Normal prerequisites, policies on the waiver of prerequisites and credit restrictions in the respective departments will apply.

9.13 Film Studies

www.mun.ca/interdisciplinary/film/

Program Co-ordinator: Dr. J.O. Buffinga, Department of German and Russian Language and Literature

The Minor in Film Studies is an interdisciplinary program. It consists of a complement of core courses that is supported by elective courses in cognate disciplines. The objective of the program is to teach students to think historically, theoretically and analytically about film within the broad context of humanistic studies. Students completing this Minor must choose a Major in a single discipline.

9.13.1 Minor in Film Studies

Students who choose the Minor in Film Studies must complete at least 24 credit hours, including:

1. English 2850 and 2851;
2. 18 credit hours selected from the Film Studies **Course List** below ;
3. a maximum of 6 credit hours at the 1000 level; and
4. a minimum of 6 credit hours at the 3000 level or higher

Note: Not more than 3 credit hours in courses in the student's Major Program may also be used to satisfy the requirements of the minor in Film Studies.

9.13.1.1 Course List

Classics 3700
 French 3506
 German 3000
 German 3001
 German 3002
 German 3003
 History 3748

History 3790
 History 3795
 History 4695
 Philosophy 2581
 Religious Studies 1022
 Russian 3003
 Russian 3023

9.14 Folklore

www.mun.ca/folklore/about/

The discipline of Folklore is a diverse examination of informal culture. Its subjects include stories, music, dance, drama, architecture, material culture, celebrations and patterns of belief, as well as customs related to work, leisure, childhood, family, aging, individuality and community.

Folklore explores these customs as dynamic relationships between old ideas and new, individual creation and collective acceptance, local and global influences. And because folklore concerns the everyday, intimate practices of people, ethnographic field research is a vital part of its practice.

Folklore course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Folklore**.

9.14.1 General Degree

Folklore 1000 (or 2000) is recommended as an introductory course for all other courses in Folklore.

9.14.2 Major in Folklore

A student registered to major in Folklore must take a minimum of 36 credit hours in courses as follows:

1. Eighteen required credit hours: 1000 (or 2000), 2100, 2300, 2401, 2500, 4470;
2. Six credit hours from Group A - Folk Literature Genres: 3100, 3200, 3250, 3300, 3450, 3612, 3618;
3. Six credit hours from Group B - Folklife Genres: 3001, 3350, 3591, 3606, 3650, 3700, 3713, 3820, 3830, 3850, 3860, 3870, 4460;
4. Six credit hours from Group C - Topics: not more than 3 of which can be taken from courses at the 1000 level: 1050, 1060, 2230, 2700, 3350, 3360, 3460, 3591, 3601, 3613, 3618, 3700, 3714, 3800, 3900, 3910, 3920, 3930, 3940, 3950, 4015, 4100, 4300, 4310, 4320, 4350, 4360, 4370, 4400, 4410, 4420, 4440, 4480, 4810.

Students who declare a major in Folklore should have completed Folklore 1000 (or 2000); it is recommended that students intending to major in Folklore take Folklore 2100 as early in their programs as possible.

All students who major in Folklore will be assisted by a faculty advisor who will help them in planning their academic program. Consequently, it is essential that students consult with the Department at an early stage in their studies.

9.14.3 Minor in Folklore

A student declaring a minor in Folklore must take a minimum of 24 credit hours including:

1. Fifteen required credit hours: 1000 (or 2000), 2100, 2300, 2401, 2500;
2. Nine additional credit hours in Folklore - not more than 3 of which can be taken from courses at the 1000 level.

Students who declare a minor in Folklore should have completed Folklore 1000 (or 2000); it is recommended that students intending to minor in Folklore take Folklore 2100 as early in their programs as possible.

9.14.4 Honours Degree in Folklore

See **General Regulations for Honours Degree**. An Honours student in Folklore must complete a minimum of 60 credit hours, including the 36 as prescribed for the Major in Folklore. The remaining courses will normally include one of the following options:

1. Folklore 400X
2. Folklore 4998
3. Folklore 4999

9.14.5 Joint Honours Degree in Folklore and Another Major Discipline

See **General Regulations for Honours Degrees**. A minimum of 84 credit hours in the two subjects selected, with the approval of the Heads of both Departments, is required.

Of the credit hours required in the two subjects selected, not fewer than 42, and not more than 51, must come from each discipline. The student may choose the discipline in which to complete the Honours Essay or the Comprehensive Examination. If the student chooses the 400X option, the Folklore component will consist of the major in Folklore plus 400X, for a maximum of 51 credit hours in Folklore. Students are advised to choose an option as soon as possible after declaring the second subject of the Joint Honours degree.

9.15 French and Spanish

www.mun.ca/frenchandspanish/welcome/

The Department of French and Spanish offers the following programs:

1. French Major
2. French Minor
3. Honours Degree in French
4. Joint Honours in French
5. Frecker program in French Immersion
6. Canadian Third Year In Nice
7. Université de Bretagne Sud (UBS)
8. Spanish Major

9. Spanish Minor

Native speakers of French, Spanish or Italian and students with near-native fluency will not normally receive credit for courses taken at the first year level in their native language nor will they be allowed to challenge for credit at the first year level. Such students shall consult the Department to be placed at the appropriate level.

French course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, French**.

9.15.1 French Major Program

Students who choose French as their Major must complete at least 42 credit hours in French, including:

1. 2100 and 2101 OR 2159 and 2160
2. 2300
3. 2601 and 2602
4. 3100 and 3101
5. At least two of 3500, 3501, 3502, 3503, 3504 or 3506
6. At least 6 credit hours at the 4000 level

Notes: 1. *No more than 6 credit hours at the 1000 level may be used to fulfil the minimum requirements of the Major in French.*
 2. *No more than 12 transfer credit hours may be used to fulfil the minimum requirements of the Major in French.*
 3. *By the time of their graduation, all students majoring in French must have spent at least four weeks at an approved Francophone institution in a French-speaking area or have acquired equivalent work experience in a Francophone environment.*
 4. *It is strongly recommended that students in the Major program complete Classics 1120.*

9.15.2 French Minor Program

Students who choose French as their Minor must complete at least 24 credit hours in French, including:

1. 2100 and 2101 OR 2159 and 2160
2. 3100 OR 3101

Notes: 1. *No more than 6 credit hours at the 1000 level may be used to fulfil the minimum requirements of the Minor in French.*
 2. *No more than 6 transfer credit hours may be used to fulfil the minimum requirements of the Minor in French.*

9.15.3 Honours Degree in French

In addition to the following regulations students are advised to see the General Regulations for Honours Degrees.

An Honours degree in French shall consist of at least 60 credit hours in French, including:

1. 2100 and 2101 or 2159 and 2160
2. 2300
3. 2601 and 2602
4. 3100 and 3101
5. At least two of 3500, 3501, 3502, 3503, 3504 or 3506
6. A minimum of 21 credit hours at the 4000 level, including French 4900 and 4999.

Notes: 1. *Classics 1120 may be substituted for 3 credit hours in French.*
 2. *By the time of their graduation, all students completing the Honours program in French must have spent at least two semesters at an approved Francophone institution in a French-speaking area or have acquired equivalent work experience in a Francophone environment.*
 3. *No more than 24 transfer credit hours may be used to fulfil the minimum requirements of the Honours program in French.*

9.15.4 Joint Honours

French may be combined with any other subject approved in the General Regulations to form a Joint Honours program. Students will establish their program in consultation with the Heads of the Departments of their chosen Honours subjects.

The Joint Honours program in French shall include at least 51 credit hours in French, including the same requirements as the French Major with the exception of a minimum of 15 credit hours at the 4000 level.

Notes: 1. *Classics 1120 may be substituted for 3 credit hours in French beyond the first-year level.*
 2. *By the time of their graduation, all students completing the Joint Honours program in French must have spent at least two semesters at an approved Francophone institution in a French-speaking area or have acquired equivalent work experience in a Francophone environment.*
 3. *No more than 18 transfer credit hours may be used to fulfil the minimum requirements of the Joint Honours program in French.*

9.15.5 Transfer Credit for Language Courses

Students who successfully complete French or Spanish language programs offered by recognized universities and colleges in Canada and elsewhere may apply to have their courses evaluated for equivalent Memorial University of Newfoundland credit. To do so, they must follow such procedures as may be specified by the Office of the Registrar; they may also be required to sit a placement test administered by the Department of French and Spanish. The result achieved on this placement test will influence any determination of the number and level of transfer credits to be awarded.

Students intending to participate in a summer language bursary program or the Student Fellowship Programs are particularly advised to consult the Head of the Department of French and Spanish before leaving Memorial University of Newfoundland. All students intending to request transfer of credit are strongly advised to obtain a Letter of Permission from the Office of the Registrar before registering for any course of study offered by another institution.

Notes: 1. *In any event, no more than 9 transfer credit hours in either French or Spanish at the first-year level, and 18 at the second-year level, may be granted to any student.*
 2. *See specific program regulations for restrictions placed on the maximum number of transfer credit hours applicable to the Minor, Major, Honours and Joint Honours programs.*

9.15.6 Frecker Program

The Frecker Program is a one-semester immersion program offered by Memorial University of Newfoundland in St-Pierre. Students who successfully complete this program will receive 15 credit hours in French as specified in Note 3. below. All students will board with French families and will participate in extra-curricular activities designed to take full advantage of the French milieu.

Notes: 1. *The minimum prerequisites for admission to the program are successful completion of French 1502 and permission of the Head of the*

Department following written application. Admission to the program will be on a competitive basis and will depend on marks obtained in French courses at Memorial University of Newfoundland and on instructors' recommendations.

2. The cost of room and board is partially subsidized by the Federal Government Bursary Program in the case of residents of Newfoundland and Labrador. (A limited number of non-bursary students may be admitted to the program.)
3. Students who are admitted to this program will register for French 2100, 2101, 2300, 2900, and 2601 or 2602.

9.15.7 Canadian Third Year in Nice Program

Memorial University of Newfoundland is a member of a consortium of Canadian universities (with Guelph University, University of Western Ontario, University of Windsor), which offer the Canadian Third Year in Nice Program. This program enables students to spend a full academic year studying at the Université de Nice-Sophia Antipolis in the South of France. Canadian Students participating in this program are accompanied by a faculty member from one of the Canadian universities participating in the program. This person teaches two of the five courses which students complete each semester in Nice, the other three being chosen from the offerings of the Université de Nice. Specific Memorial University of Newfoundland credits are awarded for successful completion of the courses taught by the Canadian coordinator and specified and/or unspecified credits are awarded for the courses offered by the Université de Nice. All courses completed under this program will be offered outside the normal time frame for courses offered at Memorial University of Newfoundland. Fall Semester courses will be completed between October and January each year, Winter Semester courses between February and May. This follows the time frame of Sessions I and II at the Université de Nice-Sophia Antipolis.

L'université Memorial fait partie du consortium des universités canadiennes qui offre le programme Canadian Third Year in Nice (avec Guelph University, University of Western Ontario, University of Windsor). Ce programme permet à des étudiants et étudiantes de passer une année académique à l'université de Nice-Sophia Antipolis dans le sud de la France. Les étudiant/e/s et canadien/ne/s qui participent à ce programme sont encadrés par un/e professeur/e d'une des universités qui participent à ce programme. Chaque semestre, cette personne enseigne deux cours sur les cinq. Les trois autres cours sont choisis parmi les cours enseignés à l'université de Nice. Les cours de l'enseignant/e canadien/ne donneront droit à des crédits spécifiés, alors que les cours suivis avec les professeur/e/s niçois/es donneront droit à des crédits spécifiés et/ou non spécifiés. Le calendrier sera différent de celui de l'université Memorial: les cours d'automne auront lieu de septembre à janvier et ceux d'hiver de février à mai, suivant le calendrier des sessions I et II de l'université de Nice-Sophia Antipolis.

9.15.7.1 Program of Study

Session I (Fall Semester):

- 3102 French Language Studies at Nice (I)**
- 3102 Études de la langue française à Nice (I)**
- 3507 Advanced French Studies at Nice (I)**
- 3507 Études françaises à Nice (I)**

Session II (Winter Semester):

- 3103 French Language Studies at Nice (II)**
- 3103 Études de la langue française à Nice (II)**
- 3508 Advanced French Studies at Nice (II)**
- 3508 Études françaises à Nice (II)**

- Notes: 1. The above-mentioned courses are offered only at the Université de Nice-Sophia Antipolis in France. Les cours mentionnés ci-dessus ne sont offerts qu'à l'Université de Nice-Sophia Antipolis en France.
2. French 3102/3103 can be substituted for French 3100/3101 for the purposes of French program requirements and as course prerequisites. Les cours Français 3102/3103 pourront remplacer les cours Français 3100/3101 pour satisfaire aux exigences du programme de français.
3. Students should consult the Head of the Department regarding course selection. Les étudiants et étudiantes doivent consulter la direction du département concernant le choix des cours.

9.15.8 Université de Bretagne Sud (UBS)

The exchange program with the Université de Bretagne Sud (UBS) in Lorient, France, is a one semester immersion program (January to May) offered by Memorial University of Newfoundland at the third and/or fourth year level. Specified and/or unspecified Memorial University of Newfoundland credits are awarded for successful completion of the courses taken at UBS.

Le programme d'échanges avec l'université de Bretagne Sud à Lorient, France, est un programme d'immersion d'un semestre aux niveaux de la troisième et/ou de la quatrième année. Les cours suivis à l'UBS donneront droit à des crédits spécifiés et/ou non spécifiés de Memorial University of Newfoundland.

9.15.9 Italian

The Department of French and Spanish offers introductory Italian courses.

Italian course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Italian**.

9.15.10 Spanish

Spanish course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Spanish**.

9.15.10.1 Spanish Major Program

A Major in Spanish consists of a minimum of 36 credit hours in Spanish chosen from the courses listed under the **Spanish Course Descriptions**.

Note: It is strongly recommended that students in the Spanish Major Program complete Classics 1120 and 1121.

9.15.10.2 Spanish Minor Program

A Minor in Spanish consists of a minimum of 24 credit hours in Spanish from the courses listed below.

9.15.10.3 Study Abroad Programs in Spanish

The Spanish section of the Department of French and Spanish offers students the opportunity of participating in Study Abroad programs in Spanish. These programs are designed to provide an intensive immersion experience in a Spanish-speaking country each summer. On successful completion of one of these programs, students will be awarded specific credits applicable to their academic program at Memorial University of Newfoundland.

A Study Abroad program in Spanish will be offered each summer, provided that there is sufficient enrolment. All such courses will be

offered outside the normal time frame for courses offered at Memorial University of Newfoundland.

Students will be required to register for either SPAN 2010/2020 or SPAN 3010/3020 in any one program.

Students who are unsure whether they meet the prerequisites for SPAN 2010, 2020, 3010, 3020, or 6900 should consult the Co-ordinator for Spanish.

Spanish course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Spanish**.

9.16 Gender Studies

www.mun.ca/genderstudies/

Gender Studies is an academic area of study that critically examines how gender shapes our identities, our social interactions and our world. Through exposure to interdisciplinary perspectives, students develop frameworks for thinking about power relations and the ways that those relations are shaped and challenged by intersecting constructions of gender, race, class, sexuality, ability, age and nationality. Gender Studies examines everyday experiences, social and political institutions, literary and philosophical contributions, and past and present ideas and world events. The discipline provides students with tools to engage with and critically analyze these areas.

Women's Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Gender Studies**.

9.16.1 Major Program Regulations

Students declaring a Major in Gender Studies should consult the Head of the Department regarding course selection.

The Major Program in Gender Studies consists of a minimum of 39 credit hours. The following courses are required:

1. Gender Studies 1000, Gender Studies 2005, Gender Studies 3000, one of Gender Studies 3005, or Gender Studies 3025, Gender Studies 4000, and Gender Studies 4005.
2. A minimum of 21 credit hours from the Gender Studies **Electives Courses Table** outlined below, selected from at least three different subject areas.
3. One of these courses may be a selected topics or directed readings course in any subject relevant to the major program.
4. A selected topics or directed readings course included in the student's major program must be approved in advance by the Committee on Undergraduate Studies on the recommendation of the Head of the Department.

9.16.2 Minor Program Regulations

Students who minor in Gender Studies shall complete a minimum of 24 credit hours in courses which shall include the following:

1. Gender Studies 1000, Gender Studies 3000 or 3025, and Gender Studies 4000.
2. A minimum of 15 credit hours in courses from the Gender Studies **Electives Courses Table** outlined below taken in at least three different subject areas. Gender Studies courses that are not required for the Minor, but that have a Gender Studies (GNDR) designation can be counted as Minor Elective Courses in one subject area. One of these courses may be selected topics or directed
3. A selected topics course or directed readings course included in the student's minor program must be approved in advance by the Committee on Undergraduate Studies on the recommendation of the Head of the Department.
4. Not more than 3 credit hours in courses in the students major Program may be used to satisfy the requirements of the minor in Women's studies.

9.16.3 Elective Courses

Normal prerequisites and waiver policies in the respective departments will apply. Some courses may not be offered on a regular basis. Students should consult the appropriate department(s) for scheduling information.

Elective Courses Table

Anthropology 4081	Human Kinetics and Recreation (HKR) 3595
Education 3565	Law and Society 3015
English 2700	Law and Society 3200
English 3817	Linguistics 3212
English 3830	Philosophy 2805
Folklore 3950	Political Science 3140
Gender Studies 3001/Medieval Studies 3006/English 3006	Political Science 3340
Gender Studies 3002-3020 (excluding 3004, 3009)	Psychology 2540
Gender Studies 3004/Russian Studies 3004	Psychology 3126
Gender Studies 3100	Psychology 3533
German 3914	Religious Studies 2800
History 2760	Religious Studies 2801
History 3760	Religious Studies 3415
History 3770	Religious Studies 3800
History 3780	Sociology 3420
History 3813	Sociology 4092
History 3821	Sociology 4210
Human Kinetics and Recreation (HKR) 3490	Sociology 4213
	Sociology 4230

9.17 Geography

www.mun.ca/geog/about/

The following undergraduate programs are available in the Department of Geography:

1. Major in Geography (B.A. or B.Sc.)
2. Honours in Geography (B.A. or B.Sc.)
3. Minor in Geography
4. Joint Programs

5. Focus Area in Geography
6. Diploma in Geographic Information Sciences

Geography course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Geography**

9.17.1 Major in Geography (B.A. or B.Sc.)

1. Students may complete a Major in Geography as part of either a B.A. or B.Sc. program. See the **Regulations for the General Degree of Bachelor of Arts** and Regulations for the General Degree of Bachelor of Science degrees as appropriate.
2. All students who major in Geography shall consult with their assigned faculty advisor, or the Head of the Department, who will help them in planning their academic program. For this purpose, it is essential that students declare their major at an early stage of their studies.
3. The Major in Geography consists of 45 credit hours in Geography courses including:
 - a. 1050, or 1000 & 1001, or 1010 & 1011;
 - b. 2001, 2102, 2195, 2226, 2302, 2425;
 - c. 3222, 3226;
 - d. Nine credit hours from courses at the 3000-level;
 - e. At least 9 credit hours chosen from courses at the 4000-level;
 - f. Further credit hours in courses at the 3000-level or above, to fulfil the required 45 credit hours in Geography courses.
4. B.Sc. students must complete 15 credit hours in science courses outside Geography at the 2000-level or above.

9.17.2 Honours in Geography (B.A. or B.Sc.)

1. Students intending to take an Honours degree in Geography must apply for entry to the Honours program through the Office of the Registrar.
2. Students accepted in the Honours program must:
 - a. Comply with the **Regulations for the Honours Degree of Bachelor of Arts** or **Regulations for the Honours Degree of Bachelor of Science** as appropriate.
 - b. Arrange their program in consultation with the Head of the Department.
3. For the Honours Degree, a student will be required to have completed at least 60 credit hours in courses in Geography, including:
 - a. Forty-five credit hours in courses as listed under Major in Geography.
 - b. Geography 3230, 4990 and 4999.
 - c. Six additional credit hours at the 4000-level.

9.17.3 Minor in Geography

The Minor in Geography consists of 24 credit hours in Geography courses, including:

1. 1050, 2001, 2102, 2195, 2302, 2425; and 6 credit hours in electives taken from Geography courses at the 3000- or 4000- level, or
2. 1000 and 1001, or 1010 and 1011; 2001, 2102, 2195, 2302, 2425; and 3 credit hours in electives taken from Geography courses at the 3000- or 4000- level.

9.17.4 Joint Programs

Regulations for the Joint Honours in Computer Science and Geography, Joint Honours in Geography/Earth Sciences, and Joint Major in Computer Science and Geography are found under the heading **Joint Programs** in the entry for the Faculty of Science.

Students who wish to take a Joint Major or a Joint Honours in Geography and another subject must arrange their program in consultation with the heads of the Departments concerned, and comply with the General Regulations of the appropriate Faculty.

9.17.5 Focus Area in Geography - Bachelor of Education (Primary/Elementary)

The focus area in Geography is applicable only to the Bachelor of Education Primary/Elementary degree programs offered by the Faculty of Education. Please see **Focus Areas** under the Faculty of Education for program details.

9.17.6 Diploma in Geographic Information Sciences

Information regarding the Diploma Program in Geographic Information Sciences may be found under the heading Diploma Programs Offered in the Faculty of Arts.

9.18 German and Russian Language and Literature

www.mun.ca/german/about/

9.18.1 German

www.mun.ca/german/german/

German course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, German**.

9.18.1.1 General Degree

All students who did not matriculate in German will begin their study with Elementary German I (1000) or equivalent.

9.18.1.2 German Language and Literature Major Program

Students majoring in German must comply with the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)** and arrange their program in consultation with the Head of the Department. Students majoring in German may choose from three streams: literature, cultural studies, or business and commerce streams. The choice of stream will determine the courses required for a major. It is highly desirable that, during their course of study, all students majoring in German spend at least one semester of study in a German-speaking country.

Major Streams**1. Literature Stream**

Students majoring in German (Literature stream) will normally be required to complete a minimum of 36 credit hours in German including at least 24 credit hours in the following courses or their equivalents: German 1000, 1001, 2010, 2011, 3010, 3011, 3900 and 3901. Exceptional students may be extended an invitation to participate in a graduate level seminar.

Suggested Course Pattern for the Major in German (Literature Stream) Table

First-Year	Second-Year	Third-Year	Fourth-Year
GERM 1000 GERM 1001	GERM 2010 GERM 2011 Recommended: GERM 3912, 3913, or other electives	GERM 3010 GERM 3011 GERM 3900 GERM 3901 Recommended: two 3 credit hour electives	Remaining courses to complete the Major in German (Literature Stream)

2. Cultural Studies Stream

Students majoring in German (Cultural Studies stream) will normally be required to complete a minimum of 36 credit hours in German, including at least 24 credit hours in the following courses or their equivalents: German 1000, 1001, 2010, 2011, 2900, 2901, 3010, and 3011. Exceptional students may be extended an invitation to participate in a graduate level seminar.

Suggested Course Pattern for the Major in German (Cultural Studies Stream) Table

First-Year	Second-Year	Third-Year	Fourth-Year
GERM 1000 GERM 1001	GERM 2010 GERM 2011 GERM 2900 GERM 2901	GERM 3010 GERM 3011 Recommended: four 3 credit hour electives	Remaining courses to complete the Major in German (Cultural Studies Stream)

3. Business and Commerce Stream

Students majoring in German (Business and Commerce stream) will normally be required to complete a minimum of 36 credit hours in German, including at least 24 credit hours in the following courses or their equivalents: German 1002, 1003, 2010, 2011, 2012, 3010, 3011, and 3902. The student will be required to complete a period of work of not less than four weeks with a company in a German-speaking country, or with approval of the Department Head, a company that can provide the student with an environment that requires substantial work to be done in German.

Suggested Course Pattern for the Major in German (Business and Commerce Stream) Table

First-Year	Second-Year	Third-Year	Fourth-Year
GERM 1002 GERM 1003	GERM 2010 GERM 2011 GERM 2012 one 3 credit hour elective	GERM 3010 GERM 3011 GERM 3902 four 3 credit hour electives	Remaining courses to complete the Major in German (Business and Commerce Stream)

9.18.1.3 German Language and Literature Minor Program

A Minor in German will consist of a minimum of 24 credit hours. Students must obtain credit for: German 1000, 1001 (or their equivalents), 2010, 2011.

9.18.1.4 German Studies Minor Program

A Minor in German Studies is offered as a special program of an interdisciplinary nature, consisting of a minimum of 24 credit hours in courses as follows:

1. Eighteen credit hours in German, including: 1000; 1001 (or their equivalents); 2010 and 2011; 2900; 2901;
2. Six credit hours taken in either additional courses in German and/or from cognate courses offered by other departments, such as History 3370, 3380, Philosophy 3850, 3851, 3860, to be chosen through prior consultation with the Head of the Department.

Note: German 2030, 2031, 2900, 2901, 2910, 3000, 3001, 3002, 3003, 3005, 3902, 3911, 3912, 3913, 3914, 3915 and the Special Topics courses in German Studies may not be used as part of the Faculty of Arts requirements for 6 credit hours in a second language.

9.18.1.5 Honours Degree

Students wishing to take an Honours degree in German must arrange their program in consultation with the Head of the Department. They will be required to comply with the University regulations for Honours degrees, to take a minimum of 60 credit hours in German with at least a 'B' standing, and to write a comprehensive examination or present a Honours Essay in their final year. Courses in German must include the following required 27 credit hours: German 1000, 1001 (or their equivalent), 2010, 2011, 3010, 3011, 4010, 4011, and 4998 or 4999. Students reading German in a Joint Honours degree program will take a minimum of 42 credit hours in German, which must include the following 24 credit hours in courses German 1000, 1001 (or their equivalents), 2010, 2011, 3010, 3011, 3900, 3901 with at least a 'B' standing.

Suggested Course Pattern for the Honours Program Table

First-Year	Second-Year	Third-Year	Fourth-Year
GERM 1000 GERM 1001	GERM 2010 GERM 2011 GERM 2900 GERM 2901 Recommended: two 3 credit hour electives at the 2000 level or higher	GERM 3010 GERM 3011 GERM 3900 GERM 3901 Recommended: two 3 credit hour electives at the 3000 level or higher	GERM 4010 GERM 4011 GERM 4998 or 4999 two 4000 level literature courses taught in German one 3 credit hour elective

9.18.2 Russian

www.mun.ca/german/russian/

Information regarding the Russian Studies program can also be found online at www.mun.ca/german/russian/course_descriptions.php.

Russian 1000 and 1001 are prerequisites for all other Russian courses except Russian 2030, 2031, 2600, 2601, 2900, 2901, 3005, 3023 and 3910.

Russian 2600, 2601, 2900, 2901, 3023, 3005, 3023 and 3910 may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language.

Russian course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Russian**.

9.18.2.1 Russian Language and Literature Major Program

A Major in Russian consists of a minimum of 36 credit hours in Russian including Russian 2600, 2601, 2900, 2901 and 3010, as well as 6 credit hours in courses at the 4000 level.

9.18.2.2 Russian Language and Literature Minor Program

A Minor in Russian consists of a minimum of 24 credit hours in Russian including 12 credit hours in the following: Russian 1000, 1001, 2010, and 2011.

Students should note that credit for courses 2600 and 2601 will not normally count towards a Minor in Russian Language and Literature.

9.18.2.3 Russian Studies Minor

A Minor in Russian Studies is offered as a special program of an interdisciplinary nature, consisting of a minimum of 24 credit hours, namely 12 credit hours in Russian and 12 in at least two disciplines, to be chosen in consultation with the Head of Department of German and Russian from the following course offerings:

1. History 3350, History 3360, Philosophy 3890, Political Science 3020, the former Political Science 3320, Sociology 3710
2. and other such courses as may be added to the list from time to time by the Faculty of Arts Committee on Undergraduate Studies.

9.19 History

www.mun.ca/history/home/

History course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, History**.

9.19.1 General Degree

1. See the **Regulations for the General Degree of Bachelor of Arts**.
2. Any one of History 1009-1015 or the sequence History 1100* and 1101* form the introductions to the theory and practice of history. Third and fourth-year students taking History courses as electives or to satisfy General Regulations for the B.A. Degree are encouraged to enrol in the department's second-year courses. Students cannot receive credit for more than two first-year courses.
3. All students who Major in History will be assisted by a faculty advisor who will help them in planning their academic programs. It is essential that students register with the Department at an early stage of their studies.

4. Major in History

Students who undertake a Major in History must complete 36 credit hours in History, including:

- a. Three credit hours in a course beginning with the initial digit '1'. All first-year courses in History are research/writing courses.
- b. At least 12 credit hours in courses with the initial digit '2' including 3 credit hours in one of History 2200, 2210 or 2400.
- c. Students should complete at least 9 credit hours in courses with the initial digit '2' before registering in a course with the initial digit '3'. Student should pay particular attention to necessary prerequisites when scheduling courses. In addition, students should obtain advice on the appropriate courses from their faculty advisor.
- d. At least 9 credit hours in courses with the initial digit '3'. Students must complete History 3840 for which there is a prerequisite of 12 credit hours in History.
- e. Students should complete at least 3 credit hours in courses with the initial digit '3' before registering in a course with the initial digit '4'.
- f. At least 6 credit hours in courses with the initial digit '4'.
- g. Six additional credit hours in courses with an initial digit beyond '1'.
- h. The following courses may not be used to meet the requirements for a Major in History without the prior written approval of the Head: History 4480, 4800, 4821, 4822, and 4999.
- i. No more than 15 transfer credit hours in History may be used to fulfil the requirements for a Major in History.
- j. Some fourth-year courses may require completion of courses in the same topic/subject area. Such prerequisites are at the discretion of the instructor.

5. Minor in History

Students who undertake a Minor in History must complete 24 credit hours in History, including:

- a. Three credit hours in a course beginning with the initial digit '1'. All first-year courses in History are research/writing courses.
- b. At least 9 credit hours in courses with the initial digit '2'.
- c. Students should complete at least 6 credit hours in courses with the initial digit '2' before registering in a course with the initial digit '3'.
- d. At least 6 credit hours in courses with the initial digit '3'.
- e. At least 3 credit hours in courses with the initial digit '4'.
- f. No more than 9 transfer credit hours in History may be used to fulfil the requirements for a Minor in History.
- g. Three additional credit hours in courses with an initial digit beyond "1".
- h. Some fourth-year courses may require completion of courses in the same topic/subject area. Such prerequisites are at the discretion of the instructor.

6. Specialization in Maritime History

The Department of History offers a specialization in Maritime History. Recommended courses include History 2100**, History 2110, History 3680, History 3690, and 6 credit hours from History 4670-4690.

* For descriptions of History 1100 and 1101, see the separate section under Grenfell Campus.

** Grenfell Campus only.

9.19.2 Honours Degree

1. Students intending to take an Honours Degree with a Major in History must comply with the Regulations for the Honours Degree of Bachelor of Arts.
2. For consideration as entrants during the Fall semester, students must make application by 30 June; for the Winter semester, by 1 November. Applications received after 30 June will be considered for the Winter semester; applications received after 1 November will be considered for the next Fall semester. Students intending to complete an Honours degree in History will be assisted by a faculty advisor who will help them in planning their academic programs. The academic programs for Honours students must be approved by the Head or delegate.
3. Students are required to complete at least 60 credit hours in History, 45 chosen in accordance with the pattern set out in the Departmental General Degree Regulation No. 4 above. In addition, students must complete History 4800, 4821, 4822, and 4999. The minimum grades required are: (a) 70%, or an average of 75%, in the prescribed number of courses, and (b) 70% in History 4999.
4. Students electing Joint Honours are required to complete at least 51 credit hours in History, 39 chosen in accordance with the pattern set out in the Departmental General Degree Regulation No. 4 above. In addition, students must complete History 4800, 4821, and 4822, with grades prescribed in Honours Degree Regulation No. 3. If the student chooses to do the Honours Essay (4999) in History, it must be passed with a grade of 70% or better.
5. No more than 27 transfer credit hours may be included in the minimum 60 credit hours required for the Honours degree in History.

9.20 Law and Society

www.mun.ca/interdisciplinary/lawsocietymajor/

Program Co-ordinator: Dr. K. Side

The programs listed below are interdisciplinary programs intended to encourage students to examine different facets of law and its role in society. They are neither pre-law programs nor ones offering a certificate or qualification in legal studies. They will acquaint and confront students with different aspects of the history, philosophical basis, and role of law in modern society. They include both courses which deal explicitly with law (e.g. Canadian Constitutional Law, International Law, History of Law, Criminal Justice), and courses in social and political theory and the role of law and its norms in diverse settings. Law and Society 1000 and Law and Society 4000 are intended to integrate the material and provide a common focus at both the beginning and the end of the programs.

As is the case in any interdisciplinary program, it will be up to the students to ensure that they have the necessary prerequisites to complete the program. For purposes of entry into the courses offered by participating departments, heads will be asked to treat these students on the same basis as their own majors.

Law and Society course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Law and Society**.

Programs:

The interdisciplinary Major and Minor programs are offered to students for the Degree of Bachelor of Arts. These programs are offered in conjunction with a major or a minor in a single discipline. In order to be awarded a Bachelor of Arts with a Major or Minor in Law and Society, students must complete all the requirements of the Bachelor of Arts.

Students majoring or minoring in Law and Society may use the courses they complete to meet the requirements of either their Law and Society major or minor or their single-discipline major or minor but not both.

9.20.1 Major Program Regulations

Students who major in Law and Society must complete:

1. all the requirements of the Bachelor of Arts program;
2. a minimum of 36 credit hours in courses which shall include, in addition to Law and Society 1000 and Law and Society 4000, an additional 30 credit hours in at least 3 different disciplines and chosen from the **Table** below including:
 - a. 9 credits at the 1000 or 2000 level
 - b. 15 credits at the 3000 level
 - c. 6 credits at the 4000 level

Before registering for any Law and Society 4000 level course, students must complete 18 of the 36 credit hours required for the major including Law and Society 1000. In exceptional circumstances, the Co-ordinator may waive this prerequisite.

Elective Courses Approved for Inclusion in the Law and Society Major and Minor Programs Table

1000 and 2000 Level Courses	3000 Level Courses	4000 Level Courses
Anthropology 2260 Anthropology 2413 Archaeology 2492 Law and Society 2000 Philosophy 2230 Philosophy 2400 Police Studies 2000 Political Science 1000 Political Science 2600 Political Science 2800 Psychology 2150 Sociology 2100	German 3915 History 3200 Law and Society 3012 Law and Society 3013 Law and Society 3014 Law and Society 3015 Law and Society 3016 Law and Society 3200 Law and Society 3300 Law and Society 3400 Linguistics 3220 Philosophy 3400 Police Studies 3000 Political Science 3210 Political Science 3290 Political Science 3620 Political Science 3800 Political Science 3810 Political Science 3820 Political Science 3830 Sociology 3130 Sociology 3290 Sociology 3306 Sociology 3320 Sociology 3395	Business 4000 History 4810 Law and Society 4900 Law and Society 4901-4909 Political Science 4200 Political Science 4215 Political Science 4360 Political Science 4370 Sociology 4095 Sociology 4099 Sociology 4212

9.20.2 Minor Program Regulations

A Minor program in Law and Society will consist of a minimum of 24 credit hours as outlined below:

1. Law and Society 1000 and Law and Society 4000
2. 18 credit hours chosen from the **Elective Courses Approved for Inclusion in the Law and Society Major and Minor Programs Table**, with a maximum of 6 credit hours in courses from each participating department. At least 12 of the 18 credit hours must be completed in courses numbered 3000 or higher. The normal departmental prerequisites are applicable, but Department Heads may waive course prerequisites in cases where alternate preparation can be demonstrated.
Up to 6 credit hours in Special Topics courses in Law and Society may be used to fulfil the 6 of the 18 credit hour requirement of this clause.
3. Students majoring in one of the participating disciplines may not use courses counted toward their major to fulfil the Law and Society minor requirements; however, up to 6 additional credit hours from their major subject area, listed above, may be used to fulfil the requirements of the minor.

9.21 Linguistics

www.mun.ca/linguistics/home/

Linguistics course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Linguistics**.

9.21.1 General Degree

The general degree requires 12 courses, 36 credit hours.

1. Students majoring in Linguistics must complete 36 credit hours in Linguistics, which must include the five courses numbered Linguistics 1100/2100, 1103/2103, 1104/2104, 3100, 3201 plus 21 credit hours in courses chosen from Linguistics 1105/2105, 2060, 2210, 2400, 2401, 2710, 3000, 3104, 3105, 3150, 3155, 3210, 3212, 3220, 3302, 3310, 3311, 3500, 3850, 3950-3960, 4010-4091, 4100, 4110, 4150, 4151, 4201, 4202, 4210, 4301, 4310, 4350, 4400, 4403, 4420, 4421, 4500, 4700, 4750, 4751, 4752, 4753, 4754, 4900, 4901, 4950-4960. Of these 21 credit hours, 9 must be at the 4000 level.
2. Many courses formerly offered by the Department of Linguistics have been renumbered or renamed. Students who have taken Linguistics courses at Memorial University of Newfoundland may not obtain credit for renumbered or renamed courses which the student has already taken. Students should consult with an advisor in the Department of Linguistics to ensure that they are taking the appropriate courses.
3. Prerequisites may be waived in special cases by the Head of the Department.

Note: *Students intending to pursue graduate work in Linguistics should include Linguistics 3500, 4201 and at least one of 4100 and 4110 in their programs.*

9.21.2 Honours Major

The honours major requires twenty courses, 60 credit hours and the joint honours requires sixteen courses, 48 credit hours.

1. See General Regulations for the Degree of Bachelor of Arts (Honours).
2. An Honours degree in Linguistics must include 60 credit hours in Linguistics courses of which the following are required: Linguistics 1103/2103, 1104/2104, 2210, 3000, 3100, 3201, 3210, 3500, 3850, 4100 (or 4110), 4201 (or 4202), 4999, and at least one of Linguistics 4010-4091, 4150, 4210, 4500, 4700, 4950-4960. Students should choose courses in consultation with their Honours Essay supervisor, to ensure that the needs and interests of the individual candidate are met, and to take into account the availability of courses which the department is able to offer.
3. Linguistics may also be combined with another subject or subjects to constitute a Joint Honours degree. The required courses listed above for the Honours degree, except for Linguistics 4999, will also be required for any Joint Honours degree in Linguistics. A total of 48 credit hours in Linguistics, which may include Linguistics 4999, is required for Joint Honours in Linguistics. Students should consult their Department of Linguistics advisor to ensure that they select courses which complement their other Honours Subject of Specialization.

9.21.3 Minor Programs

1. The General Minor requires eight courses, 24 credit hours. The following courses are required:
 - a. Linguistics 1103/2103 and 1104/2104
 - b. Any 2 courses from the following list: Linguistics 3000, 3100, 3104, 3201, 3500, 3850
 - c. An additional 12 credit hours selected from: Linguistics 1100/2100, 1105/2105, 2060, 2210, 2400, 2401, 2710, 3000, 3100, 3104, 3105, 3150, 3155, 3201, 3210, 3212, 3220, 3302, 3310, 3311, 3500, 3850, 3950-3960, 4010-4091, 4100, 4110, 4150, 4151, 4201, 4202, 4210, 4301, 4310, 4350, 4400, 4403, 4420, 4421, 4500, 4700, 4750, 4751, 4752, 4753, 4754, 4900, 4901, 4950-4960.
2. **Focus Area in Linguistics for B.Ed. (Primary/Elementary) Students (6 courses, 18 credit hours)**
 A minimum of 18 credit hours in Linguistics is required for students who are doing a focus area in the discipline. The program is as follows:
 - a. Linguistics 1100 or 2100, 1103 or 2103, 1104 or 2104, 2210, and 6 credit hours in courses chosen from Linguistics 3000, 3100, 3104, 3105, 3150, 3155, 3201, 3210, 3212, 3500, 3850.
 - b. Students are urged to include more than the minimum number of linguistics-related courses in their program.

9.22 Mathematics and Statistics

For Departmental Regulations and Course Descriptions, see Faculty of Science section of the Calendar.

The following undergraduate programs are available in the Department of Mathematics and Statistics:

1. Applied Mathematics Honours (B.Sc. only)
2. Applied Mathematics Major (B.Sc. only)
3. Applied Mathematics and Chemistry Joint Honours (B.Sc. Only)
4. Applied Mathematics and Computer Science Joint Major (B.Sc. only)
5. Applied Mathematics and Economics Joint Major (B.Sc. only)
6. Applied Mathematics and Physics Joint Honours (B.Sc. only)
7. Applied Mathematics and Physics Joint Major (B.Sc. only)
8. Biology and Statistics Joint Honours (B.Sc. only)
9. Computer Science and Pure Mathematics Joint Honours (B.Sc. only)
10. Computer Science and Pure Mathematics Joint Major (B.Sc. only)
11. Computer Science and Statistics Joint Honours (B.Sc. only)
12. Computer Science and Statistics Joint Major (B.Sc. only)
13. Economics and Pure Mathematics Joint Major (B.Sc. only)
14. Economics and Statistics Joint Major (B.Sc. only)
15. Economics (Co-operative) and Statistics Joint Major (B.Sc. only)
16. Mathematics Minor
17. Pure Mathematics Honours
18. Pure Mathematics Major
19. Pure Mathematics and Statistics Joint Honours
20. Statistics Honours
21. Statistics Major
22. Statistics Minor

9.23 Medieval Studies

www.mun.ca/interdisciplinary/medieval/

Program Supervisor: Dr. S. McGrath, Department of Philosophy

A multi-disciplinary program in Medieval Studies is offered for students for the degree of Bachelor of Arts; it may be taken only as a second Major program in conjunction with a disciplinary Major, or as a Minor program.

The objective of the program is the integrated study through core courses of a historical and cultural period, the Middle Ages, here defined as the period between Antiquity and the Modern Age. Such an approach, coordinating the methods and subjects of several disciplines, mirrors the pluralistic and interreligious framework of the age and provides context for the study of a student's first Major.

Medieval Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Medieval Studies**.

9.23.1 Major Program

Students majoring in Medieval Studies shall discuss their program with the Program Supervisor or delegate.

Students electing Medieval Studies as their second Major shall complete a minimum of 36 credit hours in courses which shall include the following:

1. Medieval Studies 2000 and either Medieval Studies 2001 or Medieval Studies 2002
2. Six credit hours from Medieval Studies 3000, 3001, 3002, 3003, 3004, and 3006.
3. Six credit hours in courses at the 4000 level chosen from either Medieval Studies 4000-4020 or **List A**.
4. Classics 1120 and 1121.
5. An additional 12 credit hours in courses either from the **Course Descriptions** or from **List A** below, normally to include at least 6 credit hours taken in courses at the 3000 level or above. Additional courses may be chosen in consultation with the Program Supervisor.
6. No more than 6 credit hours in courses counted for a student's first major may be counted towards the Major in Medieval Studies.

9.23.2 Minor Program

Students pursuing a minor in Medieval Studies shall discuss their program with the Program Supervisor or delegate.

Students electing Medieval Studies as a Minor shall complete a minimum of 24 credit hours in courses which shall include the following:

1. Medieval Studies 2000 and either Medieval Studies 2001 or Medieval Studies 2002
2. Six credit hours from Medieval Studies 3000, 3001, 3002, 3003, 3004, and 3006.
3. Three credit hours in courses at the 4000 level chosen from either Medieval Studies 4000-4020 or **List A**.
4. An additional 9 credit hours in courses either from the **Course Descriptions** or from **List A** below, normally to include at least 3 credit hours taken in courses at the 3000 level or above. Additional courses may be chosen in consultation with the Program Supervisor.
5. No more than 3 credit hours in courses counted for a student's Major may be counted towards the Minor in Medieval Studies.

9.23.3 List A: Other Courses Approved For Inclusion in Medieval Studies Major and Minor Programs Subject to the Foregoing Regulations

Not all these courses may be offered each year; students should check with departments with regard to availability and prerequisites.

List A: Other Courses Approved For Inclusion in Medieval Studies Major and Minor Programs Subject to the Foregoing Regulations Table

2000 level courses or equivalent	3000 level courses	4000 level courses
Archaeology 2480	Classics 3150, Religious Studies 3150	Biology 4270
Classics 1120	Classics 3200	Classics 4271
Classics 1121	Classics 3300	English 4403, Linguistics 4403
Classics 1130	English 3021	English 4500
Classics 1131	English 3500	English 4501
Classics 2200	English 3501	English 4600
Classics 2300	English 3600	English 4601
English 2110	English 3700	German 4300
English 2400, Linguistics 2400	French/Linguistics 3302	German 4301
English 2600	German 3911	History 4000-4010
English 2601	History 3011-3020	History 4695
German 2900	History 3780	
German 2910	History 3270, Classics 3270, Religious Studies 3270	
History 2320 (same as MST 2001)	Linguistics 3500	
History 2330 (same as MST 2002)	Philosophy 3790	
Linguistics 2500	Religious Studies 3591	
Music 1002		
Music 2005		
Religious Studies 2130		
Russian 2900		

9.24 Newfoundland and Labrador Studies

www.mun.ca/interdisciplinary/newfoundland/

Acting Program Supervisor: Associate Dean of Arts (Undergraduate)

The Minor in Newfoundland and Labrador Studies is an interdisciplinary program. The objective of the program is the study of the society and culture of Newfoundland and Labrador through a variety of disciplinary approaches rather than the concentration upon a single discipline. This Minor program is an alternative to a Minor offered by a single department. Students completing this Minor must choose a Major in a single discipline. Since the program draws upon courses in several departments, it is administered by an interdepartmental committee. The Program Supervisor will advise students upon the selection of courses in the Minor.

9.24.1 Minor Program

1. To qualify for a Minor in Newfoundland and Labrador Studies, a student shall complete a total of 24 credit hours in courses as follows:

- a. Fifteen credit hours in courses on the following list and from at least four different Departments.

Archaeology 3850 (same as Folklore 3850), 3860 (same as Folklore 3860 and History 3860)
 Economics 2070, 3070
 Education 3571
 English 3155
 Folklore 2230, 2300, 3850 (same as Archaeology 3850) and 3860 (same as Archaeology 3860 and History 3860)
 Geography 2290, 2495
 History 3110, 3120, 3200 (same as Law and Society 3200), 3860 (same as Archaeology 3860 and Folklore 3860)
 Law and Society 3200 (same as History 3200)
 Linguistics 2210
 Music 2021, 2022, 2023 (a maximum of 3 credit hours)
 Political Science 3880 or the former Political Science 3780
 Religious Studies 3900, 3901
 the former Sociology/Archaeology 2220
 Sociology 2230 (same as Folklore 2230)

Note: *Religious Studies 3900/3901 deal with different periods and topics. Students can register in 3901 without having taken 3900.*

- b. Nine additional credit hours in courses chosen from the above list and/or from the following, including at least 3 credit hours chosen from courses at the 4000 level:

Anthropology 4280
 Folklore 4310, 4400
 French 4400 (same as Folklore 4400)

History 4230, 4231
 Linguistics 4220
 Political Science 4650 or the former Political Science 4731
 Sociology 4240

Note: *Students should consult the Program Supervisor on the applicability of special topics and other courses that have a high level of Newfoundland and/or Labrador content. The Program Supervisor can then seek permission for the inclusion of such courses in the student's minor program.*

- c. Prerequisites: Normal departmental prerequisites will be required as laid down by the various Departments.
2. Up to 6 credit hours in courses counted for a student's Major Department may count towards the Minor, but these shall be in addition to the minimum course requirements for the Major.

9.25 Philosophy

www.mun.ca/philosophy/

9.25.1 General

Philosophy courses may be taken singly as general arts electives or as part of a Minor, Major, Honours or multidisciplinary program. Normally, Philosophy 1200 is a prerequisite for all philosophy courses at the 3000 level and above, though all courses are open to any student as electives with the permission of the Head of Department. Philosophy 1000, or the former Philosophy 1600, is not required for further courses in philosophy but is of particular value to students interested in the Social Sciences and Humanities.

Philosophy course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Philosophy**.

9.25.2 Major Program

The major program in Philosophy consists of a minimum of 36 credit hours in courses chosen in accordance with the following requirements:

1. Philosophy 1200, Philosophy 2000 or 2220, Philosophy 2210, Philosophy 2230 or 3400, Philosophy 2701 or 2702
2. 3 credit hours from Philosophy 3110 to 3620 (excluding Philosophy 3400 if previously completed to fulfill the requirements in 1. above).
3. 3 credit hours from Philosophy 3730-3790
4. 3 credit hours from Philosophy 3800-3851
5. 3 credit hours from Philosophy 3860-3890
6. 3 credit hours from Philosophy 3900-3950
7. 3 credit hours from the Philosophy 4700-4790 series
8. 3 credit hours from the Philosophy 4800-4890 series

Note: *Students declaring a Major in Philosophy must choose a program advisor in consultation with the Head of the Department or Undergraduate Officer and the faculty member concerned.*

9.25.3 Minor Program

The minor program in Philosophy consists of a minimum of 24 credit hours in courses which must be chosen in accordance with the following requirements:

1. Philosophy 1200, Philosophy 2000 or 2210 or 2220, Philosophy 2230 or 3400, Philosophy 2701 or 2702
2. 3 credit hours from Philosophy 3110 to 3950 (excluding Philosophy 3400 if previously completed to fulfill the requirements in 1. above).
3. An additional 6 credit hours in Philosophy courses at the 3000-level or higher.
4. 3 credit hours from 4000-level courses

Note: *Students declaring a Minor in Philosophy may choose to have a program advisor by mutual agreement with a member of the Philosophy Department.*

9.25.4 Honours Program

The full Honours program requires a minimum of 60 credit hours in Philosophy courses; Joint Honours requires a minimum of 45 credit hours in Philosophy courses. These must include:

1. Philosophy 1200, Philosophy 2000 or 2220, Philosophy 2210, Philosophy 2230, Philosophy 3400, Philosophy 2701 or 2702
2. 3 credit hours from Philosophy 3110 to 3620 (excluding Philosophy 3400 if previously completed to fulfill the requirements in 1. above).
3. 3 credit hours from Philosophy 3730-3790
4. 3 credit hours from Philosophy 3800-3851
5. 3 credit hours from Philosophy 3860-3890
6. 3 credit hours from Philosophy 3900-3950
7. 3 credit hours from the Philosophy 4700-4790 series
8. 3 credit hours from the Philosophy 4800-4890 series
9. An additional 3 credit hours in courses at the 4000-level.
10. Either Philosophy 4998 or 4999
11. Candidates for Joint Honours must choose 4998
12. Candidates for full Honours may take 4999 only with permission of the Department.
13. Other Philosophy courses to a total of 60 credit hours for full Honours, 45 credit hours for Joint Honours.
14. Candidates for Joint Honours who elect to fulfill the honours requirement in the other discipline are not required to take the Comprehensive Examination. (See **Bachelor of Arts (Honours) Degree Regulations**.)

9.26 Police Studies

www.mun.ca/interdisciplinary/police/

Acting Program Co-ordinator: Associate Dean of Arts (Undergraduate)

This major program in Police Studies would be most beneficial for students who have completed the **Diploma in Police Studies**, for experienced police officers and for others working in a policing environment, and for those interested in any aspect of policing, corrections or law enforcement, who wish to obtain a university degree. While students who successfully complete the Diploma in Police Studies Program are guaranteed probationary employment with the Royal Newfoundland Constabulary (RNC), no such arrangement exists with regard to those students admitted to the major in Police Studies.

The major program in Police Studies is intended to promote critical thinking about social issues to those working in a policing environment.

Police Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Police Studies**.

9.26.1 Major Program

The multi-disciplinary Major in Police Studies program is offered to students completing the Degree of Bachelor of Arts (B.A.). It is offered in conjunction with a minor in a single discipline. In order to be awarded a B.A. with a Major in Police Studies, students must complete all the requirements of the B.A. as outlined under **Regulations for the General Degree of Bachelor of Arts**. Students should contact the Program Coordinator by June 1st for Fall admission and by October 1st for Winter to discuss the planning of their program.

As is the case with any multi-disciplinary program, it is the students' responsibility to ensure that they have the necessary prerequisites to complete the program. For purposes of entry into the courses offered by participating departments, departmental heads will be asked to make every effort to offer places to these students as early as possible in the registration process.

9.26.2 Major Regulations

Students who major in Police Studies shall complete a minimum of 36 credit hours in courses which shall include the following:

9.26.2.1 Core Courses

1. Police Studies 2000, Police Studies 3000, Police Studies 4000 or 4001
2. Students are required to complete an additional 27 credit hours in at least three different disciplines and chosen from the **Elective Courses** list below including:
 - a. a maximum of 6 credit hours at the 1000 level;
 - b. a maximum of 9 additional credit hours at the 2000 level;
 - c. a minimum of 9 additional credit hours at the 3000 level or above; and
 - d. a minimum of 3 additional credit hours at the 4000 level

9.26.2.2 Elective Courses

The normal departmental prerequisites are applicable, but Department Heads may waive course prerequisites in cases where alternate preparation can be demonstrated. Previous specialized police training may be approved for unspecified credits which may be applied to the elective requirements of the Major in Police Studies only. It is recommended that students interested in applying to the RNC wait to enrol and complete Police Studies 3500 as part of that program.

Courses may be selected from the following list, and/or as approved by the Program Coordinator.

Anthropology 2260, 2350, 3100, 3240

Archaeology 2492

Business 1000, 1101, 1210, 2000, 2102, 2210, 2301, 3320, 4320

Economics 3150

English 2010, 2700

Education 3255, 3620, 4240, 4260, 4420

Folklore 2230

Gender Studies 1000, 2005

History 3120, 3560, 3813

Human Kinetics and Recreation 1000, 1001, 2005, 4330

Law and Society 2000, 4000

Philosophy 2552, 2591

Police Studies 3100, 3200, 3500, 4000, 4001

Political Science 1000, 1010, 2800 (or the former 2710), Political Science 3610 (or the former 3741), Political Science 3620 (or the former 3521), Political Science 3681 (or the former 3791), Political Science 3820 (or the former 3720), Political Science 3880 (or the former 3780)

Psychology 2010, 2011, 2100, 2120, 2150, 2440, 2540, 2610, 2800, 2810, 3533, 3640

Religious Studies 1000, 2350, 2610, 3650

Social Work 1710, 2520, 3310

Sociology 2210, 2230, 2270, 3040, 3120, 3180, 3290, 3306, 3318, 3395, 3731, 4095, 4210, 4212

Statistics 2500, 2501

9.27 Political Science

www.mun.ca/posc/welcome/

The following undergraduate programs are available in the Department of Political Science:

1. **Honours in Political Science**
2. **Major in Political Science**
3. **Honours and Major in Political Science (Co-operative)**
4. **Minor in Political Science**

The Department also offers two Political Science concentrations: a concentration in **Canadian Government** and a concentration in **Global Studies**. These concentrations are applicable to all programs in Political Science other than the Minor.

Political Science course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Political Science**.

9.27.1 General Information

1. Students for an Honours, a Major or a Minor in Political Science may consult with the Head of the Department or its Undergraduate Advisor to receive advice on Political Science course selections. As part of their non-Political Science electives, Honours or Major students may consider courses with associated content offered by other departments, such as Economics, History, Philosophy, Sociology, or Women's Studies. Related university programs or certificates of interest may include Aboriginal studies, Canadian Studies, Criminology, European studies, Law and Society, Newfoundland and Labrador studies, Public Administration and Police Studies.
2. The Department's website at www.mun.ca/posc features details about upcoming course offerings, course instructors, the undergraduate (Honours, Major, Minor) and graduate (Master of Arts) programs, work internships, studying abroad opportunities, special events, frequently asked questions, and more. In the event of conflicting information, the official University Calendar and information issued by the Office of the Registrar shall take precedence.
3. Anticipated completion of an introductory course is generally recommended prior to enrolling in a corresponding course at the next level. Students following this path may opt to take courses in the same area in the same academic year (e.g., if a 2000-level course is completed in Fall then a corresponding 3000-level course may be taken in Winter). This is presented, for illustrative purposes only, in **Table 1: Recommended Course Sequencing by Student's Area of Interest**

Table 1: Recommended Course Sequencing by Student's Area of Interest

	Political Theory	International Politics	Comparative Politics	Public Policy and Administration	Canadian Politics
Overview Course	POSC 1000	POSC 1000	POSC 1000	POSC 1000	POSC 1000
Area introduction	POSC 2100	POSC 2200	POSC 2300	POSC 2600	POSC 2800
Area specialization	POSC 31xx	POSC 32xx	POSC 33xx	POSC 36xx	POSC 38xx
Advanced seminar	POSC 41xx	POSC 42xx	POSC 43xx	POSC 46xx	POSC 48xx

With the written consent of the course instructor and the Head of the Department, certain prerequisite requirements may be waived.

9.27.1.1 Course Prerequisites

1. The following prerequisite schedule applies to Political Science courses, except Co-operative work term courses.
2. All research techniques courses POSC 2010, 3010, 4010, 4011 have prerequisites specified in their descriptions.
3. 1000-level: No prerequisites. Suitable for students in all disciplines.
4. 2000-level: Except for POSC 2010, no prerequisites. Completion of POSC 1000 is generally recommended.
5. 3000-level: Except for POSC 3010, no prerequisites. Completion of a corresponding 2000-level area introduction course is generally recommended as outlined under **Table 1: Recommended Course Sequencing by Student's Area of Interest**.
6. 4000-level: Prerequisites are specified in course descriptions. Completion of at least 12 credit hours in Political Science, including 6 at the 3000-level, is generally recommended.

9.27.1.2 Previous Calendar Regulations

In accordance with **UNIVERSITY REGULATIONS - Year of Degree and Departmental Regulations - Faculty of Arts and Faculty of Science**, students for a Political Science Honours, Majors or Minor who had completed a 2000-level course or above in Political Science prior to September 2009 will normally follow the departmental regulations in effect at that time. For those students, POSC 2800 may be substituted for 2710; one of POSC 2100, 2600 or 3810 may be substituted for 2711; 3011 need not apply; and prerequisites for 4000-level courses (except POSC 4010, 4011, 4600) may be substituted with at least 12 credit hours in Political Science including at least 6 credit hours at the 3000-level. Such students may instead elect to follow the degree regulations outlined in this version of the Calendar. A student who, prior to September 2009, had completed both of POSC 1010 and 1020 but who had not yet completed a 2000-level course or above in Political Science, is exempted from the 1000 requirement. In all other cases, such as Minors and concentrations, the corresponding renumbered course will apply (e.g., POSC 2100 for 2000, 2800 for 2710).

9.27.2 Honours in Political Science

1. An Honours degree provides students with additional research and writing skills, may be required for admission to a graduate program, and may be useful preparation for law and other professional fields. Students considering the Honours program are encouraged to apply before their fourth semester and to begin considering a potential Honours research topic before their seventh semester. Admission to the program is in accordance with **UNIVERSITY REGULATIONS** and the **Regulations for the Honours Degree of Bachelor of Arts**.
2. In addition to meeting the general requirements for the degree, students for a B.A.(Hons.) in Political Science must complete at least 60 credit hours in courses offered by the Department, including:
 - a. POSC 1000;
 - b. a minimum of 15 credit hours at the 2000-level, which must include POSC 2010, 2100, 2800, and a minimum of two of POSC 2200, 2300, 2600;
 - c. a minimum of 36 credit hours at the 3000-level or above, which must include:
 - i. a minimum of 18 credit hours at the 3000-level, which must include POSC 3010, a minimum of 3 credit hours from a course numbered 32xx or 33xx, and a minimum of 3 credit hours from a course numbered 36xx or 38xx; and,
 - ii. a minimum of 15 credit hours at the 4000-level, which must include POSC 4010, 4011.

Notes: 1. No more than one of POSC 1010 or 1020 can be included among the 60 Political Science credit hours required for an Honours degree.

2. For Honours, Philosophy 3870 and 3890 may be substituted for 3000-level Political Science credit hours (31xx), and Gender Studies 4005 may be substituted for 4000-level Political Science credit hours (41xx). No other such substitutions may apply.

3. If the Honours essay topic encompasses one of Canadian Government or Global Studies, the POSC 4010 and 4011 may be applied towards the applicable Political Science concentration, subject to permission of the Head of the Department.

3. Students for an Honours degree are required to select courses as specified under **Honours in Political Science**. A possible course pattern is presented in **Table 2: Course Pattern for an Honours in Political Science**.

Table 2: Course Pattern for an Honours in Political Science (POSC)

Term	Political Science Courses (POSC)	Credit Hours
Fall Academic Term 1	POSC 1000	3
Winter Academic Term 2	POSC 2010, 2800	6
Fall & Winter Academic Terms 3 and 4	POSC 2100 and two of 2200, 2300 or 2600 One of POSC 36xx or 38xx	12
Fall & Winter Academic Terms 5 and 6	POSC 3010 and five other 3000-levels (at least one of 32xx or 33xx) One POSC course at the 4000-level	21
Fall Academic Term 7	POSC 4010 Two other POSC courses at the 4000-level	9
Winter Academic Term 8	POSC 4011 Two other POSC courses at the 3000- or 4000-levels	9

- Prior to enrolling in POSC 4010, all Honours students should review the *Guidelines Governing Honours Essays* available from the Head of the Department, and are required to follow these guidelines while enrolled in POSC 4010 and 4011.
- Students electing Joint Honours are required to complete at least 51 credit hours in Political Science, including POSC 2010, and including 42 credit hours chosen in accordance with the pattern set out in the degree regulations for a Bachelor of Arts with a **Major in Political Science**. If the student chooses to complete the Honours Essay (POSC 4010 and 4011) in Political Science, it must be passed with a grade of 70% or better.

9.27.3 Major in Political Science

- In addition to meeting the general requirements for the degree, students for a B.A. with a Major in Political Science must complete at least 42 credit hours in courses offered by the Department, including:
 - POSC 1000;
 - a minimum of 12 credit hours at the 2000-level, which must include: POSC 2100, 2800 and a minimum of two of 2200, 2300, 2600;
 - a minimum of 15 credit hours at the 3000-level, which must include: POSC 3010, a minimum of 3 credit hours from a course numbered 32xx or 33xx, and a minimum of 3 credit hours from a course numbered 36xx or 38xx; and,
 - a minimum of 9 credit hours at the 4000-level.

Notes: 1. No more than one of POSC 1010 or 1020 can be included among the 42 Political Science credit hours required for a Major.
2. POSC 2010 is a recommended choice for a Major.
3. For a Major, Philosophy 3870 and 3890 may be substituted for 3000-level Political Science credit hours (31xx), and Gender Studies 4005 may be substituted for 4000-level Political Science credit hours (41xx). No other such substitutions may apply.
- Students for a Major degree are required to select courses as specified under **Major in Political Science**. A possible course pattern is presented in **Table 3: Course Pattern for a Major in Political Science**.

Table 3: Course Pattern for a Major in Political Science (POSC)

Term	Political Science Courses (POSC)	Credit Hours
Fall Academic Term 1	POSC 1000	3
Winter Academic Term 2	POSC 2010, 2800 (POSC 2010 is a recommended choice)	6
Fall & Winter Academic Terms 3 and 4	POSC 2100 and two of 2200, 2300 or 2600 One of POSC 36xx or 38xx	12
Fall & Winter Academic Terms 5 and 6	POSC 3010 and three other 3000-levels (at least one of 32xx or 33xx)	12
Fall & Winter Academic Terms 7 and 8	Three 4000-level POSC courses	9

9.27.4 Political Science Concentrations

While meeting the requirements for a program in Political Science, other than a Minor in Political Science, students may optionally select courses in one of two formal concentrations which, if completed, will be noted on the student's transcript. A possible course pattern is presented in **Table 4: Course Pattern for Optional Political Science (POSC) Concentration**.

9.27.4.1 Concentration in Canadian Government

The concentration in Canadian Government is applicable to all programs in Political Science other than the Minor in Political Science. As part of their course selection, students opting for a Canadian Government concentration will complete a minimum of 24 credit hours in POSC courses emphasizing public policy (second digit is "6") and/or Canadian politics (second digit is "8"). These POSC x6xx and/or x8xx credit hours must include 2600 and 2800, and at least 6 credit hours at the 4000 level.

9.27.4.2 Concentration in Global Studies

The concentration in Global Studies is applicable to all programs in Political Science other than the Minor in Political Science. As part of their course selection, students opting for a Global Studies concentration will complete a minimum of 24 credit hours in POSC courses emphasizing international politics (second digit is "2") and/or comparative politics (second digit is "3"). These POSC x2xx and/or x3xx credit hours must include 2200 and 2300, and at least 6 credit hours at the 4000-level. Up to 6 credit hours from political theory POSC courses (second digit is "1") at the 31xx and/or 41xx level may be included among the 24 credit hours.

Table 4: Course Pattern for Optional Political Science (POSC) Concentration

Concentration	Courses for Political Science (POSC) Honours or Major
No Concentration	Honours: See Table 2 or Table 5 Major: See Table 3 or Table 6
Canadian Government	Follow applicable Table 2, Table 3, Table 5, or Table 6 , choosing 2600, three 36xx/38xx and three 46xx/48xx courses.
Global Studies	Follow applicable Table 2, Table 3, Table 5, or Table 6 , choosing 2200 and 2300, three 32xx/33xx and three 42xx/43xx courses. Up to two 31xx and/or 41xx courses may be included.

9.27.5 Honours and Major in Political Science (Co-operative)

The Political Science Co-operative Education Program (PSCE) is available to full-time Political Science Honours and Majors students only.

The PSCE provides an opportunity for students to obtain public policy and other relevant full-time employment experience in fields related to Political Science, particularly governmental organizations. Students will apply their academic knowledge to practical situations as they develop their research, analysis and writing skills, as well as their career interests. A commitment to ethical and professional conduct is expected of all students.

Candidates who are accepted into the PSCE must complete the normal requirements for their degree, as well as three full-time work terms. In addition to following the PSCE regulations, students must satisfy the **Bachelor of Arts General Degree Regulations**, the **Bachelor of Arts (Honours) Degree Regulations**, and the Department's requirements for the **Honours in Political Science** or the **Major in Political Science**, as applicable. Additional information about the PSCE can be found on the Department of Political Science website at www.mun.ca/posc.

9.27.5.1 Eligibility for Admission

Admission to the Political Science Co-operative Education Program is competitive and selective.

The primary criterion used in reaching decisions on applications is overall academic achievement. Students with weak academic records are unlikely to be admitted.

Application forms can be obtained from the Department. The annual deadline for application is November 15 (or the next business day). Application should be made in the Fall when a student expects to have completed a minimum of 42 credit hours, including POSC 1000 and 2800 (2010 and 2600 are strongly recommended), by the end of that semester.

Admission criteria include, but are not necessarily limited to, the following:

- students currently enrolled in the Honours in Political Science or a Major in Political Science; and
- an overall average of at least 65%, and a minimum average of 70% in Political Science courses.
- Applicants transferring from another institution must normally have completed at least one semester at Memorial University of Newfoundland before applying to the program.
- Applicants may be asked to attend an interview.

9.27.5.2 Program of Study

- In addition to the requirements below students must fulfill all requirements for either a Honours or Major in Political Science.
- Students' status in the program is assessed at the end of each semester. To be eligible to continue, students must maintain a course load of 15 credit hours in each Academic Term as indicated under **Table 5: Suggested Course Pattern for the PSCE Program (Honours)** and **Table 6: Suggested Course Pattern for the PSCE Program (Major)**, and maintain a cumulative average of at least 65% and an average of at least 70% in Political Science courses. Students who fail to maintain the required averages will be required to withdraw from the PSCE. Such students may apply for readmission in a subsequent year after re-establishing the required averages.
- Students must complete three work terms at the prescribed times as indicated under **Table 5: Suggested Course Pattern for the PSCE Program (Honours)** and **Table 6: Suggested Course Pattern for the PSCE Program (Major)**.
- Work terms normally begin after the student has completed four academic terms. Academic Term 8 must not be completed before Work Term 3. Students may elect to complete one other course during a placement, subject to the approval of the Head of Department, as long as this does not interfere with the successful completion of the work term.
- The selection of Honours Essay semesters must be discussed with the student's Essay supervisor.
- It is recommended that Honours students complete POSC 4010 (Honours Essay I) prior to enrollment in 460W.

Table 5: Suggested Course Pattern for the PSCE Program (Honours)

Term	Political Science Courses (POSC)	Credit Hours
Fall Academic Term 1	POSC 1000	3
Winter Academic Term 2	POSC 2010 POSC 2800	6
Fall Academic Term 3	POSC 2100 POSC 2600	6
Winter Academic Term 4	One of POSC 2200, 2300 One of POSC36xx or 38xx	6
Spring Work Term 1	POSC 260W	0
Fall Academic Term 5	POSC 3010 One of POSC 32xx or 33xx One other POSC course at the 3000-level	9
Winter Academic Term 6	Two 3000-level POSC courses One 4000-level POSC course	9
Fall Work Term 2	POSC 360W	0
Winter or Spring Academic Term 7	POSC 4010 Two other POSC courses at the 3000 or 4000-level	9
Winter or Spring Work Term 3	POSC 460W	3
Fall Academic Term 8	POSC 4011 Two 4000-level POSC courses	9

Table 6: Suggested Course Pattern for the PSCE Program (Major)

Term	Political Science Courses (POSC)	Credit Hours
Fall Academic Term 1	POSC 1000	3
Winter Academic Term 2	POSC 2010 POSC 2800	6
Fall Academic Term 3	POSC 2100 POSC 2600	6
Winter Academic Term 4	One of POSC 2200, 2300 One of POSC 36xx or 38xx	6
Spring Work Term 1	POSC 260W	0
Fall Academic Term 5	POSC 3010 One of POSC 32xx or 33xx	6
Winter Academic Term 6	One 3000-level POSC course	3
Fall Work Term 2	POSC 360W	0
Winter or Spring Academic Term 7	One 4000-level POSC course	3
Winter or Spring Work Term 3	POSC 460W	3
Fall Academic Term 8	Two 4000-level POSC courses	6

9.27.5.3 Preparation for Work Placements

The Program is coordinated by the Division of Co-operative Education (DCE). Information regarding the DCE can be found at www.mun.ca/coop. The DCE is responsible for counseling students; delivering professional development seminars; identifying and liaising with employers; organizing competitions for work term placements; arranging student-employer interviews and facilities; coordinating database management; administering work placements; visiting students on their work assignments; evaluating the work term in consultation with the Department; and the continuous development of employer opportunities. The Program is overseen by a designated Department faculty member, who is ordinarily the administrator of POSC 260W/360W/460W, and supervised by the Head of the Department. These academic liaisons work closely with the DCE coordinator.

- A student admitted to the co-op program gives permission to the University to provide a copy of the student's résumé, university transcript and work term evaluations to potential employers.
- The dates for starting and finishing each work term are shown in the **University Diary**. At the start of the job competition the Division of Co-operative Education will normally provide a detailed description of each available position. Work placements cannot be

guaranteed though every effort is made to ensure that appropriate employment is made available. With the express permission of the DCE, students may identify and initiate contact with a potential employer outside of the placement competition, though the designated faculty member must ultimately approve all positions. Such jobs must be confirmed by letter from the employer before the first day of the work period.

9.27.5.4 Delivery of Work Term Placements

- a. At least one work term must occur in a Fall or Winter semester. The final work term must be completed before the final academic term. Competition for placements is heaviest in the Spring semester and students are strongly recommended to complete one Spring placement outside of the St. John's area. With permission of the DCE coordinator, and in consultation with the designated faculty member, a student may complete a maximum of two work terms in consecutive semesters.
- b. During the first week of a work placement, students must provide a completed confidentiality and professional conduct agreement to the DCE coordinator.
- c. Within two weeks of starting a work term, students must submit a plan of learning objectives for that placement to the Division of Co-operative Education. The placement should normally entail 35 hours of work per week for 12 weeks for a minimum total of 420 hours. Students must maintain an attendance form that must be regularly initialed by the employer and a completed copy must be submitted with the reflective essay.
- d. Remuneration for work placements is determined by employers based on their internal wage structures. Salaries tend to increase as students progress through the program and assume more responsibility. Students must not expect any such income to make them completely self-supporting.

9.27.5.5 Evaluation of Work Term Placements

- a. The first of three components of a work term evaluation will be the preparation of a written assignment such as a briefing note and/or a cabinet paper of a topical issue relevant to the student's placement. This will be assigned and assessed by the designated faculty member who will consider it when arriving at the final grade for POSC 260W, 360W or 460W as applicable. The note is to be submitted to both the faculty member and the employer.
- b. The second evaluation component will be of a student's on-the-job performance. This will be assessed by the DCE coordinator using information gathered during the work term and input from the employer. Formal written documentation from the employer will be sought and the employer will be encouraged to provide students with an exit interview.
- c. The third evaluation component will be of a substantive reflective essay which must be submitted to the DCE coordinator on the first day of the final examination period. Reflective essays will be evaluated by the DCE coordinator. When preparing the essay the student must continue to respect the confidentiality of the employer. Late essays will not be graded unless prior permission was granted by the designated faculty member.
- d. Evaluation of the briefing note and/or cabinet paper, job performance and of the reflective essay will each result in one of the following classifications: outstanding, above expectations, satisfactory, fail. These are recorded separately on the student's transcript.
- e. Overall evaluation of the work term will result in one of the following final grades being awarded for POSC 260W, 360W or 460W as applicable, which will be noted on the student's transcript:
 - *Pass with Distinction*: Indicates outstanding performance in the briefing note and/or cabinet paper, the reflective essay and the job performance.
 - *Pass*: Indicates that performance meets expectations in the briefing note and/or cabinet paper, the reflective essay and the job performance.
 - *Fail*: Indicates failing performance in one or more of the briefing note and/or cabinet paper, the reflective essay and/or the job performance.

To be eligible for promotion from the work term and continuation in the PSCE a student must not be awarded a Fail. Students should also refer to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**. If a student fails the work term the student will be required to withdraw from the PSCE. Such a student may reapply to the program after a lapse of two semesters, at which time the student will be required to repeat the work term with satisfactory performance. A given work term may be repeated only once and only one work term may be repeated in the entire Program.

- f. A student who accepts a job placement and who subsequently withdraws from a work term without acceptable cause will be required to withdraw permanently from the PSCE. Students who drop a work term without prior approval from both the DCE coordinator and the designated faculty member, or who do not honour an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the job, will normally be awarded a grade of *Fail* for the work term in question. Permission to drop a work term does not constitute a waiver of degree requirements and students who have obtained such permission must complete an approved work term in lieu of the one dropped.
- g. A student who has already completed a work placement outside of the PSCE may, upon approval of the DCE coordinator and of the designated faculty member, receive an exemption for a maximum of one work term placement in lieu of POSC 260W or 360W. Such a student must provide documentation of completion of a comparable level of work and submit a reflective essay for evaluation by the DCE coordinator. A written evaluation of the student's on-the-job performance will be required from the employer.

9.27.6 Minor in Political Science

1. Students for a Minor in Political Science must complete at least 24 credit hours in courses offered by the Department, including:
 - a. POSC 1000;
 - b. a minimum of 6 credit hours at the 2000-level, which must include POSC 2800; and
 - c. a minimum of 12 credit hours at the 3000-level or above, which must include at least 3 credit hours at the 4000-level.

Notes: 1. No more than one of POSC 1010 or 1020 can be included among the 24 POSC credit hours required for a Minor.

2. POSC 2010 and 3010 are recommended choices for a Minor.

3. For a Minor, credit hours in another discipline may not be substituted for POSC credit hours.

2. Students for a Minor are required to select courses as specified under **Minor in Political Science**. A possible course pattern is presented in **Table 7: Course Pattern for a Minor in Political Science**.

Table 7: Course Pattern for a Minor in Political Science (POSC)

Term	Political Science Courses (POSC)	Credit Hours
Fall Academic Term 1	POSC 1000	3
Winter Academic Term 2	POSC 2800	3
Fall & Winter Academic Terms 3 and 4	POSC 2010 (POSC 2010 is a recommended choice) One of POSC 2100, 2200, 2300 or 2600	6
Fall & Winter Academic Terms 5 and 6	POSC 3010 (POSC 3010 is a recommended choice) One POSC course at the 3000-level	6
Fall & Winter Academic Terms 7 and 8	One POSC course at the 3000-level One POSC course at the 4000-level	6

9.28 Psychology

For Departmental Regulations and Course Descriptions, see Faculty of Science section of the Calendar.

The following undergraduate programs are available in the Department of Psychology:

1. Biochemistry and Psychology (Behavioural Neuroscience) Joint Honours (B.Sc. Hons. only)
2. Biochemistry (Nutrition) and Psychology (Behavioural Neuroscience) Joint Honours (B.Sc. Hons. only)
3. Biology and Psychology Joint Honours (B.Sc. Hons. only)
4. Biology and Psychology (Behavioural Neuroscience) Joint Honours (B.Sc. Hons. only)
5. Major and Honours in Behavioural Neuroscience (B.Sc. only)
6. Major and Honours in Psychology (B.A. or B.Sc.)
7. Minor in Psychology (B.A. or B.Sc.)

9.29 Religious Studies

www.mun.ca/relstudies/about/

1. Courses in Religious Studies are designed for students who wish to study religion as an academic discipline. They are open to all students on the same basis as are other courses in the Faculty of Arts. They are recommended for
 - a. students who wish to gain an understanding of the essential teachings and beliefs of one or more of the major religions;
 - b. students who are interested in careers for which a knowledge of religious thought and practice is useful; and
 - c. students who are interested in exploring this field as an area of scholarly interest and human concern.
2. Those who plan to teach religion in the schools should complete a major or minor under the degree of Bachelor of Arts or a concentration in Religious Studies under the degree of Bachelor of Education (Primary/Elementary).
3. Religious Studies 1000, 1010, 1020, 1021, 1022, 1032, and 1200 are basic courses which introduce students to the academic study of religion. Religious Studies 1040 and 1041 (Introduction to Chinese) and Religious Studies 1050 and 1051 (Introduction to Biblical Hebrew) are courses which fulfil the language requirement in the Faculty of Arts.
4. Courses at the 2000 level represent a more focussed level of study. Courses are generally of two types: the first introduces specific religious traditions, and the second introduces religious topics or issues. All courses at the 2000 level are introductory and open to any student interested in the subject.
5. Courses at the 3000 and 4000 level in Religious Studies deal with the subject matter in greater depth and assume some previous knowledge.
6. Unless otherwise specified, Religious Studies courses do not have prerequisites. Students who register in a 3000- or 4000- level course are encouraged, however, to make sure that they have adequate preparation for that course, preferably by having completed a first- or second-year course in the field.
7. Students majoring in Religious Studies should plan their program in consultation with a representative of the Department.

Religious Studies course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Religious Studies**.

9.29.1 General Degree

9.29.1.1 Major in Religious Studies

1. A minimum of 36 credit hours in courses in Religious Studies is required. Students must complete at least one course from each of the three following groups:
 - a. 2013, 2050, 2051, 2130, 2140, 2330, 2340, 3000, 3031, 3060, 3091, 3150, 3200, 3210, 3251, 3265, 3272, 3276, 3305, 3310, 3315, 3320, 3510, 3535, 3560, 3591, 3900, 3901.
 - b. 2400, 2410, 2415, 2420, 2425, 2430, 3401, 3411, 3412, 3415, 3431, 3432.
 - c. 2610, 2810, 2811, 2812, 2820, 2830, 2850, 3640, 3650, 3680, 3800, 3810, 3811, 3812, 3820, 3830, 3831, 3850, 3860.
2. At least 18 credit hours of course work must be at the 3000 level or above.
3. With the exception of the language courses (1040, 1041, 1050, 1051), no more than two 1000-level courses can be counted as credit towards a major.

9.29.1.2 Minor in Religious Studies

1. A minimum of 24 credit hours in courses in Religious Studies is required, including at least 9 credit hours in courses at the 3000 level or above.

2. With the exception of the language courses (1040, 1041, 1050, 1051), no more than two 1000-level courses can be counted as credit towards a minor.

9.29.2 Honours Degree

Students planning to do further work in Religious Studies should bear in mind that an Honours degree is the normal requirement for admission to Graduate Schools. Students intending to do an Honours Degree of Bachelor of Arts with a Major in Religious Studies must comply with the **General Regulations for Honours Degrees**, and must complete at least 60 credit hours in Religious Studies courses including Religious Studies 4998 (a comprehensive examination in the area of their specialization) or Religious Studies 4999 (Honours Essay). Honours students may also be required to do courses in a further subject area.

Students considering Honours should arrange their program at the earliest opportunity, normally before the beginning of their fifth semester at the University.

Students will normally be required to have a reading knowledge of a language basic to their area of specialization.

In each case the program of studies leading to an Honours degree will be determined in consultation with the Head of the Department of Religious Studies, or delegate, keeping in mind the needs and interests of the individual student.

Students whose area of specialization requires a knowledge of Greek must complete Classics 1130 and 1131. In such cases these courses may be substituted for 6 of the 60 credit hours required for an Honours degree in Religious Studies.

9.29.3 Joint Honours Degree in Religious Studies and Another Major Subject

The attention of students is drawn to the possibility of doing a Joint Honours program that includes Religious Studies as one of the Major subjects. Such a program may be arranged in consultation with the Head of the Department of Religious Studies and the Head of the other Department concerned.

9.30 Sociology

www.mun.ca/soc/home/

9.30.1 Programs in Sociology

The following undergraduate programs are available in the Department:

1. Major in Sociology
2. Minor in Sociology
3. Honours in Sociology

Sociology course descriptions are found at the end of the Faculty of Arts section under **Course Descriptions, Sociology**.

9.30.2 Major in Sociology

Students who undertake Sociology as their Major must complete at least 36 credit hours in Sociology, as follows:

1. Sociology 1000 (or the former 2000), Sociology 3040, Sociology 3041, Sociology 3150, Sociology 3160, and at least 6 credit hours in Sociology at the 4000 level. No more than an additional 6 credit hours in courses below the 3000-level may be counted toward the Major.
2. The remaining courses, for the minimum of 36 credit hours required for the Major, may be selected from any Sociology course at the 3000 and 4000 levels.

9.30.3 Minor in Sociology

Students who undertake Sociology as their Minor must complete at least 24 credit hours in Sociology as follows:

1. Sociology 1000 or the former 2000, Sociology 3040, 3041, 3150, at least 3 credit hours from Sociology courses at the 4000 level, and 9 credit hours in other Sociology courses.

9.30.4 Honours in Sociology

Honours students are required to complete at least 60 credit hours in courses in Sociology including all courses prescribed for the Major in Sociology, and Sociology 4995, and must meet the requirements outlined in the **Regulations for the Honours Degree of Bachelor of Arts**.

9.30.5 Admission to Honours Program

Admission to the Honours program in the Department of Sociology is competitive and selective. Students who wish to enter this program must submit an "Application for Admission to Honours Program" form to the Department.

To be accepted into the Honours program, a student must not only meet the criteria laid out in the **Regulations for the Honours Degree of Bachelor of Arts**, but must normally have obtained a cumulative average of at least 75% in 18 credit hours in courses in Sociology which must include Sociology 3040, 3041, 3150, and 3160.

10 Course Descriptions

10.1 Anthropology

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive

courses, please contact the Head of the Department.

Students should note that credit may not be obtained for an Archaeology course if, prior to 2007, the student received credit for that course when it was designated as an Anthropology course.

Anthropology courses are designated by ANTH.

1031 Introduction to Anthropology provides an overview of the field of social and cultural anthropology. Diverse case studies will be used to illustrate key anthropological concepts and methods.

CR: the former ANTH 1000 or 2000

2260 War and Aggression (same as the former Sociology/Anthropology 2260 and the former Sociology 2260) is a critical review of ethnological, psychological and sociological approaches to the understanding of violence and organized aggression.

CR: the former Sociology/Anthropology 2260, the former Sociology 2260

2280 The City (same as the former Sociology/Anthropology 2280 and the former Sociology 2280) examines varieties of urban life around the world and through history. The city as habitat and as spectacle.

CR: the former Sociology/Anthropology 2280, the former Sociology 2280

2350 Religious Institutions (same as Religious Studies 2350) is a comparative study of religious institutions and beliefs, calendrical feasts and solemnities, religious roles and hierarchies, ritual innovation and revitalization.

CR: Religious Studies 2350, the former Sociology/Anthropology 2350, the former Sociology 2350

2410 Classics in Anthropology is an examination of selected milestone monographs, ground-breaking studies for interdisciplinary specialties, and major syntheses. This course qualifies as a Research/Writing course.

2411 Anthropologists in the Field combines a firsthand introduction to ethnographic research and writing with an exploration of how anthropological understanding develops through the experiences and human relationships of anthropologists in the field. This course qualifies as a Research/Writing course.

2412 Threatened Peoples is an examination of key social and cultural factors involved in the global extinction of small-scale societies; the intrusive influences that jeopardize small-scale societies, such as disease, economic and military incursion; the role of international non-governmental agencies in aid of threatened peoples; and the role of the anthropologist in this human crisis.

2413 Culture in a Globalized World explores the way in which social, cultural, economic and political interconnections at the global level interact with local social and cultural processes.

2414 Aboriginal Peoples of North America is a survey course dealing with various indigenous peoples of North America.

CR: the former ANTH 3281

2415 Anthropology of Food explores how cultural identities, social relationships, and inequalities are linked to the production, exchange, and consumption of food. This course qualifies as a Research/Writing course.

2416 Cultural Formations explores the symbolic formations that humans create in order to give meaning to their lives. Some of the cultural formations that will be studied include specific examples from the realms of religion, play, sports, art, and commonplace material objects.

3050 Ecology and Culture reviews the co-evolution of the fields of ecology and anthropology since the late 19th century and examines the variety of contemporary perspectives on the interconnection between social and ecological systems.

3052 Anthropology and Directed Social Change - inactive course.

3053 Anthropology of Religion (same as Religious Studies 3053) is a critical evaluation of anthropological research on religion, centering on seminal thinkers and major theoretical traditions. Special attention is given to the study of belief systems, and to relationships between belief and ritual.

CR: Religious Studies 3053

3054 Play, Games and Sport is an examination of the phenomenon of play in a variety of human cultures, and in such forms of activity as religion, politics, festival, speech, performance, and artistic creation. Principal themes are the functional role of play in social relations, and the meaningful role of play in social thought.

3058 Urban Anthropology is an examination of anthropological studies of urban populations and population segments, such as ethnic groups and categories, occupations, neighbourhoods, etc.

3060 The Idea of Culture is the history of ideas, dealing with the emergence of this key anthropological concept, the meanings it has acquired, its broader implications, and major critiques of its use in the social sciences.

3061 Culture and Social Inequality examines the role of culture in mediating different forms of social inequality, exploring the idea that culture is not only a way of life but also a way of managing power among unequals, from individuals to social classes. Readings in the course concentrate on cultural techniques of social control.

3062 Anthropology in Social Policy-making - inactive course.

3063 The Politics of Ethnicity and Multiculturalism examines anthropological approaches and contributions to debates about ethnicity and multiculturalism.

3064 Anthropology and the Study of Social Problems - inactive course.

3073 Imaginary Worlds explores the anthropology of imaginary worlds, including those created through pseudo-history, on-line gaming, science fiction and fantasy literature, and film. Particular examples will be examined in terms of the ways that social stratification, gender, ethnicity, race, and cultural beliefs become constructed inside of these imaginary worlds.

3082 Banditry, Rebellion, and Social Revolution examines types of social conflict specific to different kinds of class-based society, including social banditry, primitive rebellions, and peasant revolutions. More generally, social conflict is used to explore the variety of ways that pre-industrial societies have been made part of the modern world economy.

3083 Environmental Crises examines the social, cultural, and economic forces that have contributed to rapid resource depletion and other environmental changes during the 20th century and looks at how the impacts of these changes have been experienced in different parts of the world.

3100 Dominance and Power (same as the former Sociology/Anthropology 3100 and the former Sociology 3100) is a study of dominance behaviour in human societies, surveying the range from private to public and from openly exploitative to fully legitimate power systems.

CR: the former Sociology/Anthropology 3100, the former Sociology 3100

3240 Regional Studies: Contemporary Native Peoples of Canada - inactive course.

3241 Regional Studies: The Atlantic - inactive course.

3242 European Societies - inactive course.

3249 Peoples of the Pacific - inactive course.

3254-3257 Regional Studies (same as the former Sociology/Anthropology 3254-3257 and the former Sociology 3254-3257) are interdisciplinary approaches to the study of selected regions.

CR: the former Sociology/Anthropology 3254-3257, the former Sociology 3254-3257

3260 Social and Economic Development (same as Sociology 3260 and the former Sociology/Anthropology 3260) is an examination of theories of development including a critical analysis of empirical situations to which they are applied.

CR: Sociology 3260, the former Sociology/Anthropology 3260

3280 The Arctic studies cultural, ecologic, economic and social systems in the northern circumpolar regions.

3300 Fieldwork Methods focuses on the process of anthropological fieldwork. Readings, discussions and evaluations will examine a range of issues and concepts that include observation techniques, interviewing, ethical issues, and the interpretation of data. Students will conduct original fieldwork to learn how to apply some of these skills.

CR: the former ANTH 4300

3305 The Anthropology of Gender - inactive course.

3384-3389 Regional Studies in Anthropology

3403 The Anthropology of Travel and Tourism is an exploration of the anthropological study of travel and tourism. Students will learn how to critically evaluate this global industry and consider the role that it plays in the formation of contemporary human identity.

3404 Visual Anthropology explores the use of documentary film, photography, and new digital media in anthropological fieldwork. It also teaches students how anthropologists study visual media such as television, newspapers, popular films, social networking sites, web sites, and photography collections.

3406 The Anthropology of Ritual examines a range of theoretical perspectives, case studies and individual theorists in the study of ritual.

3407 Medical Anthropology focuses on a range of issues including illness, disease and healing, sexuality and reproduction, pandemics and epidemics, medical technology and bioethics.

3408 Engaged Anthropology is a seminar course exploring debates about the potential - and potential pitfalls - of a variety of approaches to publicly engaged anthropology.

3409 War, Violence and Society provides students with a comprehensive understanding of the issues and problems entailed in the anthropological analysis of war and violence. Key topics include: the relationships between war and globalization, political violence and culture, and militarization and social memory.

3410 Classic Theory in Anthropology (same as the former ANTH 4410) follows a historical approach to understanding some of the key theoretical trends in anthropology since the inception of the discipline.

CR: the former ANTH 4410

3411 Anthropology of Foraging deals with societies heavily reliant on hunting, fishing, and gathering wild foods. Industrial and post-industrial settings in which various forms of foraging (including recycling) are the basis for some people's livelihood will also be considered.

3421-3430 Anthropological Specialties will have a topic of current interest and importance announced by the Department for each term.

3451 Ethnography of Gambling - inactive course.

3452 The Fisheries Revolution - inactive course.

3630 New Media Methods in Social Research (same as Sociology 3630 and the former Sociology/Anthropology 3630) will explore non-print means for recording social behaviour and will utilize various forms of the media as a descriptive and an analytic tool.

CR: Sociology 3630, the former Sociology/Anthropology 3630

3700 Social and Cultural Change - inactive course.

4030 Legal Anthropology explores selected themes and problems relating to the anthropology of law and legal institutions.

4070 Aboriginal Self-Governance - inactive course.

4071 Social and Cultural Aspects of Health and Illness - inactive course.

4072 Social and Cultural Aspects of Death (same as the former Sociology/Anthropology 4072 and the former Sociology 4072) covers topics which may include: symbolic meanings and values attached to death; cultural and historical variations in the management of death, e.g. treatment of the 'terminally ill', burial rites, the mourning process, and the social fate of survivors, together with the social and psychological meanings of these behaviours. Open to those without normal prerequisites by permission of the Instructor.

CR: the former Sociology/Anthropology 4072, the former Sociology 4072

4073 Studies in Underclass Life (same as the former Sociology/Anthropology 4073 and the former Sociology 4073) is a critical inquiry into the social sources of human misery and suffering that characterize life in the underclass.

CR: the former Sociology/Anthropology 4073, the former Sociology 4073

4081 Advanced Seminar in the Anthropology of Gender focuses on the critical analysis of cross-cultural research on gender roles, ideologies, and identities. Each year, particular emphasis is placed on the topics that are the current subject of extensive theoretical enquiry and debate in feminist anthropology.

PR: ANTH 3305 or permission of the instructor

4089 Language and Social Change - inactive course.

4200 Anthropology of Economic Processes explores the way in which anthropologists have studied the inter-linkages among economic, social and cultural processes. Topics covered include key concepts and debates in economic anthropology and the way in which different societies and social groups are integrated within global capitalist markets.

4201 Current Debates in the Anthropology of Ireland explores selected current debates in the anthropology of Northern Ireland and the Republic of Ireland. Seminars centre on the critical reading of recent ethnographic studies. The course considers Ireland, north and south, as a changing scene, assesses the current state of Irish ethnography and considers how the field might develop.

4202-4209 Special Areas in Anthropology is a series of individual or small group tutorials and reading courses on topics of special or current interest.

PR: Departmental permission

4280 Advanced Newfoundland Ethnography - inactive course.

4301 The Intensive Study of One Culture - inactive course.

4302 Ethnographic Life Histories - inactive course.

4412 Contemporary Theory in Anthropology is an evaluation of current approaches to culture and power through a focus on critical issues and major schools of contemporary thought influencing Anthropology in the late 20th and early 21st centuries. Emphasis is placed on major works, paradigms and individual theorists.

4415 Anthropology of Labour examines core issues and problems entailed in the anthropological analysis of work and labour in the context of the global economy.

4416 Anthropology of Slums examines social class forces producing a planet of slums, and details ways that everyday forms of violence, social injustice, and poverty take social shape in the everyday lives of slum dwellers. Among the topics covered are: social class formations, including ghettos, favelas, and shanty towns; surplus populations and disposable

peoples resulting from late capitalist globalization; and forms of resistance and struggle that arise within dispossessed populations.

4417 Anthropology of Sound examines how ethnographers do comparative research on the everyday sounds found in people's daily environments, including music and new media products.

4418 Marx and Anthropological Inquiry examines the uses of Marx's later writings, especially Capital, in current American Anthropology. The primary focus is on the agenda-setting works of Eric Wolf and David Harvey. Topics include: capital accumulation and the making of localities; primitive accumulation and class formation; uneven global development; crises of capitalism and crises of social reproduction; capitalist globalization and disposable surplus populations.

4422 The Craft of Writing Anthropological Narrative is a seminar open to senior students in any discipline, which examines in detail both the mechanics and the sensitivities necessary to produce literate analysis.

4450 Politics of Landscapes - inactive course.

4994 Honours Essay I prepares students for the Honours Essay by helping them refine their research topics, providing them with independent research and writing skills; and offering a structured context in which to conduct the preliminary stages of Honours Essay research and writing.

PR: admission to the Honours program in Anthropology

4995 Honours Essay II is required as part of the Honours program.

PR: ANTH 4994

4996 Comprehensive Examination - inactive course.

10.2 Archaeology

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Students should note that credit may not be obtained for an Archaeology course if, prior to 2007, the student received credit for that course when it was designated as an Anthropology course.

Archaeology courses are designated by ARCH.

1030 Introduction to Archaeology and Bioarchaeology is a broad overview of Archaeology and Bioarchaeology introducing the concepts of human biological and cultural evolution and the methods and techniques by which these are investigated. The course is designed to provide the basis for further study in the disciplines.

2430 Principles of Bioarchaeology investigates the human animal as we exist now and as we developed through time. Students will discover how the study of fossil remains, living and extinct primates, and the applications of the principles of genetics, adaptation and variation of human evolution help to provide an understanding of how biology and culture have interacted to produce modern humans.

PR: ARCH 1030

2450 Principles of Archaeological Science introduces the student to a broad range of scientific approaches used in archaeology. The course provides an overview of the historical development of archaeological science and a survey of the current techniques used to investigate materials recovered from archaeological contexts, including biomolecular methods, paleoethnobotany, zooarchaeology, geoarchaeology, dating techniques, remote sensing and conservation.

PR: ARCH 1030

2480 Principles of Archaeology introduces the student to a broad range of scientific approaches used in archaeology. The course provides an overview of the historical development of archaeological science and a survey of the current techniques used to investigate materials recovered from archaeological contexts, including biomolecular methods, paleoethnobotany, zooarchaeology, geoarchaeology, dating techniques, remote sensing and conservation.

PR: ARCH 1030

2481 Ancient Civilizations of the Americas is a survey course introducing the archaeology and ethnohistory of various pre-contact civilizations of North, Central and South America. Archaeological Evidence will be used to explore the rise of civilizations in the Americas and particular civilizations will be examined and compared based on ideology, economy and administration.

PR: ARCH 1030

2491 Popular Archaeology is a course on how human history is reconstructed from archaeological remains. Methods and techniques of archaeology are illustrated through discussion of archaeological research

currently in progress, both in Newfoundland and Labrador and elsewhere in the world.

UL: may not be used for credit toward a major or minor in Archaeology

2492 Forensic Archaeology is an examination of procedures and techniques used by Biological anthropologists and archaeologists to obtain data pertinent to investigations by law enforcement and medical authorities; evidence concerning the identification of human remains and the cause, time and manner of death.

UL: may not be used for credit toward a major or minor in Archaeology

2493 Archaeology on Film explores the use of archaeology as a popular backdrop to many films and documentaries. Yet, the manner in which archaeology is represented in modern film is hardly realistic, or is it? The portrayal of archaeology in popular film will be discussed in order to determine what movies convey to the public about archaeological method and theory as well as the historical stories that archaeologists investigate.

UL: may not be used for credit toward a major or minor in Archaeology

2582 Principles of Historical Archaeology (same as History 2582) will introduce students to historical archaeology, with special reference to the North Atlantic, 1000 to 1900 AD. The archaeology of specific sites will be examined in order to raise issues about theory and method. Students will be introduced to palaeography; historic maps; documentary archaeology; the survey, excavation and analysis of complex sites; material culture and subsistence studies; cultural resource management and theoretical approaches including historical anthropology, ethnohistory, world systems and consumer studies.

CR: the former ARCH 3582, Anthropology 3582, History 2582

PR: ARCH 1030

2590 Basic Research and Writing about the Archaeological Past is aimed at introductory level students who are curious about how archaeologists uncover evidence about the past. It is also designed to help students to become better researchers and writers. Readings will explore a variety of short classics in archaeology, from debates about when and where humans first evolved to recent research on the historical archaeology of Newfoundland. This course qualifies as a research writing course.

3001 Art, Architecture and Medieval Life (same as Medieval Studies 3001, History 3020, Folklore 3001) is an examination of the development of medieval art and architecture and of the ways in which they mirror various aspects of life in the Middle Ages. This course will include a discussion of art and architecture in the countryside, in the town, in the castle, in the cathedral and in the cloister.

CR: the former ARCH 3589, Anthropology 3589, Medieval Studies 3001, History 3020, Folklore 3001

PR: it is recommended but not obligatory, that students should have successfully completed one of the following courses: ARCH 2480, ARCH 2582, Folklore 1000 or 2000, History 2320, Medieval Studies 2001, History 2330/Medieval Studies 2002, or Medieval Studies 2000.

3020 What is Human? discusses how humans have long considered themselves unique. Through readings, discussions and presentations this seminar will explore exactly how distinctive humans are in their biological, behavioural, and intellectual traits and whether there is, in fact, something which sets us apart from all other creatures.

PR: ARCH 2430

3040 The Human Skeleton reflects genetic, environmental and cultural influence. This course, emphasizing identification of individual bones in the skeleton, techniques for obtaining size and shape differences in individual bones and the entire skeleton, estimation of group numbers and death rates, and diagnosis of disease and other abnormal conditions, provides a means of assessing all of these influences on past human populations.

PR: ARCH 2430

3290 Newfoundland and Labrador Prehistory is a seminar and reading course on the culture history of Newfoundland and Labrador from about 9,000 years ago until the time of European settlement. Particular attention will be paid to the interactions among the several ethnic and cultural groups upon whose history this course focuses.

PR: ARCH 1030

3291 Maritime Provinces Prehistory is cultural developments in the area which today includes the Maritime Provinces and northern Maine, from the entry of humans into the region until the time of European contact. Emphasis is placed on cultural adaptations to a changing regional environment and the evidence for intercultural contact.

PR: ARCH 1030

3500 Prehistory of Africa, Asia and Europe I examines the early stages of cultural evolution in the Old World. Topics include: earliest human origins in Africa; the dispersal of humans throughout the Old World; the appearance of modern-type humans during the last ice age.

PR: ARCH 1030

3505 Prehistory of Africa, Asia and Europe II is a survey of the more recent stages of human cultural evolution in the Old World. Topics include: complex behaviour of modern-type hunter-gatherers of the last ice age; the

domestication of plants and animals in early farming communities.

PR: ARCH 3500

3510 Prehistory of the New World is a survey of cultural development in the Americas from the entry of humans until the time of European contact. Topics include: the earliest human migrations and the dispersal of human groups throughout the New World; the development of complex hunting-gathering societies; the origins of agriculture and sedentism.

PR: ARCH 1030

3515 Prehistory of Mesoamerica (same as History 3515) discusses the Spanish explorers arriving in Mesoamerica i.e. Mexico and Guatemala of today, and how they discovered rich and complex civilizations that had developed independently of European or Asian influence. This course traces the development of Mesoamerican civilizations from their known origins to the point at which growth was terminated by Spanish intervention.

CR: History 3515

PR: ARCH 1030

3520 The Early Ethnohistory of North America's Native People - inactive.

3525 The Later Ethnohistory of North America's Native People - inactive.

3561 Ethnoarchaeology is a subfield of archaeology that uses recent ethnographic information to interpret and explain the material remains of past human behaviour. This course compares the goals and methods of ethnoarchaeologists with those of ethnographers and archaeologists. Case studies are used to illustrate the different approaches and concerns of ethnoarchaeologists working in different regions of the world.

PR: ARCH 2480, or permission of instructor

3580 Bronze Age Archaeology of the Eastern Mediterranean (same as Classics 3580) examines the archaeological evidence that underlies the current reconstruction of the Bronze Age in the eastern Mediterranean. The Bronze Age of the Aegean and the island of Cyprus is essentially prehistoric and inaccessible except through the methods of archaeology; physical dating techniques, geoarchaeology, residue studies, palaeoethnobotany, zooarchaeology, forensic anthropology, underwater archaeology and cultural resource management. Pieced together these give us a compelling picture of the cultural history, lifeways and the dynamics of cultural change during this important period. Emphasis is placed on the role of Cyprus as a physical and cultural link between peoples of the Aegean and the Near East.

CR: Classics 3580

PR: ARCH 1030 or permission of instructor

3583 Archaeological Field School Orientation is designed to familiarize students with field and laboratory techniques. Students will learn about research design and the methodologies involved in archaeological site survey and mapping. Students will be instructed in the identification of archaeological sites, completion of site inventory forms, the use of surveying instruments, and the creation of accurate site maps, using these instruments as well as the concepts associated with archaeological excavation, mapping, recording and photography. Finally, students will be given basic instruction in artifact identification, processing and cataloguing. This course is intended to be a precursor to Arch 3585 and 3586 (Archaeology Field School).

PR: ARCH 2480

3584 Historical Anthropology (same as the former Anthropology 3584 and History 3535) will explore selected issues in historical anthropology, with special reference to the Mediterranean and North Atlantic worlds. Students will read specific case studies in order to explore the theoretical issues raised by the attempt to understand historically-documented past cultures. In order to give practical examples of methodology classes will analyse primary source material. Students will be introduced to the textual analysis of myth and legal records, to the interpretation of images and to the analysis of patterns in material culture. The course will consider specific current interpretive issues, particularly the rise of individualism, the consumer revolution and the cultural construction of gender.

CR: the former Anthropology 3584, History 3535

PR: ARCH 2582 or any 2000-level History course

3585-3586 Archaeology Field School offers students practical introduction to archaeological fieldwork (3585) and laboratory techniques (3586). These courses provide instruction and experience in site mapping, sampling strategies, the recovery and conservation of archaeological materials (i.e., artifacts and ecofacts) and the cleaning, cataloguing and cultural interpretation of artifacts and features. The students will also receive an introduction to archaeological research concerning prehistoric and/or historic cultures of a selected region.

PR: ARCH 3583

3587 Archaeological Conservation is an introduction to principles and techniques for the preservation of archaeological materials, with an emphasis on conservation in the field.

PR: ARCH 2480 or ARCH 2450

3588 Arctic Archaeology is an introduction to the archaeology of the Canadian Arctic, Greenland, and Alaska, from earliest settlement to historic

interactions between Inuit and Europeans. Special emphasis is placed on the eastern Canadian Arctic, and the changing social and economic adjustments arctic peoples have made to a challenging environment.

PR: ARCH 1030

3590 Hunter-Gatherer Studies (same as the former Anthropology 3590) examines past and present hunting and gathering societies from various areas of the world, both from an ethnographic and an archaeological perspective.

CR: the former Anthropology 3590

PR: ARCH 1030 or Anthropology 1031

3591 Collections Management (same as Folklore 3591) will introduce students to the problems of collections storage with respect to environment, materials and artifact access. Students will become familiar with the materials encountered in archaeological and ethnographic collections. The storage of specific historic and prehistoric collections from Newfoundland and Labrador will be examined with the purpose of providing practical examples of methodology.

CR: Folklore 3591

PR: one of ARCH 2450, 2480 or 2582

3592 Norse Archaeology explores the influence of the Vikings on the medieval world and the place of L'Anse aux Meadows within this cultural milieu. Students will be introduced to Viking-Age archaeological and literary texts to gain knowledge of specific questions and problems concerning multicultural contact within the Viking-Age world, specifically the North Atlantic region. They will also gain an appreciation of the challenges associated with using interdisciplinary evidence as well as migration and multicultural issues in the past and present.

CR: the former ARCH 3685

PR: ARCH 1030

3593 Archaeology of Children examines emerging archaeological and bioarchaeological research on children and childhood. Topics include play, learning work, embodiment, identity, death, narrative approaches to children's lives, and the paleoanthropology of childhood.

CR: the former ARCH 3684

PR: ARCH 2480

3650 Artifacts of Colonial North America provides students with practical experience in the analytical methods used to identify, date and interpret the different types of artifacts encountered on seventeenth- and eighteenth century archaeological sites in Colonial North America. In depth discussions on manufacture, technology, form and function provide the necessary background for a better understanding of concepts relating to artifact identification, provenance, dating techniques, theoretical approaches and other current issues. Practical, hands-on exercises will help reinforce weekly topics and teach students the fundamentals required to interpret artifact assemblages from the historic period.

PR: ARCH 2480, or ARCH 2582

3651 Archaeology of Colonial North America focuses on the history and archaeology of North American colonization and covers the period of European exploration and settlement from approximately 1500 to 1700. A diverse range of topics will be discussed including: contracts and interaction with native peoples; early colonies and seasonal outposts; established settlements; war, trade and economics; the material record; the built landscape; daily life in colonial society and maritime archaeology.

CR: the former ARCH 3662, or the former Anthropology 3682

PR: ARCH 1030

3680-3689 Studies in Archaeology and Prehistory will include the consideration of current developments in methods, techniques and theory as applied to selected areas of the world.

PR: ARCH 2480 or equivalent

3710 Museums and Historic Sites (same as Folklore 3700) is an introduction to museums and historic sites, their work, and their role in societies past and present. Various types of museums and historic sites will be discussed using local, national and international examples, looking at their collections and exhibitions policies. Practical issues will also be discussed; these include museum exhibit display techniques, public programming, virtual museums, and the museum profession.

CR: Folklore 3700

PR: ARCH 2480 or ARCH 2582

3750 Archaeology of Warfare is a broad overview of archaeological research conducted at sites associated with human conflict spanning from ancient Greece to World War II. Weekly lectures will provide students with a solid background on the various means by which archaeologists study and excavate sites relating to war, conflict and subjugation. A broad range of topics will be covered including remote sensing and field survey techniques, the changing technology and tactics of war, battlefield sites, POW camps, sunken naval vessels, aviation sites, fortifications and frontier outposts.

PR: ARCH 2480 or ARCH 2582

3800 Fieldwork in Vernacular Architecture: Drawings and Photography - inactive.

3850 Material Culture (same as Folklore 3850) is an examination of various interpretive theories of objects as cultural products. Problems of defining the artifact will be discussed, as well as the strengths and limitations of using objects in historical and ethnographic research. Questions discussed include form, design, decoration, diffusion, and the role of the creator of the object. Besides, folkloristic work on material culture, a variety of interdisciplinary approaches will be considered. Emphasis will be on the material folk culture of Newfoundland and its European antecedents.

CR: Folklore 3850

3860 Vernacular Architecture (same as Folklore 3860 and History 3860) is a historical survey of vernacular architectural forms in various regions of North America, with attention to Newfoundland materials. Issues discussed include the relationship of house form and culture, the concepts of antecedents, diffusion, innovation and evolution of building forms and technologies, and the siting of buildings in the landscape. Dwelling houses, outbuildings, churches and industrial vernacular architecture will be included.

CR: Folklore 3860 and History 3860

3900 Newfoundland Vernacular Furniture (same as Folklore 3900) is an introduction to the furnishings of the Newfoundland domestic interior, involving case studies from public and private collections. The focus of the course will be on furniture, looking at both urban and outport forms. The cultural context of typical furnishings will be discussed, as well as details of furniture form and construction. While furniture will be emphasized, other objects of domestic material culture may be included; glass, ceramics, metalware and textiles.

CR: Folklore 3900

4015 Cultural Resource Management (same as Folklore 4015 and Geography 4015) is a study of cultural resource management: the definition and recognition of cultural resources, the application of policy in managing cultural resources, and the identification and consideration of contemporary issues in cultural resource management. Three hours of lecture and three hours of seminar per week.

CR: Folklore 4015 and Geography 4015

PR: ARCH 2480 or ARCH 2582

4041 Palaeopathology looks at disease, diet, genetics, accidents and maternal health factors as contributors to variations in the human skeleton. In this lecture and laboratory course these factors are diagnosed from bones, and aspects of the culture, health, economy and environment of the skeletal individuals are examined.

PR: ARCH 2430 and ARCH 3040

4043 Biomolecular Archaeology is a rapidly developing, multidisciplinary subfield of archaeology concerned with unraveling aspects of human behaviour and adaptation from ancient biomolecules preserved in artifacts and biological remains. Through lectures, directed readings and seminars this course aims to review and critically assess the many facets of biomolecular archaeology, including how biological and (geo)chemical methods can be used to address questions of diet, migration and ancestry in the past.

PR: ARCH 2430 and ARCH 2450

4050-4059 Special Projects in Bioarchaeology includes directed reading, seminars and lab analysis of various skeletal collections. Topics to be covered may include primate behaviour, forensic anthropology, stable and radiogenic isotope analysis and various aspects of human evolution.

PR: ARCH 2430 and ARCH 2450

4150 Environmental Change and Quaternary Geography (same as Geography 4150) examines methods of reconstructing Quaternary environments, effects of Quaternary environmental changes on landform, with special reference to North America, development and characteristics of glacial and nonglacial climates.

CR: Geography 4150

LH: 3

PR: 6 credit hours in Physical Geography or in Archaeology at the 3000-level, or permission of the instructor

4151 Paleoethnobotany is a combined directed readings/laboratory course on palaeoethnobotany. Palaeoethnobotany concerns the recovery and analysis of archaeological plant remains as a basis for understanding human and plant interactions in the archaeological record. This course focuses on recent palaeobotanical research in northeastern North America.

PR: ARCH 2450, ARCH 2480, or the permission of the instructor

4152 Zooarchaeology aims to introduce the student to the wide range of information that can be gleaned about past human groups from the animal remains they left behind after butchery, meals, toolmaking and other activities. Students will also gain practical experience in the identification and analysis of faunal remains.

CR: the former ARCH 4195 or the former Anthropology 4195

PR: ARCH 2450 or ARCH 2480

4153 Lithic Analysis explores the range of techniques used to study stone tools, including material and provenance identification, morphology and functional analysis, temporal and cultural typology, measurement,

illustration, experimental manufacture, use wear and breakage patterns, refitting, debitage analysis and spatial distribution.

CR: the former ARCH 4196 or the former Anthropology 4196
PR: ARCH 2450 or ARCH 2480

4160-4169 Special Projects in Archaeology are courses which may be offered from time to time as demand arises. They may involve readings, seminars and actual analysis of archaeological collections on, for example: The Neolithic of Western Asia; the Rise of Civilization in Western Asia Scandinavian Prehistory; Palaeoethnobotany; and Technology and Material Culture.

PR: one of ARCH 2450, 2480, 2481, 2582 or permission of the instructor

4170 Settlement and Subsistence Studies in Archaeology - inactive.

4171 Iroquoian Archaeology is a lecture course examining the culture developments of the Iroquoian peoples of Northeastern Canada and the USA. Using both archaeological and ethnohistoric materials, this course will outline and explain the changing social, political and economic traditions of this culture group from their origins through the early contact period.

CR: the former ARCH 4190
PR: ARCH 2480

4172 Postcolonial Archaeology critically explores the history and contemporary practice of archaeology in light of the political claims of (formerly) subjugated groups. Topics to be discussed include archaeological antecedents of a postcolonial perspective (postprocessualism, critical archaeology), political economy of archaeology, interests of indigenous and other descendant groups, repatriation, national and transnational archaeologies, and community archaeology.

CR: the former ARCH 4192 or the former Anthropology 4192
PR: ARCH 2480 or ARCH 2582

4173 Archaeology of the Body explores the possibility of a more encompassing archaeology of embodied experience, starting from archaeological work on gender and recent reconceptualizations of the body in social, cultural and feminist theory. Topics to be discussed include the notion of bodily practice, biopolitics, sexuality, hybridity, violence, identity, sensory experience, disability and aging.

CR: the former ARCH 4191 or the former Anthropology 4191
PR: ARCH 2480

4182 History of Archaeology is an intensive study of the emergence and maturation of archaeology as a discipline within the social sciences, particularly in Western Europe and North America, during the 19th and 20th centuries.

PR: ARCH 2480

4190-4199 Selected Topics in Archaeology and Prehistory is a seminar course focusing on recent theoretical and methodological developments in archaeological research.

PR: one of ARCH 2450, 2480, or 2582

4411 Theory and Method in Archaeology and Prehistory is a seminar course focusing on recent theoretical and methodological developments in archaeological research.

PR: ARCH 2480 and ARCH 4182

4500 Special Topic in Historical Archaeology is a consideration of current developments in methods, techniques, and theory in Historical Archaeology.

PR: ARCH 2582 or permission of instructor.

4994 Past Material - Advanced Research and Writing is a directed reading course and is a prerequisite for the Honours Essay in Archaeology (ARCH 4995). Readings will be chosen to complement students' specialization and to prepare them for the honours essay. Assignments will emphasize short essays and will provide students with the opportunity to improve their professional writing skills in the fields of archaeology, material culture and heritage.

PR: ARCH 2480

4995 Honours Essay is required as part of the Honours program.

PR: ARCH 4994

4996 Comprehensive Examination is an alternate option to the Honours Essay.

10.3 Arts

1250 Enhancing Academic Performance is a learning seminar in which students and faculty use discussion, reciprocal feedback and co-investigation techniques to enhance the teaching and learning process in the study of Arts subjects. For course description see General Information, Student Affairs and Services, UCC2020: Applied Cognitive and Affective Learning Strategies for Undergraduate Students.

CR: the former ARTS 1200

PR: Admission to the Enhancing Academic Performance program.

1500 An Introduction to University Writing introduces students to some of the processes, techniques and standards of university-level writing. Students

will engage in the practices of pre-writing, drafting, revising and editing. An emphasis will be placed on using writing as a learning tool and on preparing and editing texts.

PR: restricted to students with fewer than eighteen credit hours

10.4 Canadian Studies

Canadian Studies courses are designated by CNST.

4000 Interdisciplinary Seminar in Canadian Studies will expose students to the interdisciplinary approach to the study of Canada through a series of lectures and discussions conducted by members of departments represented on the Canadian Studies Major Program Co-ordinating Committee and through the preparation of formal written work which explores a specific theme from a variety of disciplinary perspectives.

CR: History 4247

PR: permission of the Supervisor of the Canadian Studies Major Program

10.5 Classics

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

In special circumstances, prerequisites may be waived with the permission of the Head of the Department.

Classics courses are designated by CLAS.

10.5.1 Greek

1130 Elementary Ancient Greek I is an introduction to the grammar and syntax of ancient Greek, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

CR: the former CLAS 130B

1131 Elementary Ancient Greek II is a continuation of the work begun in Elementary Ancient Greek I.

CR: the former CLAS 130B

PR: CLAS 1130 or its equivalent

2300 Intermediate Ancient Greek is a continuation of the grammar, syntax, reading, and composition completed in the elementary program.

PR: CLAS 1131

2302 Readings in New Testament Greek (same as Religious Studies 2302)

CR: Religious Studies 2302

3300 Advanced Ancient Greek refines the skills developed in Intermediate Greek and applies them to selected readings of Greek authors.

CR: the former CLAS 2305

PR: CLAS 2300

4300 Greek Tragedy

PR: CLAS 3300

4305 Greek Comedy

PR: CLAS 3300

4310 Greek Epic Poetry

PR: CLAS 3300

4315 Attic Orators

PR: CLAS 3300

4320 Greek Lyric Poetry

PR: CLAS 3300

4325 Greek Historians

PR: CLAS 3300

4340 Greek Philosophical Authors

PR: CLAS 3300

4355-4365 Special Topics in Greek Readings will have authors and readings selected by the Department.

PR: CLAS 3300

4370 Hellenistic Poetry

PR: CLAS 3300

4391 Special Authors

PR: CLAS 3300

4999 Honours Essay is a requirement of the Honours program.

PR: CLAS 3300

10.5.2 Greek and Roman Studies

For the following courses, no knowledge of Greek or Latin is required. Students are strongly advised to have completed at least one 1000-level or 2000-level Greek and Roman Studies course before registering in any 3000-level or higher Greek and Roman Studies course.

Although there are no formal prerequisites for any course in Greek and Roman Studies, students are encouraged to ensure that they have adequate preparation for the courses numbered above 3000 in which they intend to register.

Medieval Studies 3000 may be substituted for a Greek and Roman Studies course in both the Classics degree programs (Honours, Joint Honours and general degree) and the Greek and Roman Studies degree programs (Honours, Joint Honours and general degree).

1051 Gods in Classical Mythology is an introduction to some of the major myths of ancient Greece and Rome, with particular attention to the gods. The myths will be studied with reference to their social and historical contexts, literary and artistic representations, and modern theories of interpretation.

CR: the former CLAS 1050

1052 Heroes in Classical Mythology is an introduction to some of the major myths of ancient Greece and Rome, with particular attention to the heroes. The myths will be studied with reference to their social and historical contexts, literary and artistic representations, and modern theories of interpretation.

CR: the former CLAS 1050

1100 Introduction to Greek Civilization is a general illustrated survey of the origins and evolution of Ancient Greek Civilization. The course introduces the student to Greek social and political institutions, religion and myth, and achievements in art, philosophy, science and literature, as well as the influence of Ancient Greece on the modern world. This course may be offered as a research/writing course. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

1200 Introduction to Roman Civilization is a general illustrated survey of the origins and evolution of Ancient Rome. The course introduces the student to social, political, and legal institutions, the growth of the Roman Empire, Roman art, literature, and religions, as well as Rome's pervasive influence in the modern world. This course may be offered as a research/writing course. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2010 Greek Art and Architecture is an introduction, through illustrated lectures, to the study of the art and architecture of Ancient Greece.

2015 Roman Art and Architecture is an introduction, through illustrated lectures, to the study of the art and architecture of Ancient Rome.

2020 History of the Hellenistic World (same as History 2034) is a survey of the history of the Mediterranean world and the Near East from the death of Alexander the Great in 323 BC until the incorporation of the Kingdom of Egypt in the Roman Empire in 30 BC. Particular attention is given to the influence of the new monarchies on political, social and cultural developments in both Greek and non-Greek communities.

CR: History 2034

2025 Introduction to Ancient History (same as History 2020) is an introduction to the history of ancient city-states, kingdoms and empires, including economic, social, political and cultural developments.

CR: History 2020

2035 History of Classical Greece (same as History 2035) is a survey of Greek History from the Bronze Age to the death of Alexander the Great, with special reference to the social and political institutions of the fifth century B.C.

CR: History 2035

2041 History of the Roman Republic (same as History 2041) is a survey of Roman history from the early monarchy to the death of Julius Caesar, with special reference to the society and politics of the late Republican period.

CR: History 2041, the former CLAS 2040, the former History 2040

2042 History of the Roman Empire (same as History 2042) is a survey of Roman history from the death of Julius Caesar to the rise of Constantine, with special reference to the society and politics of the early Imperial period.

CR: History 2042, the former CLAS 2040, the former History 2040

2055 Women in the Ancient World is an examination of the role of women in ancient Mediterranean civilizations from the perspectives of social and political history and culture. Critical assessments of relevant scholarship and methodologies will be included.

2400 Literature of Ancient Greece introduces students to Greek Literature from the Archaic to the Imperial Periods. Students will study epic poetry, drama and other genres typical of these periods. Students will also be introduced to important themes, methodologies and scholarship. This course may be offered as a research/writing course. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former Classics 3110, the former English 3110

2500 Literature of Ancient Rome introduces students to Latin Literature from the Republican to the Late Antique Periods. Students will study epic poetry, drama and other genres typical of these periods. Students will also be introduced to important themes, methodologies and scholarship. This course may be offered as a research/writing course. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former English 3111, the former Classics 3111

2701 History of Ancient Philosophy (same as Philosophy 2701) is a survey of the origin and development of Western philosophy among the Greeks and Romans.

CR: Philosophy 2701

2900 Science and Technology in the Ancient World is an introduction to significant developments in ancient Greek and Roman science and technology with emphasis on interpreting the primary evidence, including written sources (in translation) and material remains, assessing the historical context, and considering the nature of advancements.

3010 Greek Religion (same as Religious Studies 3010) is a study of the role of religion in the private and public life of the Greek world.

CR: Religious Studies 3010, the former CLAS 3121, the former Religious Studies 3121

3020 Roman Religion (same as Religious Studies 3020) is a study of the role of religion in the private and public life of the Roman world.

CR: Religious Studies 3020, the former CLAS 3121, the former Religious Studies 3121

3030 Greece and Persia is a study of relations between Greece and Persia from the foundation of the Persian Empire to the death of Alexander the Great.

3040 Socrates and Athens is an introduction to and examination of Socrates within the context of Athenian political, social, cultural, intellectual, and religious life, and against the background of the fifth-century enlightenment and the sophistic movement.

3050 Augustus and Rome is a course that examines the Age of Augustus (27 B.C. to A.D. 14) which witnessed not only Rome's greatest achievements in literature and art but also the replacement of republican government by a monarchy; this course, based on original sources, examines the period through its most powerful and influential figure.

3150 Early Christian Thought: The First Five Centuries (same as Religious Studies 3150) is an advanced study of selected themes and personalities in Christian thought and literature from the second to the sixth centuries. Particular attention will be given to the controversies centring on the doctrines of the Trinity and the Person of Christ.

CR: Religious Studies 3150

3270 Christianity and the Roman Empire - inactive course.

3405 Tragic Drama in Greece and Rome is a detailed examination of the tragic dramas of ancient Greece and Rome. A selection of plays by Aeschylus, Sophocles, Euripides and Seneca will be read in English translation. Topics to be discussed include the development of ancient tragedy, its literary, performative and thematic traditions, its representation of social and historical conditions, and its influence on later tragic drama.

CR: the former Classics 2805

3410 Comic Drama in Greece and Rome is a detailed examination of the comic dramas of ancient Greece and Rome. A selection of plays by Aristophanes, Menander, Plautus and Terence will be read in English translation. Topics to be discussed include the development of ancient comedy, its literary and thematic traditions, its representation of social and historical context, and its influence on later comic drama.

CR: the former Classics 2810

3415 Epic Poetry in Greece and Rome offers a detailed and in-depth study of the epic poetry of ancient Greece and Rome. The course will examine the poems of Homer, Apollonius of Rhodes and Virgil in English translation. Instructors may include additional poems. Topics to be discussed include the development of epic poetry, its literary traditions and its role in Greek and Roman society.

CR: the former Classics 2060

3420 Lyric Poetry in Greece and Rome is a study of Greek and Roman poetry often conventionally termed 'lyric', including such genres as choral and solo songs, elegy, epigram, love poetry, and others. A selection of important works from Archaic Greece to Augustan Rome will be studied with

reference to their social and literary contexts.

3500-3510 Special Topics in Classics will have topics determined by the Department.

3580 Bronze Age Archaeology of the Eastern Mediterranean - inactive course.

3600 Ancient Myth and Cult (same as Religious Studies 3600) develops the students' knowledge of myth and material culture by examining specific religious sites in the Greek and Roman world as foci of ritual practice. Students will learn to integrate knowledge of the physical remains with the literary and ritual evidence in order to obtain a more integrated understanding of religious life in ancient Greece and Rome.
CR: Religious Studies 3600

3700 The Ancient World in Film examines the representation of the history and cultures of the ancient world in film. A selection of films will be studied and extensive reference will be made to the ancient evidence which informs them. The ancient world's impact on modern Western society will be considered together with the film industry's recasting of the ancient world in response to modern social and historical developments.

3710-3729 Special Topics in Classics is available only as part of the part of the Harlow Campus Semester.

3900 Greek and Roman Medicine examines the medical theories and practices of the ancient Greek and Roman world by taking account of ancient texts (in translation) as well as evidence from material culture, including art and architecture. Topics may include the relationship between science and medicine, concepts of health and illness, the role of the healer, practical applications, gender differentiation of patients, and legacy of ancient practices.

4000 Seminar in Greek History and Society - inactive course.

4010 Seminar in Roman History and Society is a seminar in Roman History and Society.

4020 Seminar in Greek Literature and Culture is a seminar in Greek Literature and Culture.

4030 Seminar in Roman Literature and Culture is a seminar in Roman Literature and Culture.

4100-4109 Special Topics in Greek and Roman Studies will have topics announced by the Department and may include field studies in topography, Greek and Roman art and architecture, archaeology, and related areas, to be held in the Mediterranean and other regions of Graeco-Roman influence.
PR: permission of the instructor and the Head of the Department

4999 Honours Essay is a requirement of the Honours program.

10.5.3 Latin

1120 Elementary Latin I is an introduction to the grammar and syntax of Latin, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.
CR: the former CLAS 120A

1121 Elementary Latin II is a continuation of the work begun in Elementary Latin I.
CR: the former CLAS 120B
PR: CLAS 1120 or its equivalent

2200 Intermediate Latin is a continuation of the grammar, syntax, reading, and composition completed in the elementary program.
PR: CLAS 1121

3200 Advanced Latin refines the skills developed in Intermediate Latin, and applies them to selected readings of Latin authors.
CR: the former CLAS 2205
PR: CLAS 2200

4202 Medieval Latin (same as Medieval Studies 4021)
CR: Medieval Studies 4021
PR: CLAS 3200

4205 Latin Lyric Poetry
PR: CLAS 3200

4210 Latin Historians
PR: CLAS 3200

4215 Latin Orators
PR: CLAS 3200

4220 Latin Hexameter Poetry
PR: CLAS 3200

4225 Latin Epitaphography
PR: CLAS 3200

4235 Latin Philosophical Authors
PR: CLAS 3200

4240 Latin Drama
PR: CLAS 3200

4245 Latin Elegiac Poetry
PR: CLAS 3200

4250 Latin Satire
PR: CLAS 3200

4265-4275 Special Topics in Latin Readings will have authors and readings selected by the Department.
PR: CLAS 3200

4291 Special Authors
PR: CLAS 3200

4999 Honours Essay is a requirement of the Honours program.
PR: CLAS 3200

10.6 Communication Studies

Communication Studies courses are designated by CMST.

2000 Critical Approaches to Popular Culture considers critical issues and approaches in the study of popular culture. It will explore the ways in which everyone is both a user of and is used by popular culture. A variety of critical approaches to studying popular culture will be examined: Production, Texts, Audience, and History.

2001 Introduction to Communication Theory provides an introduction to theoretical approaches to organization, use and manipulation of language, including semiotics, performativity, mass and group communications, sociolinguistics and interpersonal communication. We will examine notions of influence, rhetoric, social judgment, deception, subject formation, globalization and cultural hybridity within the field of communications.
PR: CMST 2000

4000 Advanced Communications Theory engages communication theories, such as interpersonal, organizational, intercultural, or international communication, seeking to understand how and why mediated communication works have found their explanatory power to be useful. The course will aim to analyze various communication theories, apply communication theories to everyday life, write a theoretical literature review, and form sound hypotheses or focused research questions to advance theory.

PR: CMST 2000 and 2001 and 9 additional credit hours chosen from Program and Regulations, Elective Courses, List A or B

10.7 Economics

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Economics courses are designated by ECON.

2010 Introduction to Microeconomics I examines scarcity and opportunity cost. Demand and supply. Elasticity. Household demand: marginal utility. Household demand: indifference curves. Production functions. Short-run and long-run cost functions. Perfect competition in the short run and the long run. Monopoly.

2015 Introduction to Microeconomics II - inactive course.

2020 Introduction to Macroeconomics covers national income accounting, aggregate income analysis, money, banking and foreign trade.

2070 The Structure and Problems of the Newfoundland Economy - inactive course.

2550 Economic Statistics and Data Analysis is an analysis of economic statistics and the use of economic data. A course designed to introduce students to the task of economic data collection, description and analysis. Emphasis will be on interpretation and analysis of data using computer software programs.
PR: ECON 2010, 2020, and Statistics 2500 or equivalent

3000 Intermediate Macro Theory I is the basic microeconomic theory course; consumer demand, indifference curve analysis, theory of production and cost, factor substitution, and the theory of the firm under perfect competition and monopoly.
PR: ECON 2010 and 2020

3001 Intermediate Micro Theory II is a continuation of basic

microeconomic theory; the theory of imperfect competition, theory of factor pricing under various market structures, general equilibrium and welfare economics.

PR: ECON 2010, 2020, and 3000

3010 Intermediate Macro Theory I is aggregate analysis including consumer, investment, government and international sectors, the role of money, determinants of aggregate supply, and the effects of autonomous behavioural changes and fiscal and monetary policies on unemployment, price levels and the balance of payments.

3011 Intermediate Macro Theory II is a consideration of modern theories of macroeconomics, dynamics, empirical evidence and simulation of the national economy. Emphasis on the availability and effectiveness of government policy instruments.

PR: ECON 2010, 2020, and 3010

3030 International Economics - Issues and Problems in a Canadian Context is an intermediate course in international economics. The course covers the theory of comparative advantage, the structure and policy issues of the Canadian balance of payments, the foreign exchange market and the institutional aspects of international commerce.

PR: ECON 2010 and 2020

3070 The Structure and Problems of the Newfoundland Economy is an analysis of the structure of the economy of Newfoundland. Basic economic theory will be applied to current economic issues and problems in Newfoundland.

PR: ECON 2010 and 2020

3080 Natural Resource and Environmental Economics is application of economic analysis to renewable and nonrenewable natural resource industries such as the fishery, forestry, and mining. Emphasis is given to the criteria for optimal resource use under various market structures and their implications for public policy. Issues of environmental resource management and pollution control will also be covered.

PR: ECON 2010 and 2020

3140 Economic Analysis in Health Care evaluates the role of economic analysis to health and medical care. Topics in the application of cost effectiveness analysis [and cost-benefit analysis] to health care programs, as well as comparisons of the Canadian experience with other health care systems will be discussed.

PR: ECON 2010 and 2020

3150 Money and Banking examines the operation of the money and banking system, with special emphasis on Canadian problems. Monetary theory will be treated in relation to income theory and foreign trade.

PR: ECON 2010 and 2020

3360 Labour Market Economics is an intermediate course concentrating on Canadian labour issues. The course investigates the labour market decisions that workers face and the influence of government decisions. Course topics also include factors affecting a firm's demand for labour, wage determination in non-union market, the role of unions, the various structure of wages and wage differentials in the Canadian setting.

CR: the former ECON 4360

PR: ECON 2010 and 2020

3550 Mathematical Economics I examines linear algebra and differential calculus, with applications to economics.

PR: ECON 2010, 2020, and Mathematics 1000 or equivalent with a "B" standing, or Mathematics 2050

3551 Mathematical Economics II covers integral calculus, difference and differential equations, with applications to Economics.

PR: ECON 2010, 2020, and 3550

3600 Industrial Revolutions of the 18th and 19th Centuries - inactive course.

3610 International Economic History of the 19th and 20th Centuries - inactive course.

3620 Canadian Economic History to the End of the 19th Century - inactive course.

3630 Canadian Economic History in the 20th Century - inactive course.

3711 Intergovernmental Relations is (I.) federal-provincial-municipal fiscal relations in Canada; intergovernmental tax agreements and equalization payments. (II.) Co-operative federalism: shared-cost programs and opt-out arrangements. (III.) Intergovernmental bargaining in the following issue areas: tax reform; administration of justice; welfare policy; post-secondary education.

CR: the former Political Science 3711

PR: ECON 2010 and 2020

4000 Advanced Microeconomic Analysis is an advanced treatment of theoretical and applied microeconomic theory, including topics such as intertemporal choice, risk and information, game theory and competitive

strategy, index numbers, public goods, externalities, input-output analysis, linear programming, duality theory and empirical microeconomic studies.

PR: ECON 2010, 2020, and 3001

4010 Economics of Development in Less Developed Countries - inactive course.

4011 Economic Planning and Development - inactive course.

4025 Public Expenditure is an analysis of the theory of public expenditure. Relationship to resource allocation and distribution of income. Market failure and the rationale for government intervention. Theory of public goods. Public choice mechanisms. Expenditure patterns in Canada. Public sector budgeting. Public enterprise pricing and investment rules. Introduction to cost-benefit analysis.

CR: the former ECON 4020

PR: ECON 2010 and 2020

4026 Taxation is an analysis of the theory of taxation. Relationship to resource allocation and distribution of income. Incentive effects of taxation. Tax incidence. Tax structure in Canada at federal, provincial and local levels.

CR: the former ECON 4020

PR: ECON 2010 and 2020

4030 International Trade is pure theory of trade, commercial policy, price discrimination and cartels; commercial policy for developing countries and the customs union.

PR: ECON 2010 and 2020

4031 International Monetary Problems is an advanced course in open economy macroeconomics covering balance of payments adjustment under fixed and flexible exchange rates; exchange rate movements and capital movements; the international monetary system; interdependence in the world economy.

PR: ECON 2010 and 2020

4040 Economics of Education - inactive course.

4050 Inflation: Theory and Policy - inactive course.

4061 Development of Economic Thought I is Adam Smith to Karl Marx. A study in the development of Classical Economics with emphasis on the contributions of Smith, Malthus, Ricardo, Mill and Marx.

PR: ECON 2010 and 2020

4070 Forestry Economics - inactive course.

4080 Advanced Fisheries Economics - inactive course.

4085 Advanced Environmental Economics is an advanced treatment of the environmental consequences of economic activities and the associated policy issues.

PR: ECON 2010 and 2020

4090 Mineral and Petroleum Economics is an introduction to some of the theoretical economic problems and practical solutions involved in the exploration, development and production phases of mineral and petroleum mining in Newfoundland and Labrador.

PR: ECON 2010 and 2020

4100 Industrial Organization and Public Policy - inactive course.

4120 Applied Welfare Economics and Cost Benefit Analysis investigates some current criteria of welfare theory found in the literature and then outlines the principles used in measuring changes in consumer and producer welfare. The theory of cost benefit analysis is examined and then the principles are applied to a variety of projects, some of which are proposed to take place in Newfoundland and Labrador.

PR: ECON 2010 and 2020

4140 Health Economics - inactive course.

4150 Monetary Theory examines empirical studies in money. Readings in current literature. Monetary theory with applications to problems of employment and foreign trade.

PR: ECON 2010 and 2020

4361 Labour Market Theory and Income Distribution - inactive course.

4550 Econometrics I covers estimation of the general linear regression model with emphasis on fundamental theory and examples from published empirical research.

PR: ECON 2010 and 2020

4551 Econometrics II covers further problems in econometric theory and technique: multicollinearity, autocorrelation, nonlinear estimation, and the identification and estimation of systems of equations. Published empirical research will be discussed and each student will be expected to perform an original empirical study.

PR: ECON 2010, 2020, and 4550

4999 Honours Essay is required as part of the Honours program.
PR: ECON 2010, 2020 and admission to the Honours program.

10.7.1 Work Terms

The following Work Terms are a requirement of the Bachelor of Arts and Bachelor of Science Co-operative Education Option only.

299W Work Term I follows the successful completion of Academic Term 2. For most students, it represents their first work experience in a professional environment and as such represents their first opportunity to evaluate their choice of pursuing a career in Economics. Students are expected to learn, develop and practice the high standards of behaviour and performance normally expected in the work environment. (A detailed description of each job is normally posted during the job competition.)

As one component of the Work Term, the student is required to complete a work report. The work report, as a minimum requirement should

1. analyse an issue/problem related to the student's work environment.
2. demonstrate an understanding of the structure of a professional report, and show reasonable competence in written communication and presentation skills. (Students should consult the evaluation form provided in the placement package.)

Late reports will not be graded unless prior permission for a late report has been given by the co-ordinator.

Seminars on professional development, conducted by the Co-operative Education Services Centre (CESC), are presented during Academic Term 2 to introduce and prepare the student for participation in the subsequent work terms. Topics may include, among others, work term evaluation, work report writing, career planning employment seeking skills, resume preparation, selfemployment, ethics and professional concepts, behavioural requirements in the work place, assertiveness in the work place and industrial safety.

CH: 0

LC: 0

PR: Admission to the Co-operative Education Option of the Bachelor of Arts or Bachelor of Science degree programs and successful completion of Academic Term 2.

399W Work Term II follows the successful completion of Academic Term 4. Students are expected to further develop and expand their knowledge and work-related skills and should be able to accept increased responsibility and challenge. In addition, students are expected to demonstrate an ability to deal with increasingly complex work-related concepts and problems. The Work Report, as a minimum requirement should

1. analyse an issue problem related to the student's work environment and demonstrate an understanding of practical application of concepts relative to the student's academic background,
2. demonstrate competence in creating a professional report, and
3. show competence in written communication and presentation skills.

Late reports will not be graded unless prior permission for a late report has been given by the co-ordinator.

CH: 0

LC: 0

PR: Admission to the Co-operative Education Option of the Bachelor of Arts or Bachelor of Science degree programs and successful completion of Academic Term 4.

499W Work Term III follows the successful completion of Academic Term 5. Students should have sufficient academic grounding and work experience to contribute in a positive manner to the problem-solving and management processes needed and practiced in the work environment. Students should become better acquainted with their discipline of study, should observe and appreciate the attitudes, responsibilities, and ethics normally expected of professionals and should exercise greater independence and responsibility in their assigned work functions.

The Work Report should reflect the growing professional development of the student and, as a minimum requirement, will

1. demonstrate an increased ability to analyse a significant issue/problem related to the student's experience in the work environment
2. demonstrate a high level of competence in producing a professional report, and
3. show a high level of competence in written communication and presentation skills.

Late reports will not be graded unless prior permission for a late report has been given by the co-ordinator.

CH: 0

LC: 0

PR: Admission to the Co-operative Education Option of the Bachelor of Arts or Bachelor of Science degree programs and successful completion of Academic Term 5.

10.8 English

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from

the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Lists of texts and readings for courses may be obtained from the Secretary of the Department of English. Courses for which there is insufficient demand will not be given.

1. ENGL 1000 and 1080 are courses for students who have attained a standard in Level III English acceptable to the Department.
2. ENGL 1001, 1101, 1102, 1103, 1110 are courses which may be taken by students who have successfully completed 1000 or 1080.
3. ENGL 1000, 1001, 1080, 1101, 1102, 1103 are courses which may be taken by students who have successfully completed 1020 or 1030.
4. Students cannot receive credit for more than one of ENGL 1000, 1080, or for more than one of 1001, 1101, 1102, 1103, 1110.

English courses are designated by ENGL.

100C Survey of the English Language I - inactive course.

101C Survey of the English Language II - inactive course.

102C Survey of the English Language III - inactive course.

102F Foundation English is a non-credit course designed for students whose first language is other than English and whose knowledge and use of English do not meet the standards for entry into the regular first-year English courses.

CH: 0

LC: 4 hours of lecture plus one hour conversation class

LH: 1

103C Survey of the English Language IV - inactive course.

1020 Writing for Second Language Students I is an introduction to the use of English with emphasis on composition for non-native English-speaking students. This course is for students whose first language is not English and who have passed 102F or have attained a standard acceptable to the Department on the English Placement Test. Students who have passed ENGL 1020 may take as their second English course one of ENGL 1021, 1080, 1101, 1102, or 1103.

CR: English 1030, ENGL 1110. Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits).

PR: Admission to this course will be determined on the basis of the departmental English Placement Test or successful completion of ENGL 102F.

1021 Writing for Second Language Students II develops skills in critical reading and writing of academic English, with emphasis on research and writing syntheses from sources, for non-native English-speaking students.

CR: Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits).

PR: ENGL 1020

1030 Writing - inactive course.

1031 Prose Literature - inactive course.

1080 Critical Reading and Writing I is an introduction to such literary forms as poetry, short fiction, drama, and the essay. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, quoting and documenting, revising and editing.

CR: ENGL 1000. Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits).

1101 Critical Reading and Writing II (Fiction) is a study of such forms as the novel, the novella, the story sequence. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

CR: Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits).

PR: ENGL 1000 or 1020 or 1030 or 1080

1102 Critical Reading and Writing II (Drama) is a study of drama. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

CR: Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer

credits).

PR: ENGL 1000 or 1020 or 1030 or 1080

UL: may not be used instead of ENGL 2002 as a prerequisite for entry into the Theatre-Drama specialization within the Major.

1103 Critical Reading and Writing II (Poetry) is a study of poetry. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

CR: Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits).

PR: ENGL 1000 or 1020 or 1030 or 1080

1110 Critical Reading and Writing II (Context, Substance, Style) is an examination of prose texts such as essays, articles and reviews. Students write for different purposes and audiences. Emphasis is placed on critical reading and writing: analysing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing.

CR: ENGL 1020, ENGL 1030. Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits).

PR: ENGL 1000 or 1080

2000 Major Writers to 1800 is an introduction to the work of major authors by detailed study of selected texts. There is an emphasis on the various skills of essay writing. Some sections of this course may qualify as Research/Writing courses for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: ENGL 2005

2001 Major Writers from 1800 is an introduction to the work of major authors by detailed study of selected texts. There is an emphasis on the various skills of essay writing. Some sections of this course may qualify as Research/Writing courses for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: ENGL 2007

2002 Drama is a survey of drama from the Greeks to the present day. Some sections of this course may qualify as Research/Writing courses for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: ENGL 2350

2003 Poetry is a study of poetry, which aims to increase the students' critical understanding and appreciation of poetry, conducted through an examination of a wide variety of kinds and techniques.

2004 Short Fiction is a study of short fiction which aims to give the students an appreciation of the short story as a literary form. The course will deal with the nature, history and development of short fiction by considering a variety of authors and stories.

2010 Introduction to Professional Writing requires students to analyze published essays for their aims, strategies, and discourses. Students practice writing as a process of discovery in the context of a learning community: for instance identifying questions to explore, free-writing, finding a focus, drafting, peer-editing, revising, editing. Each student produces a portfolio of revised, edited work. This course qualifies as a Research/Writing Course.

2013 Twentieth Century Musicals (same as Music 2013) is a survey of twentieth-century musical theatre. Selected works, presenting different styles and periods, will be examined in detail. There will be a strong, required listening/viewing component to this course. The ability to read music is not required.

CR: Music 2013 and Music 3007

UL: cannot be taken for credit by students enrolled in the Bachelor of Music program

2020 Comprehension, Writing and Prose Style II is a continuation of the work begun in ENGL 1110 and ENGL 2010.

PR: ENGL 1110 or ENGL 2010

2030 Comprehension, Writing and Prose Style - inactive course.

2031 Modern Canadian Fiction - inactive course.

2110 Survey of English Literature I - inactive course.

2111 Survey of English Literature II - inactive course.

2120 Introduction to Tragedy - inactive course.

2121 Introduction to Comedy - inactive course.

2122 Introduction to World Literature in English introduces students to

the significant body of contemporary literature written in English that stands outside the dominant British/North American canon. Authors addressed include writers of global significance such as Achebe, Rushdie, Coetzee, Walcott, Kincaid and Desai. Some sections of this course may qualify as Research/Writing courses for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2150 Modern Canadian Fiction is a study of representative Canadian fiction since 1930, including such authors as Ross, Buckler, Davies, Laurence, Atwood, Ondaatje and Findley.

2151 New Canadian Fiction is a study of fiction of Canadian writers since the 1970s.

2160 North American Aboriginal Literature will introduce aboriginal literature in a social, political and historical context. Beginning with the oral tradition (songs, narratives, legends, and orations), it will focus on different works by North American aboriginal writers: poetry, drama, short stories and novels.

2211 The English Novel from 1800-1900 is a study of representative English novels of the nineteenth century including works by such authors as Austen, the Brontës, Dickens, Thackeray, Gaskell, Eliot, Trollope and Hardy. Some sections of this course may qualify as Research/Writing courses for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former ENGL 2200

2212 The Twentieth-Century British Novel is a study of representative British novels of the twentieth century, including works by such authors as Conrad, Forster, Joyce, Lawrence, Woolf, Waugh, Lessing and Murdoch.

CR: the former ENGL 2201

2213 The Twentieth-Century American Novel is a study of representative American novels of the twentieth century, including such authors as James, Dreiser, Fitzgerald, Hemingway, Faulkner, Hurston, Morrison, Pynchon, DeLillo and Silko.

CR: the former ENGL 2201

2214 Nineteenth-Century American Fiction is a study of representative American fiction of the nineteenth century including works by such authors as Poe, Hawthorne, Melville, Stowe, Twain and Chopin. Some sections of this course may qualify as Research/Writing courses for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former ENGL 2215

2250 Drama: Structure, Form and Practice - inactive course.

2390 Introduction to Modern English Structures is a practical introduction to the descriptive study of the English language with emphasis on syntax.

2400 History of the English Language to 1500 (same as Linguistics 2400) is a study of the early stages of the English Language: the Indo-European background; pronunciation and spelling, grammar, vocabulary and meaning in Old and Middle English.

CR: Linguistics 2400

PR: ENGL 2390 or Linguistics 2103

2401 History of the English Language from 1500 to Modern Times - inactive course.

2600 Introduction to Middle English is a study of the language and literature of the later medieval period, excluding Chaucer.

2601 Introduction to Early Middle English - inactive course.

2700 Writing and Gender I introduces questions related to gender in a variety of fiction and non-fiction works. This course qualifies as a research and writing course.

2811 Science Fiction and Fantasy introduces the literary sub-genres of science fiction and fantasy. It examines the traditional canonical backgrounds from which popular literatures derive, studies the formulaic patterns and explores the place of science fiction and fantasy in popular culture.

2812-2820 (Excluding 2813 and 2815) Special Topics will have topics to be studied announced by the Department.

2813 Poetics of the Image introduces students to the field of visual culture and familiarizes them with both the vocabulary and the methodologies to examine images critically.

2815 Introduction to Literary Theory and Criticism is an introduction to the study of contemporary theory and criticism with an emphasis on its application in the reading of literary texts.

2850 What is Film is designed to introduce students to the medium of film.

It is aimed at marking a shift from the natural enjoyment of movies to a critical understanding and to modes of film practice. Focus will be on the elements of film as components of cinematic style and meaning and on various approaches to the study of film.

2851 Introduction to Film Form and Film Theory is concerned with developing visual literacy skills, while also providing terminology and theory necessary to critically engage film. Special attention is paid to film form, historical/social contexts for the production and reception of visual images, and the roles that progressive reproduction technologies, spectatorship, and seeing play in understanding our contemporary world through and beyond visual culture.

3001 Satire is a study of satire from classical times, examining major forms of satiric expression such as the monologue, the parody and the long narrative.

PR: successful completion of two second-year English courses

3002 Medieval Books (same as Medieval Studies 3000, History 3000, Religious Studies 3000) is an examination of the development and role of the manuscript book during the Middle Ages. Topics covered will include book production and dissemination; authors, scribes and audiences; and various kinds of books (e.g. glossed Bibles, anthologies, books of hours, etc.) and their uses.

CR: Medieval Studies 3000, History 3000, Religious Studies 3000

PR: Medieval Studies 2000, 2001 or 2002 or permission of the instructor

3003 English Studies - inactive course.

3006 Women Writers of the Middle Ages (same as Medieval Studies 3006 and Gender Studies 3001) will study selections from the considerable corpus of women's writings in the Medieval period, as well as issues which affected women's writing. All selections will be read in English translation.

CR: Medieval Studies 3006 and Gender Studies 3001

PR: successful completion of two second-year English courses

3021 English Drama to 1580 is a study of the development of English drama from the Middle Ages to 1580. The course may also consider the popular arts, such as folk plays and mumming.

3022 Drama 1580-1642 is a study of the development of English drama (excluding Shakespeare) from 1580 to 1642.

CR: ENGL 4317

PR: successful completion of two second-year English courses

3100 The Poem Close Up explores in detail a wide range of poetry, using one or more of a variety of methods, contemporary and traditional, designed to lead an understanding of the thematic and technical of individual poems.

PR: successful completion of two second-year English courses

3105 Issues in the Acquisition of English and the Adult Learner - inactive course.

3120 Tragedy - inactive course.

3121 Comedy - inactive course.

3130 The English Novel to 1800 is a study of eighteenth-century English novels by such authors as Burney, Defoe, Fielding, Manley, Richardson, Sterne and Smollett.

CR: the former ENGL 2210

PR: successful completion of two second-year English courses

3152 Canadian Literature to 1918 is a study of the development of Canadian literature from its beginnings to the end of World War I.

CR: ENGL 3145, 3147, or the former 3150

PR: successful completion of two second-year English courses

3153 Canadian Literature, 1918-1945 - inactive course.

3155 Newfoundland Literature is a study of Newfoundland literature with emphasis on representative writers since 1900.

CR: ENGL 2155

PR: successful completion of two second-year English courses

3156 Modern Canadian Drama Drama is a study of a number of representative plays which illustrate the development of modern drama and theatre in Canada.

CR: ENGL 4307

PR: successful completion of two second-year English courses

3157 Canadian Literature 1945-1970 is a study of the development of Canadian literature from 1945 to 1970.

CR: ENGL 3148, the former ENGL 3146, the former ENGL 3151, the former ENGL 3154

PR: successful completion of two second-year English courses

3158 Canadian Literature 1970 to the Present is a study of recent developments in Canadian literature.

CR: ENGL 3148, the former ENGL 3146, the former ENGL 3151, the former ENGL 3154

PR: successful completion of two second-year English courses

3160 Empire and After: Introduction to Post-Colonial Writing offers a broad overview of post-colonial studies in English. The course provides an introduction to key ideas in the field and a study of representative texts.

PR: successful completion of two second-year English courses

3161 Nation, Region, Identity: Studies in Post-Colonial Literatures concentrates on examples of writing from within a single formerly colonized region, or nation, such as the Caribbean, Africa, the Indian sub-continent or Australasia.

PR: successful completion of two second-year English courses

3171 Anglo-Irish Drama - inactive course.

3172 Anglo-Irish Poetry is a study of representative Anglo-Irish poetry by such authors as Ferguson, Allingham, Joyce, Yeats, Stephens, Clarke, Kavanagh, Kinsella, Montague and Heaney.

CR: the former English 3170 or the former English 4185

PR: successful completion of two second-year English courses

3173 Anglo-Irish Prose is a study of representative Anglo-Irish prose by such authors as Swift, Edgeworth, Stephens, Yeats, O'Casey, Joyce, Behan, Lavin, O'Connor, O'Flaherty and Moore.

CR: the former ENGL 3170 or the former ENGL 4190

PR: successful completion of two second-year English courses

3175 Irish Literature is a study of major Irish writers such as Yeats, Joyce, O'Casey, Heaney, Friel and O'Brien.

CR: ENGL 3171, 3172, or 3173

PR: successful completion of two second-year English courses

3181 Drama of the Restoration and Eighteenth Century - inactive course.

3190 Scottish Literature is a study of representative Scottish poetry and prose from the mid-eighteenth to the twentieth century including selected works by such writers as Boswell, Burns, Hogg, Scott, Galt, Stevenson, Conan Doyle, Buchan, MacDiarmid, Garioch and Muriel Spark.

PR: successful completion of two second-year English courses

3200 Shakespeare is a study of six tragedies and romances such as Romeo and Juliet, Julius Caesar, Hamlet, Othello, King Lear, Antony and Cleopatra, Macbeth, The Winter's Tale, The Tempest.

PR: successful completion of two second-year English courses

3201 Shakespeare is a study of six comedies and histories such as Love's Labour's Lost, The Taming of the Shrew, A Midsummer Night's Dream, The Merchant of Venice, Much Ado About Nothing, As You Like It, Twelfth Night, Measure for Measure, 1 Henry IV, 2 Henry IV, Henry V.

PR: successful completion of two second-year English courses

3260 American Drama is a study of works by dramatists such as O'Neill, Rice, Maxwell Anderson, Sherwood, Williams, Hellman, Odets, Saroyan, Inge, Miller, Albee, Wilder and Kopit.

CR: ENGL 4308

PR: successful completion of two second-year English courses

3302 Nineteenth-Century Drama - inactive course.

3333 English Literature and Medical Humanities focuses on the human condition and explores our biological, psychological and spiritual journeys of pain, suffering and death as revealed through literary texts. These texts vary among the literary genres of poetry, short stories, drama, novels, etc.

PR: successful completion of two second-year English courses

3350 Theatre is an introduction to principles of directing and acting, through lectures, discussion and stage production.

OR: 3 hours of workshops

PR: successful completion of two second-year English courses

3351 The Physical Stage and Video Technique is an introduction to the fundamentals and vocabulary of design, lighting and stagecraft and film/video craft, including sound, properties, etc.

OR: three hours of workshops

PR: successful completion of two second-year English courses

3460 Folklore and Literature (same as Folklore 3460) will examine the interrelationships among folklore forms and literary genres, the influence of oral traditions on written literatures, and consider the theoretical issues raised by these interrelationships. The primary emphasis will be on the interpretation of literature from the perspective of folk tradition. Extensive reading, oral and written reports will be required.

CR: Folklore 3460, the former ENGL 4450, and the former Folklore 4450

PR: successful completion of two second-year English courses

3500 Old English Language and Poetry introduces students to the basic elements of Old English grammar and vocabulary through the practice of translating one or more poems from Old English into modern English and the study of the Old English poetic corpus in modern translations.

CR: the former ENGL 250A/B

PR: Successful completion of two second-year English courses. It is

strongly recommended that ENGL 2390 be completed prior to taking this course.

3501 Old English Language and Prose - inactive course.

3600 Chaucer is a study of representative poems.

3650 Structure of Modern English: Phonology and Morphology is a study of standard English pronunciation and regional variations; stress intonation, terminal junctures; inflectional and derivational morphology. Informal speech and written English are compared.

PR: successful completion of two second-year English courses

3651 Structure of Modern English: Syntax - inactive course.

3700 Introduction to Old Norse - inactive course.

3710-3729 Special Topics in English is available only as part of the Harlow Campus Semester.

3811-3830 (Excluding 3813, 3816, 3817, 3819 and 3830) Special Topics will have topics to be studied announced by the Department.

PR: successful completion of two second-year English courses

3813 Theories of National Cinema - inactive course.

3816 Television is an introduction to the principles of acting for the camera through lecture, discussion and studio work.

PR: ENGL 3350 and 3351; admission priority will be given to students in **Diploma in Performance and Communications Media**.

3817 Writing and Gender II draws a variety of writing to examine questions related to the study of gender. Possible topics may include the changing constructions of gender and the intersections of gender with race, class, nationality and sexuality. This course may qualify as a research and writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

PR: successful completion of two second-year English courses

3819 The Gothic offers an introduction to the Gothic mode in a selection of texts from the eighteenth century to the present. Topics covered may include the Gothic's recurrent themes of sin, sex, violence, and religion; its subversive response to dominant cultures and historical contexts; and its philosophical roots in sensibility, horror, and the sublime.

PR: successful completion of two second-year English courses

3830 Women Writers is a course setting women writers in the context of literary history.

CR: ENGL 2805, 3810

PR: successful completion of two second-year English courses

3840-3870 (Excluding 3844) Special Topics will have topics to be studied announced by the Department.

PR: successful completion of two second-year English courses

3844 Science Fiction - The Golden Age and Beyond will examine the development of science fiction from its beginnings to the present day. It will consider some of the major authors, theories, forms and concerns that have been the focus of the genre.

PR: successful completion of two second-year English courses

3900 Introduction to Creative Writing: Fiction is conducted as a seminar using models of contemporary writing and the students' own work. Each student will be required to submit work regularly.

CR: credit may be obtained for only two of ENGL 3900, 3901, and 3905

PR: Normally, admission to this course will be based on the instructor's evaluation of the student's writing. Class size will be limited.

3901 Introduction to Creative Writing: Poetry is conducted as a seminar using models of contemporary writing and the students' own work. Each student will be required to submit work regularly.

CR: credit may be obtained for only two of ENGL 3900, 3901, and 3905

PR: Normally, admission to this course will be based on the instructor's evaluation of the student's writing. Class size will be limited.

3902 Introduction to Creative Writing: Playwriting is conducted as a seminar using models of contemporary dramatic writing and the students' own work. Each student will be required to submit work regularly.

CR: the former ENGL 3842

PR: the regular prerequisites for 3000-level offerings, plus submission of a portfolio specified by the instructor and permission of the instructor

3903 Introduction to Creative Writing: Nonfiction is conducted as a seminar using models of contemporary writing and the students' own work. Each student will be required to submit work regularly.

PR: the regular prerequisites for 3000-level offerings, plus submission of a portfolio specified by the instructor and permission of the instructor

3910 Investigative Writing will permit students to learn to draft and edit short investigative pieces; and they complete an article or essay, and an investigative project that attends to ethics guidelines, research,

documentation, interviewing protocols, and writing and editing for a specific context. The course is conducted as a seminar using the students' own work. Each student will be required to submit work regularly. Some work may be done collaboratively.

PR: Normally, admission to this course will be based on the instructor's evaluation of the student's writing. Class size will be limited.

3911 Writing Satire uses models of contemporary satire as a basis for students' own work. Guest satirists will be invited to meet with students who will write satirical sketches, articles and/or plays based on their own experiences in response to current affairs and topical items of interest. Students will engage in at least one collaborative project.

PR: ENGL 2010 or ENGL 2020 (or equivalent)

3912 Song-Writing uses models from early ballads to contemporary hits and near-misses as a basis for students' own work. Guest song-writers will be invited to meet with students to discuss their compositions. Students will analyse song lyrics, write their own songs and collaborate on a major class project. The ability to sing or play a musical instrument or to read or write sheet music, while desirable, is not required.

PR: ENGL 2010 or ENGL 2020 (or equivalent)

3913 Write to Speak develops the student's ability to speak on all occasions, formal and informal, expected and unexpected. Students will deliver speeches of varying types and lengths on a regular basis throughout the semester.

PR: ENGL 2010 or ENGL 2020 (or equivalent)

3914 Professional Writing Online is a web-based course designed to help students make the best use of electronic resources and to explore new possibilities for writing and publishing online.

PR: ENGL 2010 or ENGL 2020 (or equivalent)

3920 Reviewing permits students to analyse and practice reviewing of three kinds: (a) performance; (b) film, TV video; (c) books.

PR: Normally, admission to this course will be based on the instructor's evaluation of the student's writing. Class size will be limited.

4000 English Literature and History of Ideas I is a study of European thought and culture as they affect the history and development of English literature from the Middle Ages to the eighteenth century.

PR: successful completion of two third-year English courses

4001 English Literature and the History of Ideas II is a study of European thought and culture as they affect the history and development of English literature from the eighteenth century to the present.

PR: successful completion of two third-year English courses

4010 Literature, 1485-1600: Prose and Poetry is a study of the literature of the English Renaissance, including Tudor humanism, Elizabethan prose fiction, and such writers as Wyatt, Surrey, Sidney and Spenser.

PR: successful completion of two third-year English courses

4030 British Literature, 1600-1660 is a study of selected works by such authors as Bacon, Donne, Jonson, Overbury, Browne, Herbert, Burton, Walton, Vaughan and the Cavalier poets.

PR: successful completion of two third-year English courses

4031 British Literature, 1660-1700 is a study of selected works by such authors as Milton, Marvell, Clarendon, Bunyan, Evelyn, Pepys, Behn and Dryden.

PR: successful completion of two third-year English courses

4040 British Literature, 1700-1750 is a study of selected works by such representative authors as Addison, Steele, Defoe, Swift, Shaftesbury, Pope, Thomson and Young.

PR: successful completion of two third-year English courses

4041 British Literature, 1750-1790 - inactive course.

4050 British Literature, 1790-1830 is a study of selected works of Blake, Wordsworth, Coleridge and Hazlitt.

PR: successful completion of two third-year English courses

4051 British Literature, 1790-1830 - inactive course.

4060 Victorian Literature I is a study of selected works by such writers as Carlyle, Tennyson, the Brownings, the Brontës, Arnold, and Morris.

PR: successful completion of two third-year English courses

4061 Victorian Literature II is a study of selected works by such writers as Dickens, Thackeray, Gaskell, George Eliot, Meredith, Trollope, and the Rossetti's.

PR: successful completion of two third-year English courses

4070 British Literature, 1890-1920 is a study of representative writers such as Hardy, Wilde, Conrad, Housman, Forster, Edward Thomas, Owen, D. H. Lawrence, Mansfield, Virginia Woolf.

PR: successful completion of two third-year English courses

4071 British Literature, 1920-1945 is a study of representative writers such

as Virginia Woolf, Eliot, Bowen, Orwell, Graham Greene, Auden, Empson, Waugh and Dylan Thomas.

PR: successful completion of two third-year English courses

4080 British Literature since 1945 is a study of representative writers of the period, such as Larkin, Murdoch, Hughes, Jennings, Geoffrey Hill, Powell, Pinter, Kingsley Amis and Ishiguro.

PR: successful completion of two third-year English courses

4100 Critical Theory I is a survey of critical approaches to literature, from Plato to the end of the nineteenth century. Students are advised to take this course towards the end of their program.

PR: successful completion of two third-year English courses

4101 Critical Theory II is a survey of critical approaches to literature in the twentieth century. Students are advised to take this course towards the end of their program.

CR: ENGL 4105

PR: successful completion of two third-year English courses

4210 Shakespeare's English History Plays is a course for students who have completed ENGL 3200 or 3201. Plays studied: King John, Richard II, Henry IV, Henry V, Henry VI, Richard III, Henry VIII.

CR: credit may be obtained for only two of ENGL 4210, 4211, and the former 4316

PR: ENGL 3200 or 3201

4211 Shakespeare's Roman and Greek Plays is a course for students who have completed ENGL 3200 or 3201. Plays studied: Titus Andronicus, Julius Caesar, Antony and Cleopatra, Troilus and Cressida, Coriolanus, Timon of Athens, Pericles, Cymbeline.

CR: credit may be obtained for only two of ENGL 4210, 4211, and the former 4316

PR: ENGL 3200 or 3201

4251 American Literature to 1880 is a course on representative fiction, prose and poetry, including works by such authors as Edwards, Cooper, Hawthorne, Melville, Thoreau, Emerson, Poe, Whitman and Dickinson.

PR: successful completion of two third-year English courses

4260 American Literature from 1880 to 1928 traces the development of American literature from the closing of the frontier to the beginning of the Depression through the study of such writers as Adams, James, Crane, Dreiser, Cather, Robinson and Frost.

CR: credit may be obtained for only three of ENGL 3215, 4260, 4261, and 4270

PR: successful completion of two third-year English courses

4261 American Literature from 1928 to 1945 concentrates on the study of American fiction, drama and poetry in the period between the two World Wars. The course includes such writers as Hemingway, Faulkner, Fitzgerald, O'Neill, Stevens, Cummings and Hart Crane.

CR: credit may be obtained for only three of ENGL 3215, 4260, 4261, and 4270

PR: successful completion of two third-year English courses

4270 American Literature Since 1945 is a study of representative writers of the period, such as Stevens, Lowell, Wilbur, Plath, McCullers, Bellow, Malamud.

CR: credit may be obtained for only three of ENGL 3215, 4260, 4261, and 4270

PR: successful completion of two third-year English courses

4300 Modern Drama I examines drama from Ibsen to the present day, principally of the realistic tradition, studied through representative plays.

CR: ENGL 3275

PR: ENGL 2002 or permission of the Head of Department

4301 Modern Drama II - inactive course.

4302 Contemporary British Drama is a study of representative dramatic works of contemporary British drama.

PR: successful completion of two third-year English courses

4400 Directing is the analysis, production plans and execution of selected projects.

PR: ENGL 3350 and 3351 or permission of the instructor, in consultation with the Head of the Department

4401 Producing the Play is a full semester working with a selected play, to culminate in public performance. Students will be required to participate fully in all aspects of the production, except direction, which will be the responsibility of the instructor.

PR: ENGL 3350 and 3351 or permission of the instructor, in consultation with the Head of the Department

4402 Producing the Documentary is a full semester working on a selected project, to culminate in the creation of a completed video. Students, working in groups established by the Program Co-ordinator, will be required to participate in all aspects of production.

PR: ENGL 3350, 3351, and 3816. Admission priority will be given to

students in the **Diploma in Performance and Communications Media**.

4403 Etymology-History of English Words - inactive course.

4420 English Dialectology I - inactive course.

4421 English Dialectology II (same as Linguistics 4421) is field-work and transcription; modern linguistic geography; structuralist dialectology; occupational dialects; other recent approaches.

CR: Linguistics 4421

PR: ENGL 4420 and successful completion of two third-year English courses

4422 Stylistics is a study of the main influences of language on literature. By far the most common kind of material studied is literary; attention is largely text-centred. The goal is not simply to describe the formal features of texts, but to show their functional significance for interpretation.

PR: ENGL 2390 and successful completion of two third-year English courses

4500 Old English Language and Literature I - inactive course.

4501 Old English Language and Literature II - inactive course.

4600 Middle English Language and Literature I - inactive course.

4601 Middle English Language and Literature II - inactive course.

4800 Spenser and Milton - inactive course.

4805 Blake - inactive course.

4810-4819 (Excluding 4817) Special Topics will have topics to be studied announced by the Department.

PR: successful completion of two third-year English courses

4817 Utopias and Dystopias in Literature is a study of representative literary utopias and dystopias, both classic and modern.

PR: successful completion of two third-year English courses

4821 Canadian Literature in Context I - inactive course.

4822 Canadian Literature in Context II - inactive course.

4850 Contemporary Canadian Poetry is a seminar course in contemporary Canadian poetry. Students will have the opportunity to study collections by six English Canadian contemporary poets - not just new work by established older writers, but also first collections by younger writers. The work of poets from across Canada will be chosen.

CR: ENGL 3148

PR: successful completion of two third-year English courses

4851 Canadian Exploration Literature will examine Canada's early exploration and travel literature and show how it has shaped our contemporary fiction. Early texts may be studied from an anthology of exploration writings, such as Germaine Warkentin's *Canadian Exploration Literature: An Anthology*. Several contemporary novels will also be studied and may include Wayne Johnston's *The Navigator of New York* and John Steffler's *The Afterlife of George Cartwright*.

PR: successful completion of two third-year English courses

4852-4860 Special Topics in Canadian Literature will have topics to be studied announced by the Department.

PR: successful completion of two third-year English courses

4900 Book History and Print Culture I is an introduction to bibliographical and textual studies for the advanced study of English. Areas covered may include the book as a material object; the history of the book; manuscripts; the spread of printing; the hand-press period; editing of texts; the evolution of the library; origins of intellectual property; freedom of the press; aspects of literary detection, forgery and plagiarism.

PR: successful completion of two third-year English courses

4901 Book History and Print Culture II - inactive course.

4910 Advanced Creative Writing: Fiction is a seminar for students who wish to write publishable literary fiction. Class size will be limited. Students will be expected to produce at least 15,000 words during the semester. Regular participation is also required.

PR: completion of ENGL 3900 with a grade of 70 or higher and submission of a portfolio and permission of the instructor.

4911 Advanced Creative Writing: Poetry uses models of contemporary writing and the students' own work. This course is designed to develop further the technical skill of those students who have reached a high level of achievement in the introductory creative writing course in poetry, English 3901 (or who have a body of work of exceptional accomplishment) and to help them move towards publication in literary journals and chapbooks.

PR: normally, admission to this course will be based on the instructor's evaluation of the student's writing and on the achievement of a minimum grade of 70% in ENGL 3901 or ENGL 3900

4912 Advanced Creative Writing: Playwriting - inactive course.

4913 Advanced Creative Writing: Nonfiction is conducted as a seminar using models of contemporary writing and the students' own work. Each student will be required to submit work regularly.

PR: successful completion of at least one Creative Writing course at the 3000-level, plus submission of a portfolio specified by the instructor and permission of the instructor

4914 Advanced Editing is editing for the workplace: An intensive course in drafting and editing. Students will be expected to work both individually and collaboratively.

PR: Normally, students will (a) be enrolled in the **Diploma in Professional Writing** and (b) have successfully completed at least two of the following: ENGL 3001, 3817, 3903 (or other course designated Creative Writing), 3910, 3920. Normally, admission to this course will be based on the instructor's evaluation of the student's writing. Class size will be limited.

4920-4930 Special Topics in Creative Writing will have topics to be studied announced by the Department.

PR: successful completion of two third-year English courses

4999 Essay for Honours Candidates is required as part of the Honours program.

5000 Instructional Field Placement is a 6 credit hour course which occurs upon completion of course work in the **Diploma in Performance and Communications Media**. The curriculum emphasis is on the application of acquired skills. Continuing the project-oriented structure built into the practical courses, students will be placed with existing projects in the professional communities of film, television, theatre or video.

CH: 6

PR: ENGL 3350, 3351, 3816, 4400, 4401, 4402, with an overall average of 65% in these courses. Restricted to students in the **Diploma in Performance and Communications Media**. Admission is by application to the Program Co-ordinator, normally at least three months before the beginning of the placement, and is limited to students who at the time of admission have completed the six courses listed above with an overall average of at least 65% and who already hold a first degree or are in their final year of a degree program as confirmed by the Office of the Registrar.

UL: can be used for credit only towards the **Diploma in Performance and Communications Media**

5100 ESL Instructional Field Placement is a 6 credit hour practicum consisting of classroom observation, group discussion of observations, one-to-one tutoring and classroom teaching practice. Participation in a weekly discussion group and submission of preliminary and final reports are required.

CH: 6

PR: ENGL 3105 or Linguistics 3105

5200 Instructional Field Placement in Professional Writing is a 6 credit hour course which has students, upon completion of the courses in the **Diploma in Professional Writing** (18 credit hours), placed in work-place environments where they will contribute under supervision to the planning, drafting and editing of documents.

CH: 6

PR: completion of the six courses in the program, with an overall average of 65% in these courses.

10.8.1 English as a Second Language

011F Core Intensive English Program covers reading through a variety of types of texts, vocabulary development, writing development, and academic listening and note-taking skills. Students will be placed into appropriate sections following a placement test.

012F Speaking, Listening, and Culture includes development of speaking and listening abilities through a wide variety of tasks and communicative activities, including discussions, debates, conversation, role-plays, and presentations. Listening activities promote comprehension of rapid conversational English, while discussion topics enrich students' understanding of Canadian culture. Students will be placed into appropriate sections following a placement test.

10.9 European Studies

European Studies courses are designated by EURS.

2000 Europe in the Twentieth Century (same as History 2350 and Political Science 2990) is a social, economic and political history of Europe from World War I to the present. The course examines the shift from war and depression to peace and prosperity. Examining the rise and demise of fascism and communism, postwar reconstruction, and Europe's changing position in the world, it explores the interplay between domestic and international politics and Europe's position in the international order. This course is recommended for students considering a Harlow semester,

exchange programs in Europe, or further courses in European history or politics.

CR: History 2350, Political Science 2990, the former Political Science 2350

3000-3030 Special Topics in European Studies will be a reflection on modern Europe through the study of one or more of the following: film, comparative literature, art, architecture, music, etc.

10.10 Folklore

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Folklore courses are designated by FOLK.

1000 Introduction to Folklore explores the role of tradition in communication, art and society. Reading assignments and audiovisual material will emphasize the use of folklore in context. Students will analyse traditions in their own lives through special assignments.

CR: FOLK 2000

1050 Folklore Studies - inactive course.

1060 Folklore and Culture is an introduction to traditional expressive behaviour as cultural experience. Readings and lectures will explore the various meanings of "culture" from interdisciplinary perspectives and link the development of theoretical approaches to culture (evolutionary, materialist, particularist, psychological, semiotic, dramaturgic) to specific folkloric phenomena. Illustrations will derive primarily from children's folklore, material culture, and occupational folklife.

PR: while there is no prerequisite for this course, students should note that they will need to take Folklore 1000 (or 2000) before they can advance to other courses

2000 Introduction to Folklore - inactive course.

2100 Folklore Research Methods introduces the resources, tools and methods that folklorists use for primary and secondary research, including interviewing and participant observation. This course qualifies as a Research/Writing course.

PR: it is strongly recommended that majors and minors take this course before taking 3000 and 4000 level courses

2230 Newfoundland Society and Culture (same as Sociology 2230 and the former Sociology/Anthropology 2230) is a survey of the full range of folklore in the province, with an emphasis on community and regional identity.

CR: Sociology 2230, the former Sociology/Anthropology 2230

2300 Newfoundland and Labrador Folklore (same as the former Anthropology 2300) is a survey of the full range of folklore in the province, with an emphasis on community and regional identity.

CR: the former Anthropology 2300, the former FOLK 3420

2401 Folklife Studies examines the interweaving of traditional elements in the tangible and intangible cultural heritage of various cultures. These may include holiday customs, rites of passage, folk religion, home remedies, clothing, food and art.

CR: the former FOLK 3500

2500 Oral Literature (same as the former Anthropology 2500) focuses on the analysis of folk literature - narrative, poetry and song, drama, and speech from around the world - through textual, comparative and contextual methods.

CR: the former Anthropology 2500, the former English 3400, the former FOLK 3400, the former Sociology/Anthropology 3400

2700 Ethnography of the University allows students to develop their skills in cultural documentation as they work within a team-based approach to record and analyse Memorial University's unofficial culture. Course readings cover ethnographic practices and issues as well as the dynamics of student and work culture. Through a series of hands on fieldwork assignments students engage in research, cultural description, analytic writing and presentation. In documenting local university culture, they learn about the variety, persistence, and flexibility of traditional culture as it lives in the present. This course qualifies as a Research/Writing course.

3001 Art, Architecture and Medieval Life (same as Archaeology 3001, History 3020, and Medieval Studies 3001) is an examination of the development of medieval art and architecture and of the ways in which they mirror various aspects of life in the Middle Ages. This course will include a discussion of art and architecture in the countryside, in the town, in the castle, in the cathedral and in the cloister.

CR: Archaeology 3001, History 3020, and Medieval Studies 3001

PR: it is recommended, but not obligatory, that students should have successfully completed one of the following courses: Archaeology

2480, FOLK 1000 or 2000, History 2320/Medieval Studies 2001, History 2330/Medieval Studies 2002, Medieval Studies 2000

3100 Fictional Worlds: The Folktale is a study of fictional folk narratives told worldwide. Students may be asked to read, collect, and/or analyze folktales.

CR: the former FOLK 4200

3200 Music, Song and Tradition (same as Music 3017) introduces students to a wide range of traditional song. Students will hear and discuss local, regional and international examples. Ability to read music or familiarity with music theory not required.

CR: Music 3017, the former FOLK 2430

3250 Song Worlds: The Ballad examines traditional balladry (including subgenres such as tragic, comic, romantic, religious, and medieval ballads) in the contexts of transmission, function, performance, and aesthetics. Differences in dealing with written literature and the literature of tradition will also be addressed.

CR: the former FOLK 4445

3300 Vernacular Drama is a survey of traditional drama and its study with an emphasis on North America and Great Britain from social function, performance, and aesthetic perspectives.

3350 Folklore of the Body examines how the body is socially constructed and how it is represented through folklore genres from narrative, to material culture and custom. It considers how culture is both inscribed on the body and how it is bodily performed.

CR: the former FOLK 3611

3360 Sex/Folklore/Power is 1) an introduction to the many ways that sexual identities are displayed, developed, and categorized through informal and everyday cultural performances, i.e., folklore; 2) a study of how such performances relate to various folklore genres, including folk language and narrative, music/song/ballad, material culture/space, and festival/ritual; and 3) an examination of how social power structures are (de)constructed and negotiated through folk processes involving sexuality/sexual identities.

3450 Language and Play examines the role of play in the folklore of children and adults with particular attention to games, rhymes, proverbs and other small genres of wordplay.

3460 Folklore and Literature (same as English 3460) will examine the interrelationships among folklore forms and literary genres, the influence of oral traditions on written literatures, and consider the theoretical issues raised by these interrelationships. The primary emphasis will be on the interpretation of literature from the perspective of folk tradition. Extensive reading, oral and written reports will be required.

CR: English 3460, the former English 4450, the former FOLK 4450

3591 Collections Management (same as Archaeology 3591) will introduce students to the problems of collections storage with respect to environment, materials and artifact access. Students will become familiar with the materials encountered in archaeological and ethnographic collections. The storage of specific historic and prehistoric collections from Newfoundland and Labrador will be examined with the purpose of providing practical examples of methodology.

CR: Archaeology 3591

3601-3640 (Excluding 3606, 3612 and 3618) Special Topic in Folklore will have topics to be studied announced by the Department.

3606 Supernatural Folklore focuses on the ethnography of belief systems. Students examine patterns of belief and the features of supernatural folklore.

3612 Urban Legend provides an introduction to the study of one of the most rapidly expanding and exciting areas of folk narrative research. The course looks at the main features of the urban legend and the topics they cover. Examination is also made as to how, when, where and why stories of this type are used, including their incorporation into television programs, films and literature.

3618 Jazz and Blues: The Roots of Popular Music - inactive course.

3650 Artifacts of Colonial America (same as Archaeology 3650) provides students with practical experience in the analytical methods used to identify, date and interpret the different types of artifacts encountered on seventeenth- and eighteenth-century archaeological sites in Colonial North America. In-depth discussions on manufacture, technology, form and function provide the necessary background for a better understanding of concepts relating to artifact identification, provenance, dating techniques, theoretical approaches and other current issues.

CR: Archaeology 3650, Archaeology 3683, the former Anthropology 3683

3700 Museums and Historic Sites - inactive course.

3710-3729 Special Topics in Folklore is available only as part of the Harlow Campus Semester.

3800 Fieldwork in Vernacular Architecture: Drawings and Photography

- inactive course.

3820 Folk Custom provides an introduction to the study of the forms of British, European, and North American folk custom. Issues for discussion will include the diffusion, functions, maintenance and invention of calendar, seasonal, occupational, and life-cycle customs. As such, we will review much of the new scholarship which has shifted folkloristic attention from origins of customs to the analysis of custom as symbolic behaviour. Current work on the study of custom has examined, for example, the legitimation of class interests via traditional customs, the play of metaphor in festivals, and the symbolic statement of social obligations through life-cycle ritual.

CR: the former FOLK 3600

3830 Foodways as a term embraces a variety of traditions which focus on dietary practices as well as the preparation and allocation of food. As an introduction to foodways, the course will begin by looking at a variety of regional foods. In addition, both historical and contemporary approaches to the supply, storage, preparation and serving of food will be considered. In fact, we will be looking, from both practical and theoretical perspectives, at the whole range of cookery and food habits - from the acquisition of raw materials to the allocation of portions.

3850 Material Culture (same as Archaeology 3850) is an examination of various interpretive theories of objects as cultural products. Problems of defining the artifact will be discussed, as well as the strengths and limitations of using objects in historical and ethnographic research. Questions discussed include form, design, decoration, diffusion, and the role of the creator of the object. Besides folkloristic work on material culture, a variety of interdisciplinary approaches will be considered. Emphasis will be on the material folk culture of Newfoundland and Labrador and its European antecedents.

CR: Archaeology 3850

3860 Vernacular Architecture (same as Archaeology 3860 and History 3860) is a historical survey of vernacular architectural forms in various regions of North America, with attention to Newfoundland and Labrador materials. Issues discussed include the relationship of house form and culture, the concepts of antecedents, diffusion, innovation and evolution of building forms and technologies, and the siting of buildings in the landscape. Dwelling houses, outbuildings, churches and industrial vernacular architecture will be included.

CR: Archaeology 3860, History 3860

3870 An Introduction to the History of Western Architecture Since the Renaissance - inactive course.

3900 Newfoundland and Labrador Vernacular Furnishings (same as Archaeology 3900) is an introduction to the furnishings of the Newfoundland and Labrador domestic interior, involving case studies from public and private collections. The focus of the course will be on furniture, looking at both urban and outport forms. The cultural context of typical furnishings will be discussed, as well as details of furniture form and construction. While furniture will be emphasized, other objects of domestic material culture may be included: glass, ceramics, metalware and textiles.

CR: Archaeology 3900

3910 Traditions of Work concerns the development and role of tradition in occupational groups and work settings. Verbal and non-verbal codes including narratives, joking relationships, pranks, material culture, and labourlore will be examined in a variety of contexts.

3920 Folklore and Education familiarizes students with the function of Folklore in the educational process. Emphasis will be on cultural transmission and cultural learning inside and outside the K-12 classroom.

3930 Folklore and Popular Culture is an examination of the transitional processes involved in the development of folk societies to mass cultures with regard to folklore and the products of popular culture. In addition, sensory and technological media theories will be scrutinized and evaluated in conjunction with cultural comparisons of the qualities and functions of: folksong, disc recordings and the radio; folktales, television melodrama and popular film; folk art and popular "techno-art" forms.

CR: the former FOLK 2400

3940 Folklore in Medieval Society - inactive course.

3950 Women and Traditional Culture is an introduction to the ways in which women shape and/or are shaped by traditional culture. Readings and lectures will explore roles and contributions of women as folklore collectors, examine representations of women in folklore forms, and analyse women's creation of their own traditions.

4015 Cultural Resource Management (same as Archaeology 4015 and Geography 4015) is a study of cultural resource management: the definition and recognition of cultural resources, the application of policy in managing cultural resources, and the identification and consideration of contemporary issues in cultural resource management.

CR: Archaeology 4015, Geography 4015

OR: three hours of seminar per week

4100 History and Memory (same as History 4100) is a course which recognizes that memory is not one of the natural parts of ourselves, nor is remembering a way of connecting with a single reference point in a social reality outside ourselves. These things are socially determined. Starting here, this course is designed to have students reflect on what they know about the past and how they know about it. The class will examine how individual and social memory works, concentrating on particular historical contexts.

CR: History 4100, the former History 4569

4300 Folklore of Canada - inactive course.

4310 Studies in Newfoundland and Labrador Folklore studies rural and urban Newfoundland and Labrador with specific reference to a culture in transition. Folklore is examined as one of the channels through which a people maintain, change and adapt various cultural patterns.

CR: the former FOLK 3421
PR: FOLK 2300

4320 Folklore of the United States - inactive course.

4350 Folklore of the British Isles - inactive course.

4360 Traditional Culture of Scotland - inactive course.

4370 Culture and Traditions of Ireland - inactive course.

4400 Traditional Culture of French-Newfoundlanders - inactive course.

4410 Folklore of France - inactive course.

4420 French Folklore in the New World - inactive course.

4440 Music and Culture (same as the former Anthropology 4440, Music 4040, and the former Music 4440) examines traditional music as an aspect of human behaviour in Western and non-European cultures. Examination of the functions and uses of music; folk-popular-art music distinctions; and the relation of style to content. Outside reading, class exercises and individual reports will be required.

CR: the former Anthropology 4440, Music 4040, the former Music 4440

4460 Folk Religion (same as Religious Studies 4460) is an examination of folk responses to organized religion, surveying the religious forms and interpretations not specifically delineated by Theology. Areas of focus include: folk religious concepts of space and time; religion and healing; witchcraft and the devil; religious folk art and music; religious verbal art; the role and power of the holy person; the saint system; and community social activities sponsored by the church. A discussion of some current popular religious movements will also be included. Attention will be given to material in the MUN Folklore and Language Archive, and research based on field data will be encouraged.

CR: Religious Studies 4460, the former FOLK 4240

4470 Spaces and Places critically examines how physical space is transformed into cultural place through folklore. The study of region will be used to introduce scholarship on a number of issues central to contemporary folkloristics: sense of place, space and place analysis, space and place as theory, critical regionalism, nationalism and vernacular regionalisms. Students will learn how folklore and localization interact to counter fears and assumptions regarding globalization, homogenization, and the loss of local or regional identities.

4480 Oral History (same as History 4480) is a seminar which deals with the uses of oral sources, particularly those which have a traditional dimension, for the study of history. The uses of oral testimony in the study of traditional modes of life and work, and in social and political history will be discussed.

CR: History 4480

4500-4520 Special Topic in Folklore will have topics to be studied announced by the Department.

4600-4615 Special Research in Folklore will be determined by the Department.

4700-4715 Directed Reading Course will be offered as determined by the Department.

4810 Documents Management (same as History 4810) is an introduction to the management of records and documents, both official and private.

CR: History 4810

400X Folklore in the Community Context - inactive course.

4998 Honours Comprehensive Examination may be written or oral, or a combination of both.

4999 Honours Essay is required as part of the Honours program.

10.11 French

In accordance with Senate's *Policy Regarding Inactive Courses*,

the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Students who have successfully completed one or more credit courses in French language will not subsequently be permitted to receive credit for courses not previously completed and judged by the Department to be of a lower level than those already completed. Students returning to the study of French after an absence should consult the Department for current information on these restrictions before registering. Students who wish to return to a previously completed course to improve their standing may do so only with the permission of the Head of the Department.

French courses are designated by FREN.

1500 Introductory University French I is a course for beginners and for students whose background in French is very weak. Students with a strong background in high-school French should bypass 1500 and begin their University study with 1501, especially if they intend to proceed beyond the first-year level. Very well-prepared students may apply to the Department for permission to enter 1502 directly.

1500 Introduction à la langue française, niveau universitaire I cours pour débutants et pour ceux dont les connaissances du français sont très faibles.

CR: the former FREN 1010 or the former FREN 1011

LH: two additional hours of language laboratory work or conversation class, or both

PR: students may not register concurrently for more than one of FREN 1500, 1501 and 1502 except with the permission of the Head of the Department.

UL: permission to register for this course will not be given to students who have completed Français 3202 (High School French immersion)

1501 Introductory University French II is one of three consecutive credit courses in French language at the first-year university level, offering a complete overview of basic oral and written French. New students may choose to register initially in FREN 1500 or 1501; a diagnostic test is offered to assist students with initial course selection or to confirm that initial course selection is appropriate. Students with a limited background in French should register for FREN 1500 and continue with 1501. Students with a strong background in high-school French should bypass 1500 and begin their University study with 1501, especially if they intend to proceed beyond the first-year level. Very well-prepared students may apply to the Department for permission to enter 1502 directly.

1501 Introduction à la langue française, niveau universitaire II

CR: the former FREN 1050

LH: two additional hours of language laboratory work or conversation class, or both

PR: High School FREN 3200 or permission of the Head of the Department.

Ex-immersion students should consult the Head of the Department before registering for this course. Students may not register concurrently for more than one of FREN 1500, 1501 and 1502 except with the permission of the Head of the Department.

1502 Introductory University French III is one of three consecutive credit courses in French language at the first-year university level, offering a complete overview of basic oral and written French.

1502 Introduction à la langue française, niveau universitaire III

CR: the former FREN 1051

LH: two additional hours of language laboratory work or conversation class, or both

PR: FREN 1501 with a grade of at least 60% or by permission of the Head of the Department. Students may not register concurrently for more than one of FREN 1500, 1501 and 1502 except with the permission of the Head of the Department. Very well-prepared students may apply to the Department for permission to enter 1502 directly.

2100 Intermediate French I is a course on composition, grammar and practice in oral skills.

2100 Français intermédiaire II rédaction, grammaire et pratique orale.

CR: FREN 2160 or 2101

PR: FREN 1502 with a grade of at least 60%

2101 Intermediate French II is further work in composition, grammar and oral skills.

2101 Français intermédiaire II continuation du travail de rédaction, de grammaire et de communication orale.

CR: FREN 2100 or 2160

PR: FREN 2100

2159 Advanced French for First-year Students I is primarily intended to build on the language skills acquired by students in immersion programs. Development of reading, writing, listening and speaking ability through practical oral and written exercises.

2159 Français avancé pour étudiants de première année I ce cours est

conçu principalement pour développer les compétences linguistiques des étudiants qui ont reçu leur formation dans les programmes d'immersion. La compréhension et l'expression écrites et orales seront développées au moyen d'exercices pratiques oraux et écrits.

PR: primarily intended for students who completed immersion programs or with permission of the Head of the Department. FREN 2159 and 2160 are courses designed for former French immersion students as well as others with exceptional backgrounds in French, and are intended as an alternative to the 1500, 1501, 1502, 2100, 2101 sequence.

2160 Advanced French for First-year Students II is an intensive review of French grammar with oral and written practice. Particular attention will be paid to ensuring precision in language use in both oral and written forms and to eradicating anglicisms.

2160 Français avancé pour étudiants de première année II révision intensive de la grammaire et pratique de la langue écrite et parlée pour assurer la précision linguistique à l'oral ainsi qu'à l'écrit et supprimer les anglicismes.

CR: French 2100 or 2101

PR: French 2159 or the former French 1060. FREN 2159 and 2160 are courses designed for former French immersion students as well as others with exceptional backgrounds in French, and are intended as an alternative to the 1500, 1501, 1502, 2100, 2101 sequence.

2300 Phonetics is a practical introduction to French phonetics, including the International Phonetic Alphabet and phonetic transcription as well as corrective phonetics.

2300 Phonétique introduction pratique à la phonétique du français. Emploi des symboles de l'alphabet phonétique, transcription phonétique et phonétique corrective.

PR: FREN 1502 or equivalent

2601 Grammar and Reading will explore reading strategies in a variety of narrative and descriptive readings in French. This course will normally be taught in French.

2601 Grammaire et texte les étudiants exploreront des stratégies de lecture qui faciliteront la compréhension de textes narratifs et descriptifs divers. Ce cours sera enseigné normalement en français.

PR: FREN 1502 or 2159 or equivalent

2602 Reading Practice will explore reading strategies in a variety of readings in FREN intended to inform or persuade. This course will normally be taught in French.

2602 Pratique de la lecture les étudiants exploreront des stratégies qui faciliteront la compréhension de textes informatifs et argumentatifs divers. Ce cours sera enseigné normalement en français.

PR: FREN 2601 or equivalent

2900 A Survey of Francophone Cultures places emphasis on oral comprehension and expression.

2900 Survol des cultures francophones accent mis sur la compréhension et l'expression orales.

CR: the former FREN 2500

PR: FREN 1502 or equivalent. Students who have obtained less than 70% in 1051 are, however, advised to complete FREN 2100 before attempting this course.

3100 Grammar and Textual Analysis is a revision of the French noun and verb systems (morphology, number, gender, tense, aspect, mood, voice). Grammatical and stylistic textual analysis with special emphasis on the use of verbs in French. Vocabulary enrichment.

3100 Grammaire et analyse de textes révision des catégories nominale et verbale du français (morphologie, nombre, genre, temps, aspect, mode, voix). Analyse grammaticale et stylistique des textes avec un accent particulier sur l'emploi du verbe en français. Travaux d'expansion lexicale.

PR: FREN 2101 or 2160 and at least one other 2000-level course in French

3101 Stylistics and Textual Analysis examines role and function of the parts of speech in French; semantic enrichment (synonymy, polysemy); tropes and figures of speech. Grammatical and stylistic textual analysis with special emphasis on these phenomena. Vocabulary enrichment.

3101 Stylistique et analyse de textes rôle et fonction des parties du discours; exploitation sémantique (synonymie, polysémie); tropes et figures de style. Analyse grammaticale et stylistique de textes avec un accent particulier sur ces phénomènes. Travaux d'expansion lexicale

PR: FREN 3100

3102 French Language Studies at Nice (I) is a required course of Session I of the Canadian Third Year Program in Nice. The content of this course will be the equivalent of a language course at the third year level.

3102 Études de la langue française à Nice (I) est un cours obligatoire lors du premier du programme Canadian Third Year in Nice. Le contenu de ce cours correspond à un cours de langue de troisième année de l'université responsable de la coordination.

PR: admission to the Canadian Third Year Program in Nice and French 2101, or permission of the Head of the Department.

3103 French Language Studies at Nice (II) is a required course of Session II of the Canadian Third Year Program in Nice. The content of this course

will be the continuation of the language course offered during the previous semester and will be the equivalent of a language course at the third year level in the university that sends the Coordinator.

3103 Études de la langue française à Nice (II) est un cours obligatoire lors du deuxième semestre du programme Canadian Third Year in Nice. Le contenu de cours est la suite de ce cours de langue enseigné pendant le précédent et correspond à un cours de langue de troisième année de l'université responsable de la coordination.

PR: admission to the Canadian Third Year Program in Nice and French 3102

3300 Rhetoric and Public Speaking is convincing and arguing in French. The course will be structured by rhetoric: memory, invention, disposition, elocution, diction. Various oral exercises.

3300 Rhétorique et art oratoire le discours et le dialogue. Le cadre du cours est la rhétorique: mémoire, invention, disposition, élocution, diction. Exercices oraux variés.

OR: two and a half hours of instruction plus one 50-minute period of conversation class per week

PR: 6 credit hours in FREN at the 2000 level

3302 History of the French Language (same as Linguistics 3302) is a study of the origins of French, including the influence of Gaulish, Vulgar Latin, Frankish and the langue d'oc/langue d'oïl division, a survey of the dialects, morphology and syntax of Old French and of the evolution from Old to Middle French, including phonology, morphology, syntax and vocabulary.

3302 Histoire de la langue française (identique à Linguistique 3302) Une étude des origines du français qui porte sur l'influence du gaulois, du latin vulgaire, du francique et de la division langue d'oc/langue d'oïl; survol des dialectes, de la morphologie et de la syntaxe de l'ancien français, ainsi que de l'évolution de l'ancien français au moyen français, en tenant compte de la phonologie, de la morphologie, de la syntaxe et du vocabulaire.

CR: Linguistics 3302

PR: French 2101 (or 2160) and 2300; Classics 1120 is strongly recommended

3310 Phonology and Morphology of French (same as Linguistics 3310) is an examination of the phonological and morphological structure of French. Data from regional and non-standard varieties contrasted with data from standard French: formal rules to deal with observed regularities. Interactions of phonology and morphology in phenomena such as liaison. Derivational and inflectional morphology. Research articles on one or more of the topics dealt with in the course will be assigned as readings, and a written report in French based on one or more of the articles is to be submitted as part of the term work. This course will normally be taught in French.

3310 Phonologie et morphologie du français (identique à Linguistique 3310) Une étude de la structure phonologique et morphologique du français. Données des variétés régionales et non-standard en contraste avec le français standard: règles formelles pour rendre compte des régularités observées. Interaction de la phonologie et de la morphologie dans la liaison et d'autres contextes. La flexion et la dérivation. On prescrit des articles de recherche sur l'un ou plusieurs des thèmes à l'étude et un rapport rédigé en français sur l'un ou plusieurs des articles. Ce cours est normalement enseigné en français.

CR: Linguistics 3310

PR: French 2300 or permission of the instructor. Students who have not completed FREN 2300 are strongly advised to complete at least one 2000-level course in French before attempting FREN 3310.

3311 Introduction to General Linguistics: Aspects of French Linguistic Theory (same as Linguistics 3311) is a practical examination of the French verbal system, with a thorough exposition of the systems of aspect, voice, tense and mood. The fundamental concepts of linguistics will form the framework of this exposition: the langue/parole distinction and its relationship to underlying and surface entities, language as activity and the generation of surface elements from underlying subsystems. This course will normally be taught in French.

3311 Initiation à la linguistique générale: aspects de la théorie linguistique française (identique à Linguistique 3311) Étude pratique du système verbal du français et une exposition approfondie des systèmes de l'aspect, de la voix et des modes. Les concepts fondamentaux de la linguistique serviront de cadre à cette exposition: la distinction langue/parole et le rapport avec les entités sous-jacentes et de surface; le langage comme activité et la génération des éléments de surface à partir des systèmes sous-jacents. Ce cours sera normalement enseigné en français.

CR: Linguistics 3311

PR: a Linguistics course or FREN 2100 or 2159

3500 An Introduction to Prose Literature in French pays particular attention to the literatures of French Canada and France.

3500 Introduction à la prose de langue française une attention particulière sera accordée aux littératures du Canada français et de la France.

PR: FREN 2602 or equivalent

3501 An Introduction to Drama in French pays particular attention to the literatures of French Canada and France.

3501 Introduction au théâtre de langue française une attention particulière sera accordée aux littératures du Canada français et de la

France.

PR: FREN 2602 or equivalent

3502 An Introduction to Poetry in French pays particular attention to the literatures of French Canada and France.

3502 Introduction à la poésie de langue française une attention particulière sera accordée à la poésie du Canada français et de la France.

PR: FREN 2602 or equivalent

3503 Study of Theme is the study of a particular theme or of interrelated themes in selected French-language texts.

3503 Thématique un ou quelques thèmes reliés étudiés à travers un choix de textes d'expression française.

PR: FREN 2602 or equivalent

3504 Literary History is the study of one or more literary periods through selected French-language texts.

3503 Histoire littéraire l'étude d'une ou de quelques époques à travers un choix de textes d'expression française.

PR: FREN 2602 or equivalent

3506 French Cinema is a survey course designed to acquaint students with the major productions and trends in French cinema. The course is taught in French, and films screened will not necessarily have English subtitles. It is therefore recommended that students have a good aural comprehension of French.

3506 Cinéma francophone un cours d'initiation conçu pour familiariser l'étudiant avec les principales productions et directions du cinéma français. Ce cours est enseigné en français, et les films projetés ne seront pas nécessairement sous-titrés en anglais. Il est donc recommandé que les étudiants aient une bonne compréhension auditive du français.

PR: FREN 2602 or equivalent

3507 Advanced French Studies at Nice (I) is a required course of Session I of the Canadian Third Year Program in Nice. The Coordinator will choose among a French literature, linguistics or culture course taught at his or her university.

3507 Études françaises à Nice (I) est un cours obligatoire lors du premier du programme Canadian Third Year in Nice. La personne responsable de la coordination choisit un cours de littérature, de linguistique ou de culture enseigné dans son université.

PR: admission to the Canadian Third Year Program in Nice and French 2602, or permission of the Head of the Department

3508 Advanced French Studies at Nice (II) is a required course of Session II of the Canadian Third Year Program in Nice. The Coordinator will choose among a French literature, linguistics or culture course taught at his or her university.

3508 Études françaises à Nice (II) est un cours obligatoire lors du deuxième du programme Canadian Third Year in Nice. La personne responsable de la coordination choisit un cours de littérature, de linguistique ou de culture enseigné dans son université.

PR: admission to the Canadian Third Year Program in Nice and French 3507

3650 French Culture is an introduction to the culture of French. Practice in oral and written French.

3650 Culture française introduction à la culture française. Pratique de la langue orale et écrite.

PR: French 2101 or 2602 and French 2300 or 2900

3651 Quebec Culture is an introduction to the culture of Quebec. Practice in oral and written French.

3651 Culture québécoise introduction à la culture du Québec. Pratique de la langue oral et écrite.

PR: French 2101 or 2602 and French 2300 or 2900

3653 Canadian Francophone Culture Outside Quebec is an introduction to the culture of French-speaking regions of Canada other than Quebec. Practice in oral and written French.

3653 Culture franco-canadienne hors Québec introduction à la culture d'expression française du Canada à l'extérieur du Québec. Pratique de la langue orale et écrite.

PR: French 2101 or 2602 and French 2300 or 2900

3654 Francophone World studies the role, the diversity of the French language, its status and challenges in the French-speaking world outside France and Canada.

3654 La Francophonie mondiale étudie le rôle, la diversité de la langue française, ses statuts et défis dans le monde francophone en dehors de la France et du Canada.

PR: French 2101 or 2602 and French 2300 or 2900

3800 Interdisciplinary Topics in French Culture - inactive course.

3800 Étude interdisciplinaire en culture française - cours désactivé.

4100 Advanced French Expression is an intensive review of the stylistics of written French, including levels of expression and composition of texts with a Francophone audience in mind (correspondence, reports, etc.). Advanced oral practice.

4100 Perfectionnement de l'expression pratique intensive de la stylistique du français écrit; exploration des registres; rédaction de textes en vue d'un lectorat francophone (correspondance, rapport, réclamation, etc.). Pratique du français oral, niveau avancé.

PR: FREN 3100 and 3101 or FREN 3102 and 3103

4101 Translation and Comparative Stylistics is an introduction to principles and methods of translation from French to English and English to French. Comparative stylistics of French and English.

4101 Traduction et stylistique comparée initiation aux principes et aux méthodes de la traduction (thème et version). Stylistique comparée du français et de l'anglais.

PR: FREN 3100 and 3101 or FREN 3102 and 3103

4120-4129 Special Topics in French language are advanced courses on specialized topics in French language. Subjects to be treated will be announced each year by the Department.

4120 - 4129 Sujets spéciaux de langue française cours avancés portant sur des aspects spécialisés de la langue française. Les sujets traités seront annoncés chaque année par le Département.

PR: FREN 3100 and 3101 or FREN 3102 and 3103

4301 French Dialects, Patois, and Argots - inactive course.

4301 Étude des dialectes, patois et argots de France - cours désactivé.

4310 The French Language in Canada - inactive course.

4310 La langue française au Canada - cours désactivé.

4400 Traditional Culture of French-Newfoundlanders - inactive course.

4400 Culture traditionnelle des Franco-Terre-Neuviens - cours désactivé.

4410 Folklore of France - inactive course.

4410 Folklore de France - cours désactivé.

4420 French Folklore in the New World - inactive course.

4420 Folklore français du Nouveau Monde - cours désactivé.

4610 Literary Movement I is French literary history through the study of a movement or trend in literature up to romanticism: courtoisie, libertinage, libre pensée (free thought), the baroque, humanism, classicism, romanticism, etc.

4610 Mouvement littéraire I histoire de la littérature d'expression française à travers l'étude d'un mouvement ou d'un courant littéraire jusqu'au romantisme (et indépendamment des genres): courtoisie, libertinage, libre pensée, baroque, humanisme, classicisme, romantisme, etc.

PR: two of: 3500, 3501, 3502, 3503, 3504, 3506 or one course in that series with a grade of 80% or above

4620 Literary Movement II is French literary history through the study of a movement or trend in literature since realism: realism, naturalism, symbolism, surrealism, existentialism, feminism, postmodernism, the absurd, nouveau roman, roman du terroir, etc.

4620 Mouvement littéraire II histoire de la littérature d'expression française à travers l'étude d'un mouvement ou d'un courant littéraire à partir du réalisme (et indépendamment des genres): réalisme, naturalisme, symbolisme, surréalisme, existentialisme, féminisme, postmodernisme, absurde, nouveau roman, roman du terroir, etc.

PR: two of: 3500, 3501, 3502, 3503, 3504, 3506 or one course in that series with a grade of 80% or above

4630 Literary Genre I is a study of a genre from French-literature of different periods to be chosen among the traditional or canonical forms (poetry, narrative fiction, theatre): poem, epic, novel, short story, novella, tragedy, comedy, drama.

4630 Genre littéraire I étude d'un genre littéraire à travers une littérature d'expression française et à travers les siècles; quelques genres dits traditionnels (poésie, romanesque, théâtre): poème, épopée, roman, conte, nouvelle, tragédie, comédie, drame.

PR: two of: 3500, 3501, 3502, 3503, 3504, 3506 or one course in that series with a grade of 80% or above

4640 Literary Genre II is a study of a genre from French-language literature of different periods to be chosen among other literary and popular genres such as: essay, tract, manifesto; memoirs, diary, autobiography; personal writing, fantasy, best sellers, detective novel, spy novel, science fiction, etc.

4640 Genre littéraire II étude d'un genre littéraire à travers une littérature d'expression française et à travers les siècles; les autres genres (littéraires et paralittéraires): essai, pamphlet, manifeste; mémoires, journal, autobiographie; littérature fantastique; paralittérature (best-sellers, policier, espionnage, science fiction, etc.).

PR: two of: 3500, 3501, 3502, 3503, 3504, 3506 or one course in that series with a grade of 80% or above

4650 Literary Criticism - inactive course.

4650 Critique littéraire - cours désactivé.

4651-4659 Special Topics in Francophone Culture are advanced courses on specialized topics in Francophone culture. Subjects to be treated will be announced each year by the Department.

4651 - 4659 Sujets spéciaux en culture francophone cours avancés

protant sur des domaines spécialisés de la culture de la Francophonie. Les sujets traités seront annoncés chaque année par le Département.

PR: French 3100, 3101 and one other third-year French course

4660 Literary Theory - inactive course.

4660 Théorie littéraire - cours désactivé.

4820-4829 Special topics in French-language Literature are advanced courses on specialized topics in literature written in French. Subjects to be treated will be announced each year by the Department.

4820 - 4829 Sujets spéciaux de littérature d'expression française cours avancés portant sur des aspects spécialisés de la littérature d'expression française. Les sujets traités seront annoncés chaque année par le Département.

PR: two of: 3500, 3501, 3502, 3503, 3504, 3506 or one course in that series with a grade of 80% or above

4900 Honours Essay I under the direction of their assigned supervisors, students will select an honours essay topic, prepare a research proposal, and submit a draft of at least one section of the honours essay. Students are expected to meet regularly with their supervisors.

4900 Dissertation I pour la spécialisation en français l'étudiant/e choisira un sujet de recherches en accord avec son directeur ou sa directrice de recherches, préparera une proposition détaillée et remettra un premier jet d'une partie de sa dissertation. Il ou elle devra rencontrer son directeur ou sa directrice de recherches régulièrement.

PR: admission to the honours program in French and permission of the Head of Department

4999 Honours Essay II under the direction of their assigned supervisors, students will complete the writing of their honours essay. Students are expected to meet regularly with their supervisors.

4999 Dissertation II pour la spécialisation en français l'étudiant/e continuera l'écriture de sa dissertation sous la direction de son directeur ou de sa directrice de recherches. Il ou elle devra rencontrer son directeur ou sa directrice de recherches régulièrement.

PR: completion of FREN 4900 with a minimum grade of 70%

10.11.1 Italian

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Italian courses are designated by ITAL.

1000 Elementary Italian I is for beginners in Italian. Introduction to the fundamentals of Italian grammar, with particular attention to the acquisition of basic skills in oral and written communication.

LC: 4
LH: 1

1001 Elementary Italian II is a continuation of Elementary Italian I.

LC: 4
LH: 1
PR: ITAL 1000

2000 Italian Language and Culture (Intermediate Level) I - inactive course.

2001 Italian Language and Culture (Intermediate Level) II - inactive course.

10.11.2 Spanish

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Spanish courses are designated by SPAN.

1000 Elementary Spanish I is an introductory course, grammar, reading and oral Spanish.

1001 Elementary Spanish II is a continuation of Elementary Spanish I.

PR: SPAN 1000

2000 Intermediate Spanish I is a continuation of the basic grammar, reading, and oral Spanish completed in the elementary program.

PR: SPAN 1001

2001 Intermediate Spanish II is a continuation of Intermediate Spanish I.

PR: SPAN 2000

2010 Intermediate Spanish Language Studies will emphasize the development of aural comprehension and oral expression in Spanish in an intensive immersion setting. The course will also include work on written expression and comprehension.

PR: SPAN 1001 or permission of the Head of the Department. Offered only in the context of a study-abroad program in a Spanish speaking country.

2020 Intermediate Hispanic Cultural and Literary Studies will focus on hispanic literary and cultural studies at the intermediate level and in an intensive immersion setting.

PR: SPAN 1001 or permission of the Head of the Department. Offered only in the context of a study-abroad program in a Spanish speaking country.

3000 Spanish Literature of the 18th and 19th Century I - inactive course.

3001 Spanish Literature of the 18th and 19th Century II - inactive course.

3010 Advanced Spanish Language Studies will be similar to SPAN 2010 but at a more advanced level.

PR: SPAN 2001 or permission of the Head of the Department. Offered only in the context of a study-abroad program in a Spanish speaking country.

3020 Advanced Hispanic Cultural and Literary Studies will be similar to SPAN 2020 but at a more advanced level.

PR: SPAN 2001 or permission of the Head of the Department. Offered only in the context of a study-abroad program in a Spanish speaking country.

3100 Spanish Literature of the Golden Age: Poetry and Drama - inactive course.

3101 Spanish Literature of the Golden Age: Prose is a general introduction to the historical and cultural background and development of sixteenth and seventeenth century Spanish prose literature through study of *Lazarillo de Tormes*, *Don Quijote* and *El Buscón*. Special emphasis is laid on the picaresque novel and on the originality of Cervantes and the creation of the first truly "modern" novel.

PR: SPAN 2001

3200 Spanish Literature 20th Century I is a general survey of Spanish literary works of the twentieth century, with a detailed study of representative authors.

PR: SPAN 2001

3201 Spanish Literature 20th Century II - inactive course.

3300 Hispanic Cinema and Culture is a study of selected (subtitled) films by representative film-makers from the Hispanic world. Emphasis will be placed on the cultural and social issues explored in the films and the historical context in which they emerge.

PR: SPAN 2001 or equivalent, or permission of the Head of the Department.

UL: not acceptable towards the second language requirement for the completion of the Bachelor of Arts degree

3400 Spanish Civilization - inactive course.

3401 Latin-American Culture and Civilization explores Latin-American culture and civilization from pre-Columbian times to the present. Particular attention will be paid to the issues of colonization, identity and to the background of the various independence and revolutionary movements in the region.

PR: SPAN 2001 or equivalent, or permission of the Head of the Department

3500 Latin-American Literature I is a survey course on the development of Latin-American literature from pre-Columbian times to the Modernism movement.

PR: SPAN 2001 or equivalent, or permission of the Head of the Department

3501 Latin-American Literature II is a survey of major trends in Latin-American literature since Modernismo and analysis of selected works of prose, poetry and drama.

PR: SPAN 2001 or equivalent, or permission of the Head of the Department

3502 Latin-American Short Story is a survey course on general characteristics and history of the short story. Emphasis will be placed on close reading of stories from different geographical areas, such as Mexico, Cuba, Argentina, Colombia, and the U.S.

PR: SPAN 2001 or equivalent, or permission of the Head of the Department

3600 Spanish American Literature 20th Century I is a study of representative works of Spanish-American literature of the twentieth century.

PR: SPAN 2001

3601 Spanish American Literature 20th Century II - inactive course.

3700 Advanced Spanish I covers oral Spanish, composition and reading of contemporary literary materials; phonetics.
PR: SPAN 2001

3701 Advanced Spanish II is a continuation of Advanced Spanish I.
PR: SPAN 3700

3800-3809 Special Topics in Spanish-language Literature will have the particulars available on the Departmental website.
CO: SPAN 2001 or equivalent but may vary with each new course
CR: currently not applicable but may vary with each new course
PR: SPAN 2001 or equivalent but may vary with each new course

3850-3859 Special Topics in Spanish-language Culture will have the particulars available on the Departmental website.
CO: SPAN 2001 or equivalent but may vary with each new course
CR: currently not applicable but may vary with each new course
PR: SPAN 2001 or equivalent but may vary with each new course

4000 Medieval Spanish Literature I: Verse - inactive course.

4001 Medieval Spanish Literature II: Prose - inactive course.

4200 Nineteenth Century Spanish Novel - inactive course.

4201 Modern Spanish Novel - inactive course.

4500 Twentieth Century Latin-American Novel examines a cross-section of literary currents in 20th century Latin-American narrative prose fiction. The complex interplay of myth and reality is examined in, for example, the novel of the revolution, La novela de la tierra, La novela de dictador, La novela femenina and La novela testimonial.
PR: any Spanish 3000 level course and Spanish 2001 or equivalent, or permission of the Head of the Department

4501 Modernism in Latin-American Literature will examine the genesis and development of this groundbreaking movement from its beginnings in 1885 to its transformation into the avant-garde movement in the first decades of the 20th Century.
CO: any Spanish 3000 level course and Spanish 2001 or equivalent, or permission of the Head of the Department

4502 Modern Latin-American Drama is a study of the characteristics of theatre, its literary and performative aspects, and its relationship to history, culture and society.
CO: any Spanish 3000 level course and Spanish 2001 or equivalent, or permission of the Head of the Department

4503 Contemporary Latin-American Poetry is an exploration of 20th century Latin-American poetry and the complex relationship between its social and poetic components. Among the topics to be studied are subjectivity, authority and gender. The course includes Latino-Canadian poets.
CO: any Spanish 3000 level course and Spanish 2001 or equivalent, or permission of the Head of the Department

4700 Oral and Written Spanish Composition I - inactive course.

4701 Oral and Written Spanish Composition II - inactive course.

4800 Directed Reading Course in Spanish - inactive course.

6900 Reading in Spanish is a graduate service course.
PR: offered only in the context of a study-abroad program in a Spanish speaking country

10.12 Gender Studies

Gender Studies courses are designated by GNDR.

1000 Introduction to Gender Studies (same as the former WSTD 1000) considers gender, gender studies and feminisms as areas of exploration from historical, contemporary, transnational and interdisciplinary perspectives. The aim of this course is to provide a critical framework for thinking about questions relating to gender and other forms of social difference.
CR: the former Women's Studies 1000, the former Women's Studies 2000

2005 Identities and Difference (same as the former WSTD 2005) examines feminist scholarship about the construction of identities and difference in cultural discourses, representation and institutions. This course qualifies as a Research/Writing course.
CR: the former WSTD 2005
PR: GNDR 1000 or the former WSTD 1000

3000 Research Methods in Gender Studies (same as the former WSTD 3000) familiarizes students with basic tools and research skills for feminist enquiry in Gender Studies research. As a requirement of this course, students may be asked to design and carry out a research project.

CR: the former WSTD 3000
PR: GNDR 1000 or the former WSTD 1000

3001 Women Writers in the Middle Ages (same as English 3006, Medieval Studies 3006 and the former WSTD 3001) will study selections from the considerable corpus of women's writing in the Medieval period, as well as issues which affected women's writing. All selections will be read in English translation.
CR: English 3006, Medieval Studies 3006, the former Medieval Studies 3351, the former WSTD 3001

3002-3020 (Excluding 3004, 3005 and 3009) Special Topics in Gender Studies (same as the former WSTD 3002-3020 excluding 3004, 3005 and 3009) will have topics announced by the Department.
CR: the former WSTD 3002-3020 excluding 3004, 3005 and 3009

3005 Feminist Texts, Theories and Histories (same as the former WSTD 3005) is an examination of the development of feminist theories through analyses of key texts and their connections to historical and contemporary debates within feminism.
CR: the former WSTD 3005
PR: GNDR 1000 or the former WSTD 1000 is required and GNDR 2005 or the former WSTD 2005 is recommended

3025 Theories of Gender, Race and Post-Colonialism examines theories, themes and issues that have emerged from, and in response to, post-colonial studies in recent decades. This course focuses particularly on what this body of scholarship contributes to understandings of the roles of gender, race and sexuality in colonialism, as well the comprehension of current social and political realities.
PR: GNDR 1000 or the former WSTD 1000 is required and GNDR 2005 or the former WSTD 2005 is recommended

3100 Gendered Politics of Health (same as the former WSTD 3100) examines intersections of gender and health, recognising these to be politically shaped categories that have direct implications for individual's lives. This course considers the ways that particular conceptualizations of gender, health and well-being are shaped and challenged and considers the role of individuals, institutions and states in structuring opportunities and challenges related to health.
CR: Sociology 4201, the former WSTD 3100
PR: GNDR 1000 or the former WSTD 1000 is required and GNDR 2005 or the former WSTD 2005 is recommended

3710-3720 Special Topics in Gender Studies (same as the former WSTD 3710-3720) are available only as part of the **Harlow Campus Semester**.
CR: the former WSTD 3710-3720

4000 Contemporary Feminist Issues (same as the former WSTD 4000) is an interdisciplinary seminar in Gender Studies that identifies emerging debates in contemporary feminism and analyses complex and contentious issues and how they intersect and disrupt social constructions of gender.
CR: the former WSTD 4000
OR: 3 hour seminar per week
PR: students must normally have completed GNDR 3005 or the former WSTD 3005 or GNDR 3025 and 15 credit hours in other courses applicable to the Gender Studies Major and Minor programs before taking GNDR 4000. In exceptional cases, students without these prerequisites may be accepted, with the approval of the instructor of GNDR 4000 and the Head of the Department.

4005 Feminist Praxis (same as the former WSTD 4005) examines, in considerable depth and detail, connections between feminist theories and activism for social and political change. It examines how social movement activism, including feminism, is mobilized in different historical, cultural and national contexts.
CR: the former WSTD 4005
PR: students must normally have completed GNDR 3005 or the former WSTD 3005 or GNDR 3025 and 15 credit hours in other courses applicable to the Gender Studies Major and Minor programs before taking GNDR 4000. In exceptional cases, students without these prerequisites may be accepted, with the approval of the instructor of GNDR 4005 and the Head of the Department.

10.13 Geography

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

It is strongly recommended that all 2000-level core courses be completed before registration in 3000-level courses. All 2000-level core courses must normally be completed prior to registration in a 4000-level course.

Specific prerequisites for courses may be waived only with permission of the instructor and the Head of Department.

Geography courses are designated by GEOG.

1050 Geographies of Global Change provides perspectives on the major geographical challenges and changes facing the contemporary globe, including: climate and environmental change, sustainability, human development, economic globalization, cultural change, and population and migration. Using the integrative skills of geographical analysis, the course prepares students for advanced study in geography and citizenship in the modern world.

CR: credit may not be obtained for Geography 1050 and any one of Geography 1000, 1001, the former 1010, the former 1011

2001 Cultural Geography is an introduction to the study of culture in geography, emphasizing both the history of the field from classic studies of landscapes to contemporary scholarship and themes of recent importance. These include the relationship between nature and culture: imperialism and colonialism; place, identity, and power; and global cultures of commodities, media, and tourism.

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

2102 Physical Geography: The Global Perspective is a study of form, process, and change in natural systems at and near the surface of Earth, viewed as human environment. Emphasis is on global and regional scales in the systematic study of climate, water, landforms and vegetation.

CR: the former GEOG 2100, the former GEOG 2101

LH: 3

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

2105 Canada's Natural Environments and Landscapes examines the characteristics and development of the natural environments and landscapes of each of the major regions of Canada. The diversity of natural environments is illustrated through discussion of the climatic, hydrological, biogeographical, and geomorphic processes responsible for shaping the land. The impact of both gradual and rapid (catastrophic) changes on local, national, and global scales will be emphasized. This course is complementary to GEOG 3405; students are encouraged to take both.

CR: the former GEOG 3100

2195 Introduction to Geographic Information Sciences is an introduction to the fields of cartography, remote sensing, and geographic information systems (GIS). Geographic information collection, representation and analysis methods are the topics for the course. An emphasis is given to applications of maps and satellite images.

2226 Field Methods I is designed to introduce students to the practice of geography in the field. Field techniques will focus on the observation, identification, and collection of primary data. This course provides a basis for further study in advanced geography courses.

CH: 1

PR: GEOG 1050 or permission of the instructor

2290 Historical Geography of Newfoundland - inactive course.

2302 Issues in Economic Geography covers basic issues and ideas in economic geography. The development of a regional economy will be related to underlying economic, cultural and physical factors.

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

2425 Natural Resources is an introduction to the concepts of natural resources, environment and conservation: the nature and distribution of natural resources; methods of use, allocation and development of natural resources and the role of various physical, social, economic, political and technological factors influencing decision-making about resources.

CR: the former GEOG 3325

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

2495 Regional Geography of Labrador is a holistic study of the Geography of Labrador, including the terrain, geology, Quaternary history, climate, vegetation, and fauna; the cultural geography of Labrador, including Innu, Inuit, Métis, and Settler people and communities; economic activities in Labrador, and the interaction of the Labrador economy within Newfoundland, Canada, and globally; the management of physical and human resources; and the geographic techniques used to investigate and understand Labrador's unique Geography.

CR: the former GEOG 3495

3000 Population Geography - inactive course.

3010 The Evolution of Urban Form - inactive course.

3110 Physical Geography of the Watershed - inactive course.

3120 Climatology is an analysis of the energy and moisture budgets and circulation of the atmosphere at the macro-scale, together with an examination of resulting climate characteristics for selected world regions.

LH: 3

PR: GEOG 2102, Mathematics 1000

3140 Biogeography is the application of ecological concepts to the study of the spatial variations in the distribution of plants and vegetation. Laboratory work emphasizes terrestrial flora of Newfoundland.

LH: 3

PR: GEOG 2102, Mathematics 1000

3150 Geomorphology is a study of the relationships between geomorphic processes and landforms. Practical work will involve collection of data and samples in the field and analytical laboratory techniques.

CR: the former Earth Sciences 3700

LH: 3

PR: GEOG 2102 or Earth Sciences 2905; Mathematics 1000

3202 Introduction to Cartography is an introduction to the field of cartography and its different components, including: projections, generalization, cartographic design, data classification, topographic and thematic mapping.

CR: the former GEOG 2200

LH: 3. Laboratory exercises will utilize Geographic Information Systems software.

PR: 6 credit hours at the 2000-level

3210 History of Map Making is an examination of the major characteristics of the evolution of the art and science of map-making from the earliest time to the present. Emphasis is on the development and application of theory and method in the cartographic process.

3222 Research Design and Quantitative Methods in Geography is an introduction to principles of research design, and to the use of quantitative techniques. This course provides students with a basic understanding of data collection, entry, and analysis and presentation skills most commonly used by geographers. Practical, computer-based exercises are an essential part of the course. It is strongly recommended that this course be completed before registration in a 4000-level geography course.

CR: the former GEOG 2220

LH: 3

PR: GEOG 1050, or the former GEOG 1011, or 1001 and at least 9 credit hours from GEOG 2001, 2102, 2195, 2302, 2425

3226 Field Methods II is designed to provide students with field experience at a more advanced level, building on GEOG 2226. In this course, the students will experience the field research process from the initial observation of a site through research and analysis to completion of a written report.

CH: 2

PR: GEOG 2226

3230 Field Course will normally be taken by Geography Majors just prior to the Fall Semester of their third year. The course will be held off campus and is designed to provide experience in instrument and field techniques in physical, economic and cultural Geography.

3250 Introduction to Remote Sensing is an introduction to digital image analysis. Will include many aspects of pre-processing and processing of airborne and satellite imagery.

LH: 3

PR: GEOG 2195, Mathematics 1000

3260 Introduction to Geographic Information Systems (GIS) introduces the principles of GIS as they relate to spatial data input, structures, management, integration, analysis and output. Laboratory exercises permit students to use GIS software and explore how it can be applied to a wide variety of disciplines and real world issues.

CR: the former GEOG 4251

LH: 3

PR: GEOG 2195, Mathematics 1000

3303 Location Theory - inactive course.

3320 Fisheries Geography - inactive course.

3340 Techniques of Regional Analysis - inactive course.

3350 Community and Regional Planning and Development introduces students to regional planning and development theories, techniques and approaches. Understanding of networks of development actors at community and regional scales, methods of delineating regions, links between theory and practice in planning and development. Focus on Canadian experiences and a sustainable development perspective.

PR: GEOG 2302 or permission of the instructor

3405 Canada is a study of the regional geography of Canada, with emphasis on social, economic and political characteristics. The course is a core course in the **Canadian Studies Major** program. This course is complementary to GEOG 2105; students are encouraged to take both.

CR: the former GEOG 2400

PR: GEOG 2001, 2102 and 2302; or 6 credit hours in courses for the Major in Canadian Studies; or permission of the instructor and the Head of the Department

3425 Geographical Analysis of Resources is the geographic study of

contemporary North American issues in resources and their management. Emphasis will be placed on air and water quality issues, lands and forest resources, energy resources, and coastal zone resources. A number of substantive areas in resource analysis will be considered, including resource appraisal, landscape evaluation, and environmental impact assessment.

CR: the former GEOG 4400
PR: GEOG 2425 or equivalent

3510 Geography of the Seas is an introductory course in marine science and management treating the world's oceans as a geographic unit. The course covers basic physical, geological and biological marine science and applications of basic science to management issues facing the oceans today.

PR: GEOG 2102, 2425, or permission of instructor

3610 Cultural Landscape is an investigation of a principal subject of study in cultural geography; the human imprint on the land. The course will include a detailed consideration of the origin of landscape studies in geography; newer approaches emphasizing visual and representational aspects of landscapes; and several diverse case studies, historical and contemporary, concerned with struggles over their definition.

PR: GEOG 2001

3620 Migration and Colonization is a study of population movements associated with colonization and frontier development.

PR: GEOG 2001

3701 Urban Geography is an examination of the evolution, structure and dynamics of cities and urban systems.

PR: GEOG 2302

3710-3729 Special Topics in Geography will have topics to be studied announced by the Department.

PR: available only as part of the Harlow Campus Semester

3800 Political Geography is a geographic study of political ideas and processes. The course will consist of a historical discussion of the origins and trajectory of geopolitics, from the beginning of the 20th century to contemporary uses. Key themes in political geography, including strategy and statecraft, decolonization and nationalism, global technologies, and environmental security will be discussed.

PR: GEOG 2001

3900-3909 Special Topics in Geography will have topics to be studied announced by the Department.

PR: permission of the instructor and the Head of the Department

3990-3999 Special Topics in Geography will have topics to be studied announced by the Department.

PR: permission of the instructor and the Head of the Department.

4010 Cultural Geography is concepts and methods in the study of cultural geography.

PR: GEOG 2001 and at least one of GEOG 2290, 3000, 3010, 3610, 3620, 3800. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4015 Cultural Resource Management (same as Archaeology 4015 and Folklore 4015) is a study of cultural resource management: the definition and recognition of cultural resources, the application of policy in managing cultural resources, and the identification and consideration of contemporary issues in cultural resource management.

CR: Archaeology 4015, Folklore 4015

OR: three hours of seminar per week

PR: it is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses

4120 Applied Climatology - inactive course.

4141 Glacial Environments is an examination of the landforms, processes and sediments of past and present glacial environments. Course work will stress broad applications to environmental science.

CR: the former Earth Sciences 4701

LH: 3 hours of laboratory/field work per week

PR: 6 credit hours in physical geography courses at the 3000-level; or permission of Head of Department. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4150 Environmental Change and Quaternary Geography (same as Archaeology 4150) covers methods of reconstructing Quaternary environments; effects of Quaternary environmental change on landforms, with special reference to North America; development and characteristics of glacial and non-glacial climates.

CR: Archaeology 4150

LH: 3

PR: 6 credit hours in physical geography courses at the 3000-level; or permission of Head of Department. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4190 Coastal Geomorphology is an advanced course in geomorphology of coastal regions in all climate zones. Covers reflective and dissipative beaches, barrier systems, coastal sand dunes, deltas, tidal flats, estuaries, reefs, bedrock and karst shorelines, ice-dominated shorelines, and influence of climate change and sea level change on coastal environments.

CR: the former GEOG 4180

LH: 3

PR: GEOG 3150 or permission of instructor. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4202 Advanced Cartography will provide students with advanced knowledge in computer-based cartography required to produce final geographic datasets and maps.

LH: 3. Laboratory exercises will utilize Geographic Information Systems software.

PR: GEOG 3202 or permission of instructor. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4220 Advanced Quantitative Methods - inactive course

4250 Environmental Image Analysis is remote sensing techniques applied to various environmental problems. Techniques include selection of the system for data acquisition (airborne or satellite imagery), planning of a ground truth survey, and of data processing. Applications to high and low density urban areas, agricultural, forestry, coastal zone, oceanic, and environmental monitoring.

LH: 3

PR: GEOG 3250. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4261 Advanced Methods in Geographic Information Systems (GIS) explores the nature and use of advanced GIS algorithms, discrete and continuous data structures, computational methods and analysis of error for the purpose of analysing and modelling spatial patterns and processes. Laboratory exercises permit students to use GIS software to explore as well as develop problem solving and modelling skills for a wide variety of real world applications.

LH: 3

PR: GEOG 3260; Mathematics 2050; Computer Science 1710; (or equivalent, with permission of instructor and the Head of Department). It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4290 Geographic Information Sciences Practicum is practical experience with the geographic information sciences fields of cartography, remote sensing or geographical information systems. Students will serve as interns in governmental, institutional or private agencies, or in non-profit organizations.

CO: GEOG 4202, 4250, 4261, and be enrolled in the Diploma in Geographic Information Sciences

LH: six hours per week or a total of 72 hours of research or laboratory work

OR: six hours per week or a total of 72 hours of research or laboratory work

PR: GEOG 4202, 4250, 4261, and be enrolled in the Diploma in Geographic Information Sciences. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4300 World Fisheries: Current Discourse and Future Directions is a seminar course on the key concepts, principles and challenges in fisheries resources worldwide. Topics of discussion include the state of world fisheries, analysis of various management approaches and tools, and future scenarios for world fisheries.

PR: 6 credit hours in Geography at the 3000-level or permission of Head of Department. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4320 Regional Development Seminar is focussed on understanding the region and regional development in theoretical terms and in a policy context. The central question of the course is: how do we understand the region and regional development in a globalizing world? What are the policy options for people interested in making regional development work in a global economy? The case studies will cover both the developing and the developed world.

PR: GEOG 2302 or permission of Head of Department. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4405 Outdoor Recreational Resources and Planning is an introduction to the major themes and techniques in the study of outdoor recreation. A theoretical framework will provide a base for the evaluation of the complex issues involved in managing a physical resource for recreational purposes. North American examples will be emphasized.

CR: GEOG 4909

LH: 3

PR: GEOG 2425 or the former GEOG 3325. It is strongly recommended that Geography 3222 and 3226 be completed before registration in

4000-level courses.

4410 Research Seminar in Resources offers the opportunity to undertake advanced work in a number of resource sectors such as energy, fisheries, forests, lands, air and water. The emphasis will be on learning through experience. Students will be expected to initiate and complete suitable research projects in close consultation with faculty involved.

PR: GEOG 2425 or the former GEOG 3325. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4600 Historical Geography is a study of concepts and methods in historical geography. The field concerned with geographies of the past and their relation to the present. Themes will include the history of geography as a discipline, particularly its relevance to imperialism and state power; changing relationships between humans and the natural environment; and histories of the spaces of social life and human identity.

PR: GEOG 2001 and at least one of GEOG 2290, 3000, 3010, 3610, 3620, 3800. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4640 Historical Geography of Canada (formerly GEOG 3240) explains the geographical dimensions of Canada, past and present, in terms of spatial origins and processes of geographical change in the population, economy and landscape of the country. Themes will include: changing perceptions of the environment; the historical demography of immigration and initial settlement; the reconstruction of past regional geographies; the sequent occupation of particular regions; the human alteration of the natural landscape.

CR: the former GEOG 3240

PR: GEOG 2001 and at least one of GEOG 2290, 3000, 3010, 3610, 3620, 3800; or 12 credit hours in core courses for the Major in Canadian Studies. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4650 Conservation in Biology and Geography (same as Biology 4650) is an examination of how biological and geographical principles can be applied to conserving biological diversity in the natural world under conditions of exploitation and habitat loss. Special emphasis will be given to relevant provincial examples.

CR: Biology 4650

OR: 3 hours of seminar/discussion group per week

PR: 30 credit hours in either Biology or Geography and permission of the course co-ordinator. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4700 Seminar in Advanced Urban Geography will provide senior students with the opportunity to immerse themselves in the analysis of a small number of problems related to contemporary urban structure and growth.

PR: GEOG 3701. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4900-4918 Special Topics in Geography will have topics to be offered announced by the Department of Geography.

PR: permission of the instructor and the Head of the Department of Geography. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4919 Integrative Practicum in Geographic Information Sciences is an applied or research project integrating aspects of cartography, geographical information systems and remote sensing. Students will have access to the GISciences Research Laboratory to complete their project. This is the capstone course for the students registered in the Diploma in Geographic Information Sciences program. It will involve the knowledge and experiences acquired over the years in the program.

CO: GEOG 4202, 4250, 4261, and be enrolled in the Diploma in Geographic Information Sciences

LH: six hours per week or a total of 72 hours of individual research or laboratory work

OR: six hours per week or a total of 72 hours of individual research or laboratory work

PR: GEOG 4202, 4250, 4261, and be enrolled in the Diploma in Geographic Information Sciences. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4990 Nature of Geography is an examination of the major philosophical issues in the nature of geography and recent changes in geographical method. Particular emphasis will be placed on the implications of the quantitative, systems, behavioural and ecological approaches in geography, the use of models, the place of theory and the study of process in geography.

PR: primarily intended for Honours students. It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses.

4999 Dissertation Honours Degree is required of the Honours degree.

PR: It is strongly recommended that Geography 3222 and 3226 be completed before registration in 4000-level courses. Admission to the Honours program.

10.14 German

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

The Department offers several courses in Germany during the Spring/Summer semester. See the Departmental web page at www.mun.ca/german for details on the German Field School.

German courses are designated by GERM.

1000 Elementary German I is intended to give beginners a basic knowledge of the spoken and written language and culture of the German-speaking countries.

CR: GERM 1002

1001 Elementary German II is a continuation of Elementary German I with the same basic text.

CR: GERM 1003

PR: GERM 1000

1002 Elementary Business German I is a course intended to give beginners a basic knowledge of spoken and written German with an emphasis on developing skills pertinent to business and commerce.

CR: GERM 1000

1003 Elementary Business German II - inactive course.

2010 Intermediate German I is a completion of the fundamentals of the German language, with a continued strong cultural component.

PR: GERM 1000 and GERM 1001 or equivalent

2011 Intermediate German II is a grammar review and introduction to literature.

PR: GERM 2010 or consent of the Head of the Department

2012 German Reading and Aural Comprehension for Business and Commerce - inactive course.

2030 Reading German I - inactive course.

2031 Reading German II - inactive course.

2510 Intermediate Composition and Conversation I - inactive course.

2511 Intermediate Composition and Conversation II is a continuation of Intermediate Composition and Conversation I.

OR: includes a 4-week field school in Germany in August, which lengthens the time frame for the course by approximately two weeks

PR: GERM 1001 and consent of the Head of the Department

2900 Introduction to German Culture I is a study of the major cultural trends and movements of German-speaking Europe to the beginnings of the modern age. Lectures are given in English. This course qualifies as a research/writing course.

2901 Introduction to German Culture II is a study of the major cultural trends and movements of German-speaking Europe in the modern age. Lectures are given in English. This course qualifies as a research/writing course.

2910 Myths of the North is a study of the major myths of the Celtic and Germanic peoples as embodied in the literary and artistic remains of the early history of Northern Europe, and of the influence of these myths on later art and literature. Lectures and readings in English.

3000 German Film I is a survey of German film from the beginnings to 1945.

3001 German Film II is a survey of West German film from 1945 to 1990.

3002 Post-Wall Cinema is a study of German cinema from 1990 to the present. It addresses a number of issues that are clearly identified with a post-Wall, unified Germany, such as German unification itself, the new German comedy of the 1990's, the transnationalization of German cinema, the treatment of the Nazi and the Communist past, the rediscovery of the social as a narrative focus, and on the evolving cinematographic directions taken by contemporary German film. The movies are subtitled and lectures and readings are in English.

3003 DEFA The Cinema of East Germany is an examination of East German cinema through its feature films addressing issues in the context of Germany's divided status and its split screen from 1946 to 1990.

3004-3009 Special Topics in German Studies I will have topics to be studied announced by the Department.

3005 West to East: Aspects of the German Intellectual Influence on

Russia (same as History 3005 and Russian 3005) examines the fluidity of ideas across geo-political borders, languages and cultures, by exploring how the German intellectual discourse was received and reinterpreted by Russians in their literary, artistic and cultural dialogue. Ideas about the Romantic Hero become conflated with theories involving the Will, the Nietzschean Superman and the Proletarian Revolutionary, personified and embodied in what some scholars characterize as political/cultural Gods (Lenin, Stalin, Hitler).

CR: History 3005, Russian 3005

3010 Advanced German I aims at a high level of accomplishment in German pronunciation, composition and translation through practice in the spoken language, written exercises and the reading of more advanced literary material.

PR: GERM 3010 or consent of the Head of the Department

3011 Advanced German II is a continuation of Advanced German I.

PR: GERM 3010 or consent of the Head of the Department

3510 Advanced Composition and Culture aims to increase accuracy and fluency in written and spoken German with emphasis on culture.

OR: includes a 4- week field school in Germany in August, which lengthens the time frame for the course by approximately two weeks
PR: GERM 1001 and consent of the Head of the Department

3511 Advanced Composition and Conversation aims to increase accuracy and fluency in written and spoken German with emphasis on grammar review.

OR: includes a four week field school in Germany in August, which lengthens the time frame for the course by approximately two weeks
PR: GERM 1001 and consent of the Head of the Department

3900 Survey of German Literature I is a study of the chief periods of German literature based on works of representative authors. A general survey from the earliest works to 1805.

PR: GERM 2011 or the consent of the Head of the Department

3901 Survey of German Literature II is a study of the chief periods of German literature based on works of representative authors. A general survey from 1805 to the present.

PR: GERM 2011 or the consent of the Head of the Department

3902 Business Culture in the German-Speaking World familiarizes students for a work-term or internship in a German speaking environment. It covers business practices and culture in addition to business etiquette and protocols.

PR: GERM 2012 or the consent of the Head of the Department

3911 Faust and the Magus Tradition is a study of the legend of Faust's pact with the devil from the Middle Ages to the present in art, music and literature, and its influence on various cultures in both Europe and America. Lectures and readings in English.

3912 Modern German Literature in Translation I (Pre-1945) is a study of the works of some major modern German authors. Lectures and readings in English.

3913 Modern German Literature in Translation II (Post-1945) is a study of the works of some major modern German authors. Lectures and readings in English.

3914 German Women Writers in English Translation studies representative works by prominent German, Austrian, and Swiss women writers from the 19th-century to the present day, their place in German literary history, and the impact of their individual voices.

PR: the former Women's Studies 2000 or permission of the Department Head

3915 National Socialist Ideology and Culture examines German culture within the context of National Socialist era. Special attention will be focussed on how language, art and literature were used in National Socialist propaganda.

4000 German Literature of the Eighteenth Century I is a study of the historical and cultural background of the eighteenth century, of Enlightenment and Storm and Stress. Reading and discussion of representative works with emphasis on Lessing, Goethe and Schiller. Taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4001 German Literature of the Eighteenth Century II is a study of the historical and cultural background of the eighteenth century, of Storm and Stress and Classicism. Reading and discussion of representative works with emphasis on Goethe and Schiller. Taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4010 Advanced Stylistics I is specialized study of the more complex areas of German grammar, style, and idiomatic usage, involving intensive practice in composition and oral expression, and focussed on detailed work with contemporary cultural materials such as newspapers, television, and film. This course is taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4011 Advanced Stylistics II is a continuation of Advanced Stylistics I. This course is taught in German.

PR: GERM 4010 or consent of the Head of the Department.

4100 German Literature of the 19th Century I is a study of the leading exponents of nineteenth-century literature, including the background of Romanticism and the young Germany movement. Taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4101 German Literature of the 19th Century II is a study of the leading exponents of nineteenth-century literature, including the background of Poetic Realism and Naturalism. Taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4200 German Literature of the Twentieth Century I traces the important literary movements up to 1945, using a number of representative authors. Reading of selected dramas, novels, poems and short stories. This course is taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4201 German Literature of the Twentieth Century II traces the important post 1945 literary movements, using a number of representative authors. Reading of selected dramas, novels, poems and short stories. This course is taught in German.

PR: GERM 3011 or the consent of the Head of the Department

4300 Middle High German Language and Literature I is an introduction to the German language, literature and culture of the eleventh to fifteenth centuries: historical linguistics, Middle High German grammar and the court epic.

PR: one of German 2011, 2511, 3011 or the consent of the Head of the Department

4301 Middle High German Language and Literature II - inactive course.

4400 Early Modern German Literature I is reading, interpretation and critical analysis of representative works of German literature written in the Age of Reformation and the early Baroque period.

PR: one of German 2011, 2511, 3011 or the consent of the Head of the Department

4401 Early Modern German Literature II - inactive course.

4802-4825 Special Topics in German Studies II will have topics to be studied announced by the Department.

4998 Comprehensive Examination for Honours Students is the comprehensive examination required for honours students.

4999 Honours Essay for Honours Students is required as part of the Honours program.

PR: admission to the Honours program

10.14.1 Russian

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

The Department offers several courses in Russian during the Spring/Summer Semester. See the Departmental web page at www.mun.ca/german/russian/course_descriptions.php for details on the Russian Summer Program.

Russian courses are designated by RUSS.

1000 Elementary Russian I is a course intended to give beginners the fundamentals of Russian grammar and a basic knowledge of the spoken and written language.

1001 Elementary Russian II is a continuation of Elementary Russian I with the same basic text and a reader.

PR: RUSS 1000 or equivalent

2010 Intermediate Russian I continues the linguistic study begun in the first year and to introduce students to Russian texts from literature or newspapers.

PR: RUSS 1000 and 1001 or equivalent

2011 Intermediate Russian II is a continuation of Intermediate Russian I.

PR: RUSS 1000 and 1001 or equivalent

2030 Russian for Reading I - inactive course.

2031 Russian for Reading II - inactive course.

2510 Intermediate Composition and Conversation I increases fluency in speaking and writing Russian.

2511 Intermediate Composition and Conversation II is a continuation of RUSS 2510.

2600 Russian Literature in Translation: Nineteenth Century is a study of selected works of Russian authors including Pushkin, Lermontov, Gogol, Turgenyev, Tolstoy, Dostoyevsky, Chekhov. This course qualifies as a Research/Writing course.

UL: may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language

2601 Russian Literature in Translation: Twentieth Century is a study of selected works of Russian authors of the pre-revolutionary, Soviet and post-Soviet periods. This course qualifies as a Research/Writing course.

UL: may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language

2900 Russian Culture I is a study of the evolution of Russian culture and Russian intellectual history until 1917. Lectures regularly supplemented by examples of Russian art, music and film. Lectures are given in English. This course qualifies as a Research/Writing course.

UL: may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language

2901 Russian Culture II is a study of the evolution of culture in the USSR and during the post-Soviet period. Insights into the social and political character of pre- and post-revolutionary Russia. Lectures regularly supplemented by examples of Russian art, music and film. Lectures are given in English. This course qualifies as a Research/Writing course.

UL: may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language

3000-3009 (Excluding 3005) Special Topics in Russian Studies will have topics to be studied announced by the Department.

3005 West to East: Aspects of the German Intellectual Influence on Russia (same German 3005 and History 3005) examines the fluidity of ideas across geo-political borders, languages and cultures, by exploring how the German intellectual discourse was received and reinterpreted by Russians in their literary, artistic and cultural dialogue. Ideas about the Romantic Hero become conflated with theories involving the Will, the Nietzschean Superman and the Proletarian Revolutionary, personified and embodied in what some scholars characterize as political/cultural Gods (Lenin, Stalin, Hitler).

CR: German 3005, History 3005

UL: may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language

3010 Advanced Russian I is an advanced study of literary texts and grammar, composition and translation with practice in the spoken language.

PR: RUSS 2010 and 2011

3011 Advanced Russian II is a continuation of Advanced Russian I with the reading and discussion of selected texts from Russian short stories, magazines and newspapers.

PR: RUSS 2010 and 2011

3023 Post-Soviet Russia: Media and Film examines visual media with attention paid to the embedded cultural discourse that can only be understood with references to Russian history, language, and cultural identity. Liberated from communist ideology following the collapse of the Soviet Union, Russian film-makers refused to construct a bright future. Instead they portrayed the reality surrounding them for the first time without ideological constraints. These explorations, in turn, will raise certain questions about visual media in post-Soviet society.

UL: may not be used as part of the Faculty of Arts requirement of 6 credit hours in a second language

3900 Survey of Russian Literature I - inactive course.

3901 Survey of Russian Literature II - inactive course.

3910 The Post-Soviet Era - inactive course.

4001-4010 Special Topics in Russian will have topics to be studied announced by the Department.

4100 Russian Literature of the Nineteenth Century I is a study of major Russian authors, including Pushkin, Lermontov, and Gogol.

PR: one of RUSS 2011, 2511, 3011, or permission of the Head of the Department

4101 Russian Literature of the Nineteenth Century II - inactive course.

4200 Russian Literature of the Twentieth Century I - inactive course.

4201 Russian Literature of the Twentieth Century II is a study of major Russian authors of the Soviet period including Sholokhov, Pasternak, Evushenko, and Solzhenitsyn.

PR: one of RUSS 2011, 2511, 3011, or permission of the Head of the Department

4800 Special Topics in Russian Studies I will have topics to be studied announced by the Department.

4801 Special Topics in Russian Studies II will have topics to be studied announced by the Department.

10.15 Greek

For Greek course descriptions see under Classics.

10.16 Greek and Roman Studies

For Greek and Roman Studies course descriptions see under Classics.

10.17 History

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

History courses are designated by HIST.

1009 Issues in Ancient and Medieval History will introduce students to the methodology of studying ancient and/or medieval history through a close examination of textual and material remains. The course will be taught around a particular theme and/or historical period each year. This course qualifies as a research and writing course.

CR: cannot receive credit for more than two first-year courses in History

1010 The North Atlantic in the Age of Expansion, 1492-1776 is a thematic examination of European imperial expansion into the North Atlantic and the Americas, starting with the discoveries of Columbus and concluding with American Independence. This course qualifies as a research/writing course.

CR: cannot receive credit for more than two first-year courses in History

1011 Europe and the Wider World, 1750-1914 is a thematic examination of the political, economic, social and cultural developments in Europe and the wider world from the French Revolution to World War I. This course qualifies as a research/writing course.

CR: cannot receive credit for more than two first-year courses in History

1012 The World in the Twentieth Century will examine some of the major themes in world history since 1914. This course qualifies as a research/writing course.

CR: cannot receive credit for more than two first-year courses in History

1013 Issues in Canadian History will examine the historical context for various contemporary problems being experienced by Canadians. This course qualifies as a research/writing course.

CR: cannot receive credit for more than two first-year courses in History

1014 Issues in United States History will examine several historical themes or problems in the history of the United States. This course qualifies as a research/writing course.

CR: cannot receive credit for more than two first-year courses in History

1015 Ideas and Society in the West introduces students to early modern western history (1500 - 1800) through the study of original texts. It will combine lectures on the historical background to the texts, discussion of them and analysis of their meanings in assigned essays. This course qualifies as a research/writing course.

CR: cannot receive credit for more than two first-year courses in History

1070 A History of Canada's Native Peoples - inactive course.

2020 Introduction to Ancient History (same as Classics 2025) is an introduction to the history of ancient city-states, kingdoms and empires, including economic, social, political and cultural developments.

CR: Classics 2025

2031 Ancient Asian History is a study of the history of ancient India, China, and Japan with emphasis on the way of life of the people, their customs, traditions, art and heritage.

2034 History of the Hellenistic World (same as Classics 2020) is a survey of the history of the Mediterranean world and the Near East from the death of Alexander the Great in 323 BC until the incorporation of the Kingdom of Egypt in the Roman Empire in 30 BC. Particular attention is given to the influence of the new monarchies on political, social and cultural developments in both Greek and non-Greek communities.

CR: Classics 2020

2035 History of Classical Greece (same as Classics 2035) is a survey of Greek history from the Bronze Age to the death of Alexander the Great, with special reference to the social and political institutions of the fifth century B.C.

CR: Classics 2035

2041 History of the Roman Republic same as Classics 2041) is a survey of Roman history from the early monarchy to the death of Julius Caesar, with special reference to the society and politics of the late Republican period.

CR: Classics 2041, the former Classics 2040, the former HIST 2040

2042 History of the Roman Empire (same as Classics 2042) is a survey of Roman history from the death of Julius Caesar to the rise of Constantine, with special reference to the society and politics of the early Imperial period.

CR: Classics 2042, the former Classics 2040, the former HIST 2040

2050 Introduction to the Medieval Middle East provides an introduction to the medieval Middle East (330-1453). Students will examine the Byzantine Empire, the Sasanian Empire, and the various Islamic Empires, as well as the minority groups living under these empires, including the Coptic, Armenian, and Syriac communities.

2110 North Atlantic History Since 1820 is a survey of the relations among the regions of the North Atlantic since 1820. Emphasis will be placed on social and economic history.

2130 Seafaring Places and Seafaring Peoples: An Introduction to Oceanic History 1650-1850 is a study of the places and people involved in maritime activities between Europe and Asia and in India, south-east Asia, China and Japan during the period of European expansion to the region.

2200 Canadian History to Confederation, 1867 is a survey of Canadian History to Confederation, 1867

2210 Canada Since 1867 is a survey of Canadian history since Confederation.

2300 Introduction to Modern European History, 1500-1789 is an introduction to the main issues and problems in early modern European history with an emphasis on the political, social, economic and cultural developments from the sixteenth to the eighteenth century.

2310 Europe in the Nineteenth Century, 1789-1914 is a survey of the economic, social, political and cultural developments of Europe from 1789-1914.

2320 Medieval Europe to 1050 (same as Medieval Studies 2001) is a survey of the economic, social, political and cultural developments of the early Middle Ages.

CR: Medieval Studies 2001, the former HIST 2030

2330 Medieval Europe, 1050 to the Reformation (same as Medieval Studies 2002) is a survey of the economic, social, political and cultural developments of Europe in the high and late Middle Ages.

CR: Medieval Studies 2002, the former HIST 2030

2340 European Urban History examines the development of urban networks and the growth of specific towns and cities in early modern and modern Europe. We will also study how these centres were perceived, and the roles of public spaces and public festivals. Much of this course is devoted to examining the conditions found in urban centres and the impact on local inhabitants. The course concludes with a study of nineteenth century urban boosterism.

PR: at least 3 credit hours in History

2350 Europe in the Twentieth Century (same as European Studies 2000, Political Science 2990, and the former Political Science 2350) examines social, economic, and political changes from 1918 to the present including the collapse of monarchies, the emergence of mass politics, fascism and totalitarianism, World War II, postwar reconstruction and the welfare state, European integration, and Europe in the postwar economic and political order. The course will examine Britain, France, Germany, and Italy, and particularly the European Union. Special attention will be paid to the demise of class politics and the impact of postwar affluence.

CR: European Studies 2000, Political Science 2990, the former Political Science 2350

2400 A History of Atlantic Canada Since 1500 is a history of the peoples and provinces of Atlantic Canada from the time of first European contact with First Nations.

CR: the former HIST 3100

2500 The Twentieth Century I is a study of the world-wide impact of the main events and developments in the age of global interdependence.

CR: the former HIST 3700

2510 The Twentieth Century II is an historical analysis of the main issues in the contemporary world since 1945.

CR: the former HIST 3710

2582 Principles of Historical Archaeology (same as Archaeology 2582) will introduce students to historical archaeology, with special reference to the North Atlantic, 1000 to 1900 AD. The archaeology of specific sites will be examined in order to raise issues about theory and method. Students will be introduced to palaeography; historic maps; documentary archaeology; the survey, excavation and analysis of complex sites; material culture and subsistence studies; cultural resource management and theoretical approaches including historical anthropology, ethnohistory, world systems and consumer studies.

CR: Archaeology 2582, the former Archaeology 3582, the former History 3530

PR: Archaeology 1030

2600 History of the United States of America to 1865 is a survey of the history of the United States of America from the origins of the independence movement to the Civil War.

CR: the former HIST 3230

2610 History of the United States of America Since 1865 is a survey of the history of the United States of America since the Civil War.

CR: the former HIST 3240

2665 Sickness and Health in Western Society examines changing understandings of disease causation and how the human body functions, the evolution of formal medical education, and the rise of medical institutions. Examples of fine art, literature, and popular culture will be integrated into lectures and seminars to help provide a comprehensive overview of what it has been like to be ill and well over the last three millennia.

2700 Art History Survey I (same as Visual Arts 2700) is the history of art from prehistoric times to the Renaissance.

CR: Visual Arts 2700

2701 Art History Survey II (same as Visual Arts 2701) is the history of art from the Renaissance to the twentieth century

CR: Visual Arts 2701

2760 An Introduction to Women's Gendered History provides an introduction to gender studies in history. This course examines women's experience in the Western past with a view to complexities sometimes missed. It takes the gendering of history as a means to explore the significance of historical understanding in the ways in which we come to know the world.

3000 Medieval Books (same as English 3002, Medieval Studies 3002, Religious Studies 3000) is an examination of the development and role of the manuscript book during the Middle Ages. Topics covered will include book production and dissemination; authors, scribes and audiences; and various kinds of books (e.g. glossed Bibles, anthologies, books of hours, etc.) and their uses.

CR: English 3002, Medieval Studies 3000, Religious Studies 3000

PR: Medieval Studies 2000, 2001 or 2002 or permission of the instructor

3005 West to East: Aspects of the German Intellectual Influence on Russia - inactive course.

3011-3019 Special Topics in Ancient and Medieval History are specialized studies in Ancient and Medieval history. Topics to be studied will be announced in the Department of History brochure.

CR: HIST 3803, HIST 3016

3020 Art, Architecture and Medieval Life is an examination of the development of medieval art and architecture and of the ways in which they mirror various aspects of life in the Middle Ages. This course will include a discussion of art and architecture in the countryside, in the town, in the castle, in the cathedral and in the cloister.

PR: it is recommended, but not obligatory, that students should have successfully completed one of the following courses: the former Anthropology 2480, Folklore 1000 or 2000, HIST 2320, History 2330, Medieval Studies 2000, Medieval Studies 2001, Medieval Studies 2002

3030 Environmental History examines the history of human relationships to the natural environment. The focus of the course is the history of environmental changes caused by humans, the reciprocal influence of the natural environment on human cultures and societies. Case Studies will introduce patterns of ecological change associated with broad historical transformations such as colonialism, military conflict, the development of world economies, etc.

3050 History of Warfare to 1789 is a survey of major developments in the history of warfare from the earliest times to 1789 with particular emphasis on changes in the nature and conduct of warfare, the evolution of military thinking, the organization of military and naval forces, the impact of technological change, the emergence of professionalism and the relationship between societies and armed forces.

3060 History of Modern Warfare Since 1789 is an examination of those major developments which have affected the nature and conduct of warfare

in the period since 1789, with particular emphasis on the evolution of military thinking, the impact of technology on organization and planning, the role of air power, the civil-military relationship, professionalism in the armed forces, and the changing nature of warfare, the emergence of total war, global war, guerilla warfare, and limited warfare.

3110 History of Newfoundland to 1815 studies the growth of settlement and the manner in which a 'migratory' fishery carried on from England and Ireland changed into a 'sedentary' fishery carried on by residents of Newfoundland.

3120 Modern Newfoundland Since 1815 examines the establishment and development of political institutions, changes in economic structure and the growth of populations.

3130 History of French Canada Since 1791 - inactive course.

3140 Social History of the Canadian Worker to 1896 - inactive course.

3150 Social History of the Canadian Worker Since 1896 - inactive course.

3200 Women and the Law in Newfoundland History (same as Law and Society 3200) examines how legal reforms addressed or challenged the values of the community. Students will investigate the various ways in which Newfoundland women interacted with the law and on occasion found themselves before a magistrate.

CR: Law and Society 3200

3250 Migration History of North America - inactive course.

3270 Christianity and the Roman Empire - inactive course.

3330 France, 1750-1852 - inactive course.

3340 France Since 1852 - inactive course.

3350 Imperial Russia - inactive course.

3360 Revolutionary and Soviet Russia studies Russian history from the 1917 Revolutions to the emergence of the USSR as a superpower.

3370 German History I, to the Mid-Nineteenth Century - inactive course.

3380 German History II, Since the Mid-Nineteenth Century examines the history of German-speaking central Europe with special reference to the evolution of modern Germany since the mid-nineteenth century.

3440 History of the British Empire and Commonwealth Since 1815 examines the transition from British Empire to Commonwealth of Nations.

3450 Tudor and Stuart Britain, 1485-1714 examines the emergence of Britain under the Tudors and early Stuart monarchs.

3460 British History Since 1714 examines British history from the accession of the Hanoverians to the welfare state.

3480 History of Ireland, 1603 to the Great Famine is a survey of Irish history from Hugh O'Neill's submission to the English in 1603 to the mid-nineteenth century disaster of the Great Famine.

3490 History of Ireland Since the Great Famine is a survey of Irish history from the mid-nineteenth century to the present.

CR: the former HIST 3470

3515 Prehistory of Mesoamerica - inactive course.

3520 The Early Ethnohistory of North America's Native Peoples (same as Archaeology 3520) examines the North American native response to early European contact and initial settlement. Particular attention will be paid to cultural change resulting from the adoption of European goods, participation in the fur trade, the introduction of European disease, and the adaptation to a permanent European presence.

CR: Archaeology 3520

3525 The Later Ethnohistory of North America's Native Peoples (same as Archaeology 3525) examines Indian and Inuit cultural history of the eighteenth and nineteenth centuries, including the fur trade, resistance and accommodation to European expansion, the emergence of revitalization movements, demographic changes, and population shifts. Special emphasis will be placed on the ethnohistory of the native peoples of what is now Canada and northern United States.

CR: Archaeology 3525

3535 Historical Anthropology (same as Archaeology 3584 and the former Anthropology 3584) will explore selected issues in historical anthropology, with special reference to the Mediterranean and North Atlantic worlds. Students will read specific case studies in order to explore the theoretical issues raised by the attempt to understand historically-documented past cultures. In order to give practical examples of methodology classes will analyse primary source material. Students will be introduced to the textual analysis of myth and legal records, to the interpretation of images and to the analysis of patterns in material culture. The course will consider specific

current interpretive issues, particularly the rise of individualism, the consumer revolution and the cultural construction of gender.

CR: Archaeology 3584, the former Anthropology 3584

3540 History of China - inactive course.

3545 History of Modern Japan - inactive course.

3550 History of India - inactive course.

3555 Methods and Materials in Historical Archaeology (same as the former Archaeology 3555) is a combination lecture and laboratory course designed to acquaint students with the analysis of artifacts and other evidence from historical archaeological sites. It is ordinarily intended to follow Archaeology 3480, Field and Laboratory Techniques in Archaeology.

CR: the former Archaeology 3555

3560 A History of Human Rights - inactive course.

3570 The Modern Middle East - inactive course.

3580 South Africa Since 1815 - inactive course.

3585 Tropical Africa Since 1800 - inactive course.

3600 Industrial Revolutions of the Eighteenth and Nineteenth Centuries - inactive course.

3610 International Economic History of the Nineteenth and Twentieth Centuries - inactive course.

3620 Canadian Economic History to the End of the Nineteenth Century - inactive course.

3630 Canadian Economic History in the Twentieth Century - inactive course.

3650 Canadian Business History - inactive course.

3660 The Scientific Revolution examines the change from the Aristotelian-Ptolemaic to the Newtonian world view with special emphasis on the work of Copernicus, Kepler, Galileo, Descartes and Newton.

3665 History of Western Medicine introduces students to the major topics and themes with which historians of medicine are currently engaged. These include the nature of doctor-patient relationships, perceptions of the body, professionalization, patterns of disease, and the development of European public health movements. The course traces the practice of medicine from ancient Greece to the present although the primary focus will be on the period from the eighteenth to the early twentieth century.

PR: at least 3 credit hours in History at the 2000 level or above

3675 Navies and Societies Since 1650 - inactive course.

3680 North Atlantic Seafaring to 1850 examines the maritime mercantile development of the countries on the Atlantic littoral, 1650-1850.

3690 North Atlantic Seafaring from 1850 - inactive course.

3700 Art History: The Italian Renaissance - inactive course.

3701 Art History: The Renaissance Outside Italy (same as Visual Arts 3701) examines the Renaissance outside Italy from the late fourteenth century and the international style through the sixteenth century.

CR: Visual Arts 3701

3710-3729 Special Topics in British History are available only as part of the Harlow Campus Semester.

3740-3750 Studies in Modern Social and Intellectual History are selected studies in the history of modern ideas and society. Aspects to be studied will be announced in the History Department brochure.

3760 Women in Western Society and Culture I - inactive course.

3770 Women in Western Society and Culture II - inactive course.

3780 Women in Medieval Europe, 500-1500 - inactive course.

3785 The European Family: The Age of Faith to the Welfare State focuses on the family in Europe from the middle ages to the early twentieth century. Topics examined will include: family structure, kinship, demography, sexuality, gender relations, child-rearing, attitudes towards the elderly and care of them, and the place of the family in the larger community.

CO: at least 3 credit hours in history at the 2nd-year level, or permission of the instructors

PR: at least 3 credit hours in history at the 2nd-year level, or permission of the instructors

3790 Reel American History: United States History through its Films, 1895-1945 interprets narrative films as historical evidence to shed light on shifts in American culture and society during the first half of the twentieth century.

3795 Reel American History: United States History through its Films since WWII interprets narrative films as historical evidence to shed light on shifts in American culture and society during the second half of the twentieth century.

3800-3830 (Excluding 3822) Contemporary Problems in Historical Perspective is an analysis of developments leading to a contemporary issue or problem selected each year or semester. Aspects to be studied will be announced in the Department of History brochure.

CR: credit may not be obtained for only one of HIST 3803 and HIST 3016

3840 Historical Methods is an introduction to the methods and practices of history in the modern era. This course is compulsory for Majors and Honours students, including those intending to apply for graduate studies.

CR: the former HIST 4801

PR: 12 credit hours in History

3860 Vernacular Architecture same as Folklore 3860 and the former Anthropology 3860) is a historical survey of vernacular architectural forms in various regions of North America, with attention to Newfoundland materials. Issues discussed include the relationship of house form and culture, the concepts of antecedents, diffusion, innovation, and evolution of building forms and technologies, and the siting of buildings in the landscape. Dwelling houses, outbuildings, churches and industrial vernacular architecture will be included.

CR: Folklore 3860, the former Anthropology 3860

3870 An Introduction to the History of Western Architecture Since the Renaissance (same as Folklore 3870) introduces students to the history of architecture in the western world, beginning with the revival of classical forms in Renaissance Italy.

CR: Folklore 3870

3925 The Pre-Islamic Empires of Iran introduces students to the history of Iran from the rise of the Achaemenid Empire, through the Parthian and Sasanian Empires, to the advent of the Islamic era. Through the use of primary source material, students will be introduced to the types of historical sources available for Iran, the problems associated with this evidence, and the different ways that we construct ancient history.

3930 Byzantine History to 1453 will introduce students to the history of Byzantine society from its beginnings under Constantine to the fall of Constantinople to the Turks in 1453. In addition to the chronological history, students will also encounter several characteristics of Byzantine society, including religion, urbanization, and interaction with the Persian Empire.

3935 Islamic History to 1453 will introduce students to the history of Islamic society from its beginnings under Muhammad to the rise of the Ottomans and the fall of Constantinople in the fifteenth century. We will also discuss the non-Muslim communities which co-existed with the Muslim umma or community. Through the use of primary source material, students will be introduced to the types of historical sources available for Islamic history, as well as the problems associated with this evidence.

PR: there is no prerequisite for this course although History 2050 is strongly recommended

3999 Quantitative Approach in Historical Writing - inactive course.

4000-4010 Special Topics in Ancient and Medieval History are specialized studies in Ancient and Medieval history. Aspects to be studied will be announced in the Department of History brochure.

4100 History and Memory (same as Folklore 4100) is a course which recognizes that memory is not one of the natural parts of ourselves, nor is remembering a way of connecting with a single reference point in a social reality outside ourselves. These things are socially determined. Starting here, this course is designed to have students reflect on what they know about the past and how they know about it. The class will examine how individual and social memory works, concentrating on particular historical contexts.

CR: Folklore 4100, the former HIST 4569

4110-4130 Special Topics in North Atlantic History are specialized studies in the history of the North Atlantic. Aspects to be studied will be announced in the Department of History brochure.

4210-4229 (Excluding 4214) Special Topics in North American History are specialized studies in the history of North America. Aspects to be studied will be announced in the Department of History brochure.

4230 Special Topics in Newfoundland History I are specialized studies in the history of Newfoundland to the mid-nineteenth century.

4231 Special Topics in Newfoundland History II are specialized studies in the history of Newfoundland since the mid-nineteenth century.

CR: the former Political Science 4731

4232 Special Topics in Newfoundland History III - inactive course.

4240-4260 Special Topics in Canadian History are specialized studies in Canadian history. Aspects to be studied will be announced in the

Department of History brochure.

4310-4330 Special Topics in European History are specialized studies in the history of Europe. Aspects to be studied will be announced in the Department of History brochure.

4360-4380 Special Topics in European History are available only as part of the Harlow Campus Semester.

4410-4430 Historical Problems are specialized studies in historical problems. Aspects to be studied will be announced in the Department of History brochure.

4480 Oral History (same as Folklore 4480) is a seminar course which deals with the uses of oral sources, particularly those which have a traditional dimension, for the study of history. The uses of oral testimony in the study of traditional modes of life and work in social and political history will also be discussed.

CR: Folklore 4480

4520-4529 Special Topics in Economic and Mercantile History are specialized studies in Economic and Mercantile history. Aspects to be studied will be announced in the Department of History brochure.

4560-4570 (Excluding 4569) Special Topics in Social and Intellectual History are specialized studies in Social and Intellectual history. Aspects to be studied will be announced in the Department of History brochure.

4670-4690 Special Topics in Maritime History are specialized studies in Maritime history. Aspects to be studied will be announced in the Department of History brochure.

4695 The Middle Ages on Film will look at a variety of films set in the Middle Ages. This course will address questions such as how directors approach historical subject matter generally and the Middle Ages in particular; what subjects they choose, and how and why these change. This is a course not about film criticism, but about medievalism. This course will consist of viewing and discussion.

PR: it is recommended that students have completed one course in Medieval History or Medieval Studies

4730 Art History: Modern Art I Precursors to Modernism (same as Visual Arts 4730) is an examination of the cultural, social, and political forces which, from 1750 to 1850, were to have a major impact on modernity and later modern art.

CR: Visual Arts 4730

PR: 6 credit hours in Art History or permission of the Chair of the Visual Arts Program

4731 Art History: Modern Art II Early Modernism (same as Visual Arts 4731) is an examination of the various cultural and social forces between 1850 and 1914 which shaped the rise of the Modern movement.

CR: Visual Arts 4731

PR: 6 credit hours in Art History or permission of the Chair of the Visual Arts Program

4800 Historiography is an introduction to the major historians and historiographical traditions of the West. This course is for Honours students and other selected students, including those intending to apply for graduate studies.

PR: permission of the Head of Department

4810 Documents Management (same as Folklore 4810) is an introduction to the management of records and documents, both official and private.

CR: Folklore 4810

4821 Reading Course is a directed reading course for Honours and selected students including those intending to apply for graduate studies. Readings will be taken from a list of works by historians, or social theorists whose works are related to history.

PR: permission of the Head of Department

4822 Reading Course is a directed reading course for Honours and selected students. The readings will be chosen in such a way as to supplement a student's knowledge of his/her area of specialization and, where appropriate, to prepare the student for the honours essay. If a student intends to complete HIST 4999, a proposal for the honours essay will be a requirement of the course.

CR: the former HIST 4820

PR: permission of the Head of Department

4830-4850 Reading Courses are directed reading courses for selected Bachelor of Arts students.

PR: permission of the Head of Department or delegate

4999 Honours Essay is required as part of the Honours program.

PR: HIST 4822, admission to the Honours program

10.18 Italian

For Italian course descriptions see under French.

10.19 Law and Society

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Program Co-ordinator.

Law and Society courses are designated by LWSO.

1000 Law, Democracy and Social Justice examines the nature and aims of democracy and contemporary issues related to social justice through a law and society perspective.

2000 Law and Society in Canada is an introduction to law in Canadian society and the role which it has played in societies past and present.

PR: LWSO 1000

3010-3019 (Excluding 3012, 3013, 3014, 3015 and 3016) Special Topics in Law and Society will have topics to be studied announced by the Program Co-ordinator.

PR: LWSO 1000

3012 Aboriginal Peoples: Concepts of Land, the Law and the Constitution traces the historical development of Aboriginal land and resource rights; colonial and Canadian law; and the Constitution of Canada as it relates to the Indian, Inuit and Metis people of Canada. The developing concept of Aboriginal law is presented within the context of the treaty process, Indian Act, contemporary land claims, the Canadian Constitution, and federal/provincial relations.

PR: LWSO 1000. LWSO 2000 is recommended

3013 Resource Management and Collective Bargaining - inactive course.

3014 Aboriginal and Government Relations in Newfoundland and Labrador traces the historical development of Aboriginal and Government relations in Newfoundland and Labrador. Topics include: the current legal and constitutional status of the Inuit, Indian and Metis people within the context of land claims, application of the Indian Act, access to programs and services, and federal/provincial relations.

PR: LWSO 1000. LWSO 2000 is recommended.

3015 Women and Law in Canada looks at the interplay between law and status under the law, the course proceeds to look at some of the main legal issues affecting women today, such as workplace equality, family law and women and crime. This course provides students with the opportunity to study cases in depth and apply legal theory to current issues affecting Canadian women.

PR: LWSO 1000. LWSO 2000 is recommended.

3016 Western Traditions of Law and War provides students with a historical overview of the law of war. The course goes beyond the traditional legal definition of war as an armed conflict between states, and examines whether the law of war should be applied to terrorism and wars of national liberation. Topics include: just war theory, the legality of the various means of warfare, the treatment of protected people and places and the prosecution of war criminals.

PR: LWSO 1000

3200 Women and the Law in Newfoundland History (same as History 3200) examines how legal reforms addressed or challenged the values of the community. Students will investigate the various ways in which Newfoundland women interacted with the law and on occasion found themselves before a magistrate.

CR: History 3200

PR: LWSO 1000. LWSO 2000 is recommended.

3300 Understanding Human Rights introduces students to the theory and practice of human rights. Course topics include: history; philosophy; and international and Canadian structures and provisions. The course includes an examination of selected areas of human rights, i.e. labour, women's and children's rights, and explores current and future applications of human rights.

PR: LWSO 1000

3400 Organized Crime in Canada: National and Global Perspectives examines the origins, expansion, and changing character of organized crime in Canada from the early twentieth century to the present. Laws relating to criminal activity, law enforcement and available tools to combat organized crime are assessed according to the inherent problems of investigation, evidence, and litigation.

PR: LWSO 1000. LWSO 2000 is recommended.

4000 Multidisciplinary Perspectives on Law and Society is an appreciation and understanding of those rules and activities termed legal

which can be gained from a variety of disciplinary perspectives. The purpose of this seminar is to introduce students to the different ways in which law may be approached within the social sciences and humanities. The topic or topics to be discussed in a given semester will depend on the availability and participation of faculty from participating departments. Through seminar readings, discussions and research, students will gain a wider understanding of the role of law in society and of the diverse academic approaches for understanding it.

PR: LWSO 1000 and at least 15 credit hours in courses applicable to the Law and Society major or minor

4900 Development of Law in Newfoundland (same as History 4232 and the former History 4214) traces the evolution of the legal system of Newfoundland and Labrador from its earliest beginnings. Students are responsible for contributing to seminar discussions and presenting a research essay on some major themes that distinguish legal developments in Newfoundland and Labrador.

CR: History 4232, former History 4214

PR: LWSO 1000. LWSO 2000 is recommended.

4901-4909 Special Topics in Law and Society will have topics to be studied announced by the Program Co-ordinator.

PR: LWSO 1000

10.20 Latin

For Latin course descriptions see under Classics.

10.21 Linguistics

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Linguistics courses are designated by LING.

1100 Language and Communication is a general and non-technical introduction to linguistic concepts which are important for understanding the nature of language, its change and its function for communication. Topics include: languages as structured systems; the systematicity of language change; the classification of languages into families and their geographical distribution; language, the brain, and language disorders; the acquisition of language; and human vs animal communication. (Intended for first-year students.)

CR: LING 2100

1103 Introduction to Morphology and Syntax is an introduction to the study of the meaningful components of words and sentences. This course will demonstrate the principles by which parts of words are organized into larger units (inflectional morphology and word-formation), and by which words pattern into phrases and sentences (syntax). Synchronic and diachronic data from English and several other languages will be analysed to illustrate how language is structured.

CR: LING 2103

1104 Introduction to Phonetics and Phonology is an introduction to the sounds of speech, their description (phonetics), organization (phonology), and interactions with morphology (morphophonology). The synchronic and diachronic patterns and regularities of language will be demonstrated through analysis of data selected from English and other languages.

CR: LING 2104

1105 The Wonder of Words is an introduction to the structure of words. This course presents methods of linguistic analysis through an in-depth study of English word origins. The French, Latin and Greek origins of technical and scientific words are studied, together with the ways that these words may change in structure, sound, and meaning. The course will also provide an introduction to etymology, to writing systems and transliteration, and to the use of dictionaries.

CR: credit may not be obtained for both LING 2105 and the former LING 1101, nor for both LING 1105 and LING 2105

1530 Reading and Writing in Innu-aimun I - inactive course.

1531 Reading and Writing in Innu-aimun II - inactive course.

2020 Introduction to the Structure of Inuttitut I - inactive course.

2021 Introduction to the Structure of Inuttitut II - inactive course.

2022 Issues in Oral Inuttitut reviews issues of oral Inuttitut. Topics included will be the primary role of oral language in communication, language, acquisition and language maintenance. The nature and significance of dialect differences will also be discussed. Different types of oral language will be examined, e.g. stories, newscasts, conversation. Students will study how oral language is used within modern Labrador

society and whether language attitudes are reflected in this use. Students will also consider how best to teach oral Inuitit and different ways to test for oral proficiency. This course is intended for fluent speakers of Inuitit who are planning to complete the Diploma in Native and Northern Education (T.E.P.L.). This course is not normally offered at the St. John's campus.

PR: LING 2020

2023 Reading and Writing in Inuitit - inactive course.

2025 Introduction to Inuitit I introduces students to Inuitit (Eskimo). Students will develop a working knowledge of basic vocabulary and grammar, as well as a number of linguistic concepts that will enable them to consult a wide range of reference books. A strong emphasis will be placed on oral skills. This course is intended for students who want to learn an Aboriginal language spoken in Newfoundland and Labrador.

2026 Introduction to Inuitit II is a continuation of LING 2025. Students will learn further vocabulary and grammar of the language. They will also be required to submit a project based on their own investigation of some aspect of the grammar of the language (based on either reference books or fieldwork). A strong emphasis will be placed on oral skills. This course is intended for students who want to learn an Aboriginal language spoken in Newfoundland and Labrador.

PR: LING 2025

2030 Introduction to Innu-aimun (Montagnais/Naskapi) I - inactive course.

2031 Introduction to Innu-aimun (Montagnais/Naskapi) II - inactive course.

2040 Introduction to Mi'kmaq I - inactive course.

2041 Introduction to Mi'kmaq II - inactive course.

2060 Aboriginal Languages of Eastern Canada is an overview of the aboriginal languages of three language families of Eastern Canada: Eskimo-Aleut (Inuitit) and Algonquian (Innu-aimun, Mi'kmaq, Maliseet-Pasmaquoddy and Beothuk) and Iroquoian (Mohawk) with respect to both linguistic structure and current vitality. The history of language suppression and revitalization efforts, within the context of the larger issues of minority language attrition and maintenance. This course is intended for students who want to learn an Aboriginal language spoken in Newfoundland and Labrador.

2100 Language and Communication is a general and non-technical introduction to linguistic concepts which are important for understanding the nature of language, its change and its function for communication. Topics include: languages as structured systems; the systematicity of language change; the classification of languages into families and their geographical distribution; language, the brain, and language disorders; the acquisition of language; and human vs animal communication. This course may qualify as a Research/Writing course. Prior to registration a list of courses which may be used as a research/ writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: LING 1100

2103 Introduction to Morphology and Syntax is an introduction to the study of the meaningful components of words and sentences. This course will demonstrate the principles by which parts of words are organized into larger units (inflectional morphology and word-formation), and by which words pattern into phrases and sentences (syntax). Synchronic and diachronic data from English and several other languages will be analysed to illustrate how language is structured.

CR: LING 1103

2104 Introduction to Phonetics and Phonology is an introduction to the sounds of speech, their description (phonetics), organization (phonology), and interactions with morphology (morphophonology). The patterns and regularities of language will be demonstrated through analysis of synchronic and diachronic data selected from English and other languages.

CR: LING 1104

2105 The Wonder of Words is an introduction to the structure of words. This course presents methods of linguistic analysis through an in-depth study of English word origins. The French, Latin, and Greek origins of technical and scientific words are studied, together with the ways that these words may change in structure, sound, and meaning. The course will also provide an introduction to etymology, to writing systems and transliteration, and to the use of dictionaries.

CR: credit may not be obtained for both LING 2105 and the former LING 1101, nor for both LING 1105 and LING 2105

2210 Language in Newfoundland and Labrador: An Introduction to Linguistic Variation is a general, non-technical introduction to the languages of Newfoundland and Labrador. Topics covered include the concept of variation within language, both regional and social; the chief causes of such variation, and some of its societal and educational consequences; a survey of the regional and social dialects of Newfoundland English, and their major features; an overview of languages in the province

other than English, and their current situation. Note: This course may qualify as a Research/Writing course. Prior to registration a list of courses which may be used as a research/ writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2300 Philosophy of Language and Mind (same as Philosophy 2300) is a survey of philosophical thinking about human language and thought, and about how these phenomena relate to the rest of the natural world. Topics covered include the nature of language, the relations between thought and language, and the nature of consciousness.

CR: Philosophy 2300, the former Linguistics 2710, the former Philosophy 2710

2400 History of the English Language to 1500 - inactive course.

2401 History of the English Language from 1500 to Modern Times - inactive course.

2700-2720 (Excluding 2710) Special Topics in Linguistics is an introduction to Uncommonly Taught Languages including the following:

2700 Introduction to Irish Gaelic I is an introduction to Irish Gaelic I.

2701 Introduction to Irish Gaelic II is an introduction to Irish Gaelic II.

2702 Introduction to Japanese I is an introduction to Japanese I.

2703 Introduction to Japanese II is an introduction to Japanese II.

PR: LING 2702

2704 Introduction to Japanese III - inactive course.

2705 Introduction to Japanese IV - inactive course.

2706 Introduction to Japanese V - inactive course.

3000 Morphological Analysis studies the meaningful parts from which words are built by using restricted data from a variety of languages. Practical work on selected languages will illustrate the wide range of notions which acquire formal expression in grammatical systems. Although previous knowledge of the languages to be discussed is not necessary, an important aspect of the course will be practical experience in analysing phenomena which are foreign to English. Discussion of languages taught at this University will be balanced with analysis of limited data sets from more exotic languages. Comparison of the means by which smaller units are organized into words will make possible an elementary typology of the world's languages.

PR: LING 1103 or LING 2103

3100 Generative Syntax is an introduction to a major contemporary approach to syntactic theory. Topics include phrase structure and constituency, case theory and agreement, principles of thematic role assignment, parametric variation, and the different types of syntactic movement.

PR: LING 1103 or LING 2103

3104 Phonetics builds on the introduction to phonetics given in LING 1104 or LING 2104, and deals with the wide range of sounds that are used in human languages. On the practical side, the student will systematically learn to identify, symbolize and pronounce a large number of sounds. The theoretical work will concentrate on an understanding of the articulatory, acoustic and perceptual features of speech sounds. This involves the close examination of data from foreign languages chosen to illustrate the fact that languages differ widely in their selection and organization of speech sounds. It also involves study of selected regional differences in the pronunciation of English.

PR: LING 1104 or LING 2104

3105 Issues in the Acquisition of English and the Adult Learner - inactive course.

3150 Bilingualism: Linguistic, Cognitive and Educational Aspects - inactive course.

3155 Introduction to Language Acquisition will examine a number of critical issues in the first and second language acquisition of syntax and phonology. Current generative approaches to first and second language acquisition will be covered, which will be exemplified with data from different languages. An introduction to phonological and syntactic speech disorders will also be offered.

PR: LING 1103 or LING 2103 and LING 1104 or LING 2104

3201 Generative Phonology will present the basic terms, concepts, and methods of Generative Phonology. Theoretical constructs surveyed will include distinctive feature theory and syllable structure. These constructs will be exemplified using phenomena observed in natural languages, including allophony, allomorphy, and processes such as assimilation and neutralization.

PR: LING 1104 or LING 2104

3210 Language Variation and Change will provide a thorough grounding in the methods and theory underlying current approaches to language variation

and change.

PR: LING 2210, or third-year standing, or permission of the instructor

3212 Language and Gender is an introduction to research and critical thinking on the relationship of language and gender to culture, power, construction of identity, performance, interaction, social networks, language change, sexuality, and language in the school and workplace.

PR: LING 2210 or Gender Studies 1000

3220 Linguistics and Law - inactive course.

3302 History of the French Language (same as French 3302) is a study of the origins of French, including the influence of Gaulish, Vulgar Latin, Frankish and the langue d'oc/langue d'oïl division, a survey of the dialects, morphology and syntax of Old French and of the evolution from Old to Middle French, including phonology, morphology, syntax and vocabulary.

CR: French 3302

PR: French 2101 (or 2160) and 2300; Classics 1120 is strongly recommended

3310 Phonology and Morphology of French (same as French 3310) is an examination of the phonological and morphological structure of French. Data from regional and non-standard varieties contrasted with data from standard French: formal rules to deal with observed regularities. Interactions of phonology and morphology in phenomena such as liaison. Derivational and inflectional morphology. Research articles on one or more of the topics dealt with in the course will be assigned as readings, and a written report in French based on one or more of the articles is to be submitted as part of the term work. This course will normally be taught in French.

CR: French 3310

PR: French 2300 or permission of the instructor. Students who have not completed French 2300 are strongly advised to complete at least 3 credit hours in French courses at the 2000 level before attempting LING 3310.

3311 Introduction to General Linguistics: Aspects of French Linguistic Theory (same as French 3311) is a practical examination of the French verbal system, with a thorough exposition of the systems of aspect, voice, tense and mood. The fundamental concepts of linguistics will form the framework of this exposition: the langue/parole distinction and its relationship to underlying and surface entities; language as activity and the generation of surface elements from underlying subsystems. This course will normally be taught in French.

CR: French 3311

PR: a course in Linguistics or French 2100 or 2159

3500 Historical Linguistics will focus on: Genetic relationships between languages; the comparative method; language change found in phonetics/phonology, morphology and syntax; lexical and semantic change; the role of language and dialect contact; comparative and internal reconstruction; the typological and genetic classification of languages.

PR: LING 1103 or LING 2103 and LING 1104 or LING 2104

3850 Semantics is an introduction to the study of linguistic meaning. Word and sentence-level semantics, grammatical meaning, pragmatics, and logical aspects of meaning.

PR: LING 1103 or LING 2103 is required; LING 3000 and 3100 are recommended

3950-3960 (Excluding 3951) Special Topics in Linguistics will have topics to be studied announced by the Department.

3951 Language Endangerment and Revitalization provides an introduction to the key issues surrounding the discussion of endangered languages. Causes, consequences, and efforts to reverse the process of decline (language revitalization or maintenance) are examined through consideration of case studies from around the world. Theoretical models developed to evaluate the current status and future prospects of endangered languages are also considered. The course is likely to include substantial discussion of the situation in Canada and the USA.

PR: LING 1100 or 2100

4010-4091 will focus on the linguistic structure of certain languages, and are designed to provide senior students with the opportunity of being exposed to a substantial part of the grammar of a language other than those regularly offered in the Faculty of Arts. One course in this series will be offered each year, subject to availability of instructor.

PR: LING 1103 or LING 2103 and LING 1104 or LING 2104 or the permission of the instructor and the Head of the Department.

4050-4054 Linguistic Structure of a North American Aboriginal Language could study the following languages: Cree, Inuitit (Inuktitut), Innu-aimun (Montagnais/Naskapi), etc.

CR: Except where an exemption is supplied by the Head of the Department, a student may not obtain credit for more than one course in the LING 4050-4054 series. Students may not obtain credit for any of the previously offered LING 4010, 4020, 4021, 4030, 4031, 4040, 4041 in addition to a course in the LING 4050-4054 series.

PR: LING 1103 or LING 2103 and LING 1104 or LING 2104 or the permission of the instructor and the Head of the Department.

4055-4059 Linguistic Structure of an Uncommonly Taught Language could study the following languages: Fijian, Modern Arabic, Classical and Vedic Sanskrit, or other exotic languages.

CR: Except where an exemption is supplied by the Head of the Department, a student may not obtain credit for more than one course in the LING 4055-4059 series. Students may not obtain credit for any of the previously offered LING 4011, 4060, 4061, 4065, 4066, 4070, 4071, 4080, 4081, 4090, and 4091 in addition to a course in the LING 4055-4059 series.

PR: LING 1103 or LING 2103 and LING 1104 or LING 2104 or the permission of the instructor and the Head of the Department.

4100 Morphosyntactic Analysis is an analysis of a wide range of linguistic data in morphology and syntax. The course will focus on essential linguistic concepts in more than one theoretical framework, and on the nature of linguistic evidence. This course is usually offered in alternate years.

CR: the former LING 4001

PR: LING 3000

4110 Selected Topics in Generative Grammar examines a particular topic or set of related topics which are selected by the instructor and which are important in contemporary generative theory. Readings will normally come from the primary literature. This course is usually offered in alternate years.

PR: LING 3100

4150 Language Acquisition II provides an evaluation of the theoretical aspects of first and second language acquisition. Theories about the role of linguistic principles, learnability and the role of linguistic input are discussed, in light of research on the acquisition of English and other languages.

PR: LING 3155

4151 Advanced Topics in Phonological Acquisition will address current empirical and theoretical issues pertaining to the first language acquisition of phonology. From an empirical perspective, we will look at developmental patterns as well as variation or lack thereof among and between learners, within and across languages. From a theoretical perspective, we will address how theoretical frameworks can, and at times cannot, account for the variation observed. Taking a universalist approach as a starting point, we will address how the language input provided by different languages can influence the learner's analysis of the phonology of this language during the course of acquisition. This influence will be both addressed in terms of grammatical learning and from the perspective of production patterns observed in the data.

PR: LING 4150

4201 Phonological Theory will familiarize students with current issues in phonological theory. Issues such as phonology in the lexicon, segmental and prosodic representations, the analysis of stress and tonal systems, as well as a comprehensive introduction to constraint-based approaches to phonology will be covered. Students will further develop their ability to analyse phonological data. This course is usually offered in alternate years.

PR: LING 3201

4202 Selected Topics in Generative Phonology examines a particular topic or set of related topics which are selected by the instructor and which are important in contemporary generative phonology. Readings will normally come from the primary literature. This course is usually offered in alternate years.

PR: LING 3201

4210 Sociolinguistics studies the detailed patterns of variation found in any given speech community, and factors which co-vary with them; the various theoretical models proposed to account for such variability. As their major assignment, students will complete a carefully restricted sociolinguistic project. This course is usually offered in alternate years.

PR: LING 2210

4301 French Dialects, Patois and Argots - inactive course.

4310 The French Language in Canada - inactive course.

4350 General Romance Linguistics - inactive course.

4400 Historical and Comparative Linguistics - inactive course.

4403 Etymology: History of English Words - inactive course.

4420 English Dialectology I - inactive course.

4421 English Dialectology II - inactive course.

4500 Introduction to Field Methods is data collection and organization for an unfamiliar language in a simulated field situation, including methods of elicitation, data filing, preliminary analysis, and hypothesis formation and testing. In this course students will also learn to apply analytical skills developed in the core theoretical areas of phonetics/phonology, morphology, syntax and semantics. This course is usually offered in alternate years.

PR: LING 3000 or 3100, and 3201 or permission of the instructor

4700 Experimental Phonetics examines some empirical methods of studying the different stages of 'the speech chain' which links speaker to

hearer, with special emphasis on the acoustic and perceptual stages. The source-plus-filter theory of speech production. A survey of the range of natural articulations and their acoustic effects. Some competing theories of speech perception. Acoustic versus perceptual bases for phonological features.

PR: LING 1104 or 2104

4750 Selected Topics in Phonology will have topics to be studied announced by the Department. This course introduces students to more advanced topics in core linguistic disciplines.

PR: LING 4201 or LING 4202

4751 Selected Topics in Morpho-Syntax will have topics to be studied announced by the Department. This course introduces students to more advanced topics in core linguistic disciplines.

PR: LING 4100 or LING 4110

4752 Selected Topics in Semantics will have topics to be studied announced by the Department. This course introduces students to more advanced topics in core linguistic disciplines.

PR: LING 3850

4753 Selected Topics in Acquisition will have topics to be studied announced by the Department. This course introduces students to more advanced topics in core linguistic disciplines.

PR: LING 4150 or LING 4151

4754 Selected Topics in Linguistic Variation will have topics to be studied announced by the Department. This course introduces students to more advanced topics in core linguistic disciplines.

PR: LING 4210

4900-4901 Independent Study are courses that are open to advanced students wishing to do individual research in consultation with an advisor.

PR: permission of instructor

4950-4960 Special Topics in Linguistics will have topics to be studied announced by the Department.

PR: permission of the instructor

4999 Honours Essay is required as part of the honours program.

10.22 Medieval Studies

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Medieval Studies courses are designated by MST.

2000 The Cultural Legacy of the Middle Ages will survey the formative cultures of the Middle Ages - Latin, Celtic, Arabic - as well as the rise of the new vernacular cultures, Germanic and Romance. Literary trends such as the reliance on authority, the emergence of national epic and the development of court literature will be studied. The course examines the interplay of all the arts - literature, music, art and architecture.

2001 Medieval Europe to 1050 (same as History 2320) is a survey of the economic, social, political and cultural developments of the early Middle Ages.

CR: History 2320

2002 Medieval Europe, 1050 to the Reformation (same as History 2330) is a survey of the economic, social, political and cultural developments of Europe in the high and late Middle Ages.

CR: History 2330

3000 Medieval Books (same as English 3002, History 3000, Religious Studies 3000) is an examination of the development and role of the manuscript book during the Middle Ages. Topics covered will include book production and dissemination; authors, scribes and audiences; and various kinds of books (e.g. glossed Bibles, anthologies, books of hours, etc.) and their uses.

CR: English 3002, History 3000, Religious Studies 3000

PR: MST 2000, 2001 or 2002 or permission of the instructor

UL: this course may be substituted for a Greek and Roman Studies course in both the Classics degree programs (Honours, Joint Honours and general degree) and the Greek and Roman Studies degree programs (Honours, Joint Honours and general degree)

3001 Art, Architecture and Medieval Life (same as Archaeology 3001, Folklore 3001, History 3020) is an examination of the development of medieval art and architecture and of the ways in which they mirror various aspects of life in the Middle Ages. The course will include a discussion of art and architecture in the countryside, in the town, in the castle, in the cathedral and in the cloister.

CR: Archaeology 3001, Folklore 3001, History 3020

PR: MST 2000, 2001 or 2002 or permission of the instructor. It is recommended, but not obligatory, that students should have successfully completed one of the following courses: Archaeology 2480, Folklore 1000 or 2000, History 2320, History 2330, MST 2000, MST 2001, MST 2002

3002 Folklore in Medieval Society - inactive course.

3003 Christian Thought in the Middle Ages (same as Religious Studies 3560) is a study of the development of Christianity in the West from the eleventh century to the eve of the Reformation, through an examination of its principal thinkers and the most significant societal forces and events: the crusades, the universities, monasticism, religious dissent, and mysticism.

CR: Religious Studies 3560

3004 Medieval Philosophy (same as Philosophy 3760) is developments in Philosophy from Augustine to Ockham.

CR: Philosophy 3760

3006 Women Writers of the Middle Ages (same as English 3006, Gender Studies 3001, and the former Women's Studies 3001) will study selections from the considerable corpus of women's writings in the Medieval period, as well as issues which affected women's writing. All selections will be read in English translation.

CR: English 3006, the former MST 3351, Gender Studies 3001, the former Women's Studies 3001

3710-3729 Special Topics in Medieval Studies is available only as part of the Harlow Campus Semester.

4000-4020 Special Topics in Medieval Studies are seminars on such general, interdisciplinary or comparative subjects as, e.g., Popular Culture in the Middle Ages, The Medieval Stage, The Medieval Court, The Religious Orders, Women in Medieval Society, Medieval Universities, Scholasticism, Dante's Divine Comedy, Medieval Historiography, Arthurian Romance, Jewish Medieval Communities, Muslim Art and Architecture and The Byzantine World.

PR: MST 3000 or 3001 or permission of the instructor

4021 Medieval Latin (same as Classics 4202)

CR: Classics 4202

10.23 Philosophy

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Philosophy courses are designated by PHIL.

1000 Philosophy of Human Nature is an approach to philosophical thinking by way of analysis and critique of theories of human nature, classical and modern, and the world views associated with them. Philosophy 1000, or the former Philosophy 1600, is not required for further courses in philosophy but is of particular value to students interested in the Social Sciences and Humanities. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements.** Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 1001, the former PHIL 1600

1100 Critical Thinking aims to impart critical analytic skills: i.e., the ability to recognize good and bad arguments, to explain why a particular argument is good or bad, and a general understanding of why a good argument ought to persuade and a bad argument ought not to persuade.

CR: the former PHIL 1003

1200 Introduction to Philosophy is a general introduction to the study of Philosophy both as a contemporary intellectual discipline and as a body of knowledge. The course covers the main divisions, fundamental questions and essential terminology of Philosophy through a reading of classical texts. It is a prerequisite for courses at the 3000 level or above in Philosophy programs. It is intended for students in first year who have completed one semester of university education. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements.** Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2200

2000 Introduction to Metaphysics is an introduction to the systematic inquiry into the nature of reality. Topic may include the nature of being, time, the question of God, appearance and reality, the one and the many, mind and matter, essence and existence.

2210 Logic is an introduction to traditional and modern logic. Open in any year to all students wishing acquaintance with basic logical skills.

2220 Epistemology examines various concepts of knowledge - empirical, rational, transcendental, systematic. Their metaphysical grounds and implications. The concept of scientific knowledge; real and abstract entities; objectivity and subjectivity.

2230 Moral Philosophy examines the sources and validity of ethical principles which underlie individual and social action.

2300 Philosophy of Language and Mind (same as Linguistics 2300 and the former Linguistics 2710) is a survey of philosophical thinking about human language and thought, and about how these phenomena relate to the rest of the natural world. Topics covered include the nature of language, the relations between thought and language, and the nature of consciousness.

CR: Linguistics 2300, the former Linguistics 2710, the former PHIL 2710

2400 Introduction to Philosophy of Law employs historical and contemporary sources to explore major traditions and concepts in the philosophy of law. Topics covered include natural law, legal positivism, the nature of legal interpretation, the relationship between law and morality, and the concepts of rights, responsibility, and justice.

2500-2550 Contemporary Issues discusses the philosophical dimensions of an area of practical concern such as contemporary culture, professional ethics, leisure, education, the mass media, gender, war and human rights. Some sections of this series may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2541 Philosophy and Western Spirituality will examine Western theories and practices of soul-care which parallel and resonate with Eastern approaches. We will learn what is distinctive to Western approaches with selections from Socrates, Jesus, Paul, Plotinus, Augustine, Eckhart, Alchemy, Freud, Jung and Foucault. Students will not only gain knowledge of this lost road in Western culture, but also an understanding of themselves. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2551 Health Ethics examines concepts of health and illness and their ethical implications. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2803

2552 Mental Health Ethics examines concepts of mental health and illness and their ethical implications. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2802

2553 Biomedical Ethics examines medical dilemmas from legal and ethical points of view. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2807

2561 Environmental Ethics examines concepts of nature and their ethical implications. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2809

2571 Technology examines concepts of technology and their ethical implications. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2801

2581 Philosophy of Film introduces some of the central philosophers, topics and themes in the philosophy of film. Topics and themes include: the nature of film image, the relationship between film and "reality", the social/political role and function of film and the nature and value of the documentary. The course will also consider the representation of broader philosophical ideas in film. A film or films will accompany each section. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2582 Media Ethics examines ethical issues and dilemmas arising in the realm of the mass media, within the context of foundational ethical theories and major philosophies of mass communication. Topics include the nature

and structure of mass communication, the public sphere, and the role of the media in a functioning democracy. Subtopics include: propaganda, censorship, freedom of speech, and access to information and communication. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2591 Restorative Justice explores the phenomenon of violence. When we understand violence, the need for justice quickly comes into view. With this need, however, comes a complex mixture of personal and political affairs. Justice can be retaliatory or restorative. The meaning and consequences of each kind of approach to justice will be traced through selected ancient and contemporary authors. Some sections of this course may qualify as a Research/Writing course for the B.A. **Core Requirements**. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

CR: the former PHIL 2810

2701 History of Ancient Philosophy (same as Classics 2701) is a survey of the origin and development of Western philosophy among the Greeks and Romans.

CR: Classics 2701

2702 History of Modern Philosophy is a survey of the development of Western philosophy since the 17th century.

CR: the former PHIL 3700, the former PHIL 3701

3110 Intermediate Logic examines techniques and topics in the logic of propositions, of predicates and of induction and probability. Normally the second course in logic.

PR: PHIL 1200 and PHIL 2210 or permission of the Department

10.23.1 Philosophy of...Series

3120 Philosophy of Language investigates various uses of language and its relationship to thought, as well as particular features of language, such as meaning, synonymy, reference, translation and interpretation.

PR: PHIL 1200 or permission of the Department

3150 Philosophy of the Natural Sciences examines major issues in the origins, methods and philosophical implications of science. Science as a form of knowledge; its relation to metaphysics; to more general theories of knowledge. Science and values.

PR: PHIL 1200 or permission of the Department

3160 Hermeneutics, Semiotics and Deconstruction will examine methodological foundations of psychology, cognitive science and the social sciences, Philosophical presuppositions and implications of these approaches to human nature.

PR: PHIL 1200 or permission of the Department

3400 Political Philosophy examines leading philosophical ideas concerning the origin and justification of political institutions.

PR: PHIL 1200 or permission of the Department

3500 Philosophy of Religion (same as Religious Studies 3500) examines the philosophical aspects of religious belief, religious language and theology.

CR: Religious Studies 3500

PR: PHIL 1200 or permission of the Department

3600 Philosophy of the Humanities examines the expression and interpretation in the humanistic disciplines: theology, history, art and literature, language.

PR: PHIL 1200 or permission of the Department

3610 Philosophy and Literature - inactive course.

3620 Philosophy of Art - inactive course.

10.23.2 Ancient, Medieval and Renaissance Series

3730 Plato examines selections from the works of the Greek "lovers of wisdom" - the first philosophers - particularly Plato.

PR: PHIL 1200 or permission of the Department

3740 Aristotle examines the works and legacy of perhaps the most influential systematic thinker of all time.

PR: PHIL 1200 or permission of the Department

3760 Medieval Philosophy (same as Medieval Studies 3004) is developments in Philosophy from Augustine to Ockham.

CR: Medieval Studies 3004

PR: PHIL 1200 or permission of the Department

3790 Late Medieval and Renaissance Philosophy - inactive course.

10.23.3 17th to 18th Century Series

3800 Descartes is a systematic introduction to the works and thought of the "father of modern philosophy".

PR: PHIL 1200 or permission of the Department

3820 Rationalism is a study of rationalism in Descartes, Spinoza, Leibniz and of subsequent developments of this standpoint.

PR: PHIL 1200 or permission of the Department

3830 Empiricism is a study of classical empiricism in the works of Locke, Berkeley and Hume and of later developments of this philosophical standpoint.

PR: PHIL 1200 or permission of the Department

3840 Hume is a study of the work and influence of Hume on theories of knowledge, metaphysics and moral philosophy.

PR: PHIL 1200 or permission of the Department

3850 Kant's Theory of Knowledge is an introduction to the work of one of the most influential thinkers of the modern era, concentrating on his theory of knowledge, particularly as stated in the *Critique of Pure Reason*.

PR: PHIL 1200 or permission of the Department

3851 Kant's Ethics is an introduction to the work of one of the most influential thinkers of the modern era, concentrating on his ethics, particularly as stated in *The Foundations of the Metaphysics of Morals* and *The Critique of Practical Reason*.

PR: PHIL 1200 or permission of the Department

10.23.4 19th Century Series

3860 Hegel examines selections from Hegel's system with emphasis on the nature of dialectical and speculative philosophy and its enormous influence in the present time.

PR: PHIL 1200 or permission of the Department

3870 Utilitarianism examines moral, political and jurisprudential themes in Bentham, J.S. Mill and their followers. Recent utilitarian theories.

PR: PHIL 1200 or permission of the Department

3880 Post-Idealist Thought examines 19th century reactions to idealist systems, the critique of Metaphysics, the rise of Positivism.

PR: PHIL 1200 or permission of the Department

3890 Marxism examines the political, social and historical theories of Marx and Engels and their later developments; themes in Marxist analysis of class and capitalism.

PR: PHIL 1200 or permission of the Department

10.23.5 20th to 21st Century Series

3900 Process Philosophy - inactive course.

3910 Analytic Philosophy examines selections from established texts in contemporary analytic philosophy: Russell, Carnap, Wittgenstein and others.

PR: PHIL 1200 or permission of the Department

3920 Phenomenology is an introduction to the philosophy of Husserl and some of his followers, e.g. Heidegger, Merleau-Ponty.

PR: PHIL 1200 or permission of the Department

3930 Pragmatism examines the pragmatist standpoint from Peirce to the present.

PR: PHIL 1200 or permission of the Department

3940 Existentialism examines the philosophy and literature of Existentialism from Kierkegaard, Nietzsche and Dostoevsky to Sartre, de Beauvoir and Camus.

CR: the former PHIL 3980

PR: PHIL 1200 or permission of the Department

3950 Recent Philosophy - inactive course.

10.23.6 4000-Level and Higher

4100 Seminar in Logic and the Philosophy of Mathematics topics will be announced by the Department.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4110 Seminar in Logic and the Philosophy of Mathematics - inactive course.

4150 Seminar in the Philosophy of Science - inactive course.

4160 Seminar in the Philosophy of Science - inactive course.

4200 and 4210 Seminar in the Philosophy of Mind - inactive course.

4250 and 4260 Seminar in Metaphysics and Epistemology topics will be announced by the Department.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4300 and 4310 Seminar in Ethics topics will be announced by the Department.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4350 and 4360 Seminar in the Philosophy of Law - inactive course.

4400 and 4410 Seminar in Political Philosophy - inactive course.

4450 and 4460 Seminar in the Philosophy of History - inactive course.

4500 and 4510 Seminar in the Philosophy of Religion - inactive course.

4520 and 4530 Seminar in Philosophical Background to Literature - inactive course.

4550 Seminar in the Philosophy of Language - inactive course.

4560 Seminar in the Philosophy of Language - inactive course.

4600 and 4610 Seminar in Aesthetics - inactive course.

4700-4790 Seminar in Special Authors and Texts will be announced by the Department.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4800-4890 Seminar in Twentieth- and Twenty-First Century Philosophy topics will be announced by the Department.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4900 Advanced Readings in Ethics is an individualized course tailored to the specialized moral interests of each student.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4998 Comprehensive Examination is part of the Honours program.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

4999 Honours Essay is part of the Honours program.

PR: 6 credit hours in courses at the 3000 level or permission of the Department

5000 Instructional Field Placement in Applied Ethics is a part-time, one semester period of practical work designed to provide experience in medical, psychiatric, environmental, or other similar settings. Students may be placed, e.g., in a government policy office or a hospital.

UL: applicable only towards the **Diploma in Applied Ethics**

10.24 Police Studies

Police Studies courses are designated by PLST.

2000 An Introduction to Policing in Canada will examine the organization of policing, its mandate and operation. It will provide an overview of the history and development of policing in Canada; examples from Newfoundland and Labrador will be used where appropriate. It will discuss the various roles and responsibilities of the police in society. It will explore the issue by police decision making, the exercise of police powers, and the use of discretion by police officers. Several other issues relating to policing will be discussed including police recruitment and training, the professional role of the police, stress on the job and policing in a diverse society.

3000 Crime Victims and Policing will provide an opportunity to explore contemporary victim issues, in particular, as they relate to enhancing police response and sensitivity to the needs of victims. The course will explore different types of victimization, encourage critical analysis and understanding of the impact of the CJS on victims and the role of the victim in bringing about progressive and positive changes in the CJS. It will consider recent legislative developments, programs, services and emerging issues and discuss how victim engagement can promote public confidence in the administration of justice.

PR: a minimum of 60 credit hours, including PLST 2000 and two additional courses from the **Elective Courses List** under the **Major Program in Police Studies**

3100 Gender, Crime and Criminal Justice examines the gendered aspects of criminal offending, victimization, criminal justice responses (police, courts, corrections), and workers in the criminal justice system.

PR: a minimum of 60 credit hours including PLST 2000 and Sociology 1000

3200 Internship is a part-time unpaid placement with a police department, Provincial Corrections, or various areas of the Department of Justice

including the Sheriff's Office and Correctional Facilities. The number of openings varies and admission to the course is selective and competitive. Placements are for 12 weeks, eight hours a week, in addition to a regularly scheduled class meeting.

PR: a minimum of 60 credit hours including PLST 2000 and three additional courses from the **Elective Courses List** under the **Major Program in Police Studies**

3500 Investigative Interviewing will introduce students to investigative interviewing. It covers a range of topics that will help develop and/or improve the interviewing skills of those working in various disciplines where professional interviewing skills are essential.

PR: completion of a minimum of 60 credit hours

4000 Advanced Issues in Policing provides in depth discussion of various aspects of policing. It will discuss how social, economic and political factors influence the challenges of policing in a democratic society. It will look at police powers of arrest, search and release and how they are affected by the Charter of Rights and Freedoms. The different types of offences found in the Criminal Code and the special knowledge required to police them will be covered. The course will consider the use of police discretion, police misconduct and accountability and ethics in policing. It will also look at officer safety and stress in the work place. Several special topics related to policing will be discussed including: policing persons with mental illness, policing drug related offences, and policing racially diverse communities.

PR: a minimum of 60 credit hours including PLST 2000 and three additional courses from the **Elective Courses List** under the **Major Program in Police Studies**

4001 Police Decision Making and Ethics provides students with the tools to locate, critically review, and summarize the findings and practical implications of police research on key topics. These topics include the influence of discretion on police powers and the importance of ethics and accountability in policing. The course will also discuss police officer stress and how it is influenced by ethical dilemmas. Examples of misuse of discretion and ethical dilemmas will be discussed.

PR: a minimum of 60 credit hours including PLST 2000 and three additional courses from the **Elective Courses List** under the **Major Program in Police Studies**

5000 Instructional Field Placement in Police Studies is a one-semester course offered in the Spring semester, following completion of ten courses specified for the **Diploma Program in Police Studies**, designed to integrate knowledge acquired in coursework with the training curriculum provided by the Royal Newfoundland Constabulary to its recruit cadets. In consultation with the course instructor, students will prepare and submit a reflective report linking their observation of and instruction in the practical techniques and methods of police work with the broad range of knowledge acquired in other courses taken in the diploma program.

CH: 6

CO: completion of two semesters of course work in the **Diploma Program in Police Studies**, admission to the **Diploma Program in Police Studies**, and good standing as a recruit cadet of the Royal Newfoundland Constabulary

PR: completion of two semesters of course work in the **Diploma Program in Police Studies**, admission to the **Diploma Program in Police Studies**, and good standing as a recruit cadet of the Royal Newfoundland Constabulary

10.25 Political Science

Political Science 1000 provides an introduction to the study of politics, power, law, public policy and government. Courses at the 2000-level offer an introduction to major fields and can be taken beginning in a student's first year of study. Courses at the 3000-level usually assume that students have completed at least two courses in Political Science including the corresponding 2000-level introductory course. At the 4000-level, courses are advanced seminars with small enrollment caps, and therefore have formal prerequisites.

The second digit in each course number designates a field in Political Science. Students interested in notionally concentrating in an area may be guided in their course selections, as follows:

Second Digit

0 General & Research techniques

1 Political theory

2 International politics

3 Comparative politics

6 Public policy and public administration

8 Canadian politics

9 Special topics

Enrollment in Political Science courses is limited. First priority is given to students registered as an Honours, Major or Minor in

Political Science. During this time other students may be temporarily placed on a wait list.

Political Science courses are designated by POSC.

1000 Introduction to Politics and Government is an introduction to basic concepts in the study of politics, power, law, public policy and government, touching on major areas of political ideologies, institutions, and current domestic and international political issues. Suitable for students in all disciplines seeking an introduction to Political Science.

1010 Issues in Canadian Politics explores some of Canada's most pressing and interesting political issues. This course profiles important political problems facing federal and provincial politicians and society. Suitable for students in all disciplines who have an interest in Canadian politics and who wish to develop a basic awareness of Canadian government.

1020 Issues in World Politics explores some of the world's most pressing and interesting political issues. This course profiles important political problems, such as a power struggle within a particular country, a controversial topic that affects an entire continent, or a major crisis that has implications for inhabitants around the world. Suitable for students in all disciplines who have an interest in international politics.

2010 Research and Writing in Political Science provides an overview of the research and analysis skills used in Political Science. Students can expect to learn about library research, electronic data gathering, and the elements of strong essay writing which can be applied across disciplines in the social sciences. The "political" content will vary by instructor and will address more specific topics than those ordinarily covered in 2000-level Political Science courses. This course qualifies as a Research/Writing course.

PR: POSC 1000

2100 Introduction to Political Theory is a survey of the most important political thinkers and schools of political thought. The course will ordinarily cover major political thinkers and include a selection of contemporary political ideologies.

CR: the former POSC 2000

2200 Introduction to International Politics is an examination of the "building blocks" of international politics including determinants, means, processes and ends. Emphasis is on the post-1945 period.

2300 Introduction to Comparative Politics is an introduction to comparative politics and techniques of comparative analysis across political jurisdictions. This course focuses on the differences between, and similarities among, a variety of countries and systems of government.

2600 Introduction to Public Policy and Administration outlines major concepts in, and issues relating to, the fields of public policy and administration.

CR: the former POSC 3540

2800 Introduction to Canadian Politics and Government is an introduction to the structure and operations of institutions of Canadian government and the nature of political actors. Topics to be examined may include the constitution, federalism, parliament, political parties, political culture and elections.

CR: the former POSC 2710

2990 Europe in the Twentieth Century is a pre-Harlow course which examines the social, economic and political history of Europe from World War I to the present. It examines the shift from war and depression to peace and prosperity. Examining the rise and demise of fascism and communism, postwar reconstruction, and Europe's changing position in the world, this course explores the interplay between domestic and international politics and Europe's position in the international order. This course is recommended for Political Science students considering a Harlow semester, exchange programs in Europe, or further courses in European politics.

CR: European Studies 2000, History 2350, the former POSC 2350

3010 Empirical Methods in Political Science is an introduction to basic concepts in the scientific approach to studying politics, and provides students with the fundamental skills for conducting empirical research using both qualitative and quantitative methods. These skills include how to construct a research project, and how to collect and analyze information.

PR: POSC 2010 or 9 credit hours in Political Science; enrollment in the Political Science Honours, Major or Minor program

3100 Political Theory from Plato to Rousseau examines selected political theory from Plato to Rousseau. The theme of the course is the development of liberal democratic theory.

3110 Political Theory from Tocqueville to Present examines selected political theory from Tocqueville to the present. The theme of the course is the crisis in liberal democratic theory.

3140 Feminist Political Theory examines feminist scholarship that has challenged previously accepted notions in political theory, including

definitions of politics itself, the distinctions between public and private, the nature of citizenship, and the roles of women in civil society. This course considers different ways of looking at gender and political culture in modern societies, examining these such as gender and democracy, race and class, poverty and welfare, sexuality and morality.

3210 International Law is an introduction to international law concerned with the interaction of the political and legal systems. Topics discussed are sources, agreements, membership, recognition, territory, jurisdiction, immunities, state responsibility, and force and war.

3220 International Organizations examines the origins, structures and roles of international organizations as both 'arenas' in which states pursue their interests and 'evidence' of an embryonic international society. The focus will be primarily on the workings of the United Nations, especially its 'collective security' function, and other regional security organizations.

3250 International Political Economy studies the interaction between world politics and international economics. Major theoretical debates regarding globalization and multinational corporations are covered, as well as current topics such as: the politics of the global monetary and financial order, international trade, foreign investment and debt, international development, and environmental issues.

3280 Canadian Foreign Policy is an introduction to the analysis of foreign policy, with special reference to domestic and international constraints, capabilities and ideology.

CR: the former POSC 3200, the former POSC 3760

3290 Human Security examines political concepts and government policies related to security contexts, such as the displacement of citizens, food supply issues, energy, information flows, war and/or the environment.

CR: the former POSC 3391

3300 European Politics is a comparative study of government and politics in selected states of Western Europe. Emphasis will be on parties, institutions, and policy-making, particularly the ways in which states manage their economies.

3305 Irish Politics introduces students to the politics of the Republic of Ireland. Topics covered include the historical origins of the state, the political influence of the Roman Catholic Church, the evolution of political institutions, as well as the evolving relationship with Northern Ireland, Europe and the world.

3310 American Politics examines the governmental process in the United States including the role of parties and interest groups. This course will also consider select contemporary problems.

3315 Latin American Politics is an analysis of the forces influencing politics in contemporary Latin America with particular emphasis being given to those factors promoting political change. No prior knowledge of Latin America is assumed.

CR: the former POSC 3430

3325 South Asian Politics analyzes the history and development of political change in a selection of South Asian states with a focus on the contemporary challenges that they face in a globalized political environment.

CR: the former POSC 3420

3340 Women and Politics examines the role of women in the political process in comparative context. Topics may include the political socialization, organization, and recruitment of women; voting behaviour, and the organization of governmental institutions as a response to the concerns of women.

3350 Public Opinion and Voting looks at the measurement and formation of political attitudes, factors affecting attitude stability and change, and the distribution of opinion in society. Emphasizes public opinion and voting behaviour in the United States and Canada during campaigns and interelection periods.

CR: the former POSC 3510

3390 Political Parties is a study of political parties in liberal democracies. Attention is given to the origin and development of parties, how they organize, multiparty competition and what difference parties make. Political parties in Europe, the United States, and Canada are considered in a comparative context.

CR: the former POSC 3531

3600 Public Policy in Canada is an examination of the relationship between public policy development in Canada and changes in the social and economic policy environment.

CR: the former POSC 4790

3610 Public Administration in Canada is an introduction to public administration, history of the public service in Canada, an examination of the structure and functioning of contemporary federal and provincial governments. Topics covered include cabinet organization, financial and personnel management, collective bargaining, and bilingualism.

CR: the former POSC 3741

3620 Law and Society reviews traditional theories about law, discuss their inadequacies, and consider the benefits of a policy-oriented approach to the study of the role of law in society. The concept of law as a process of authoritative decision will be used to examine the function of the judicial authority.

CR: the former POSC 3521

3650 Canadian Political Economy introduces students to major debates about the role of the state in Canadian economic development and public policy. Topics may include: the challenges of natural resource dependency, regionalism, globalization, and the relationship between Canada and the United States.

CR: the former POSC 3751

3681 Corrections Policy in Newfoundland and Labrador examines how various political, social and economic forces have helped shape correctional policy and practice in Newfoundland and Labrador.

CR: the former POSC 3791

3800 Federalism in Canada examines relationships between government in the Canadian federation ranging from high-profile disputes to efficient diplomacy. This course reviews longstanding intergovernmental stresses such as the constitution, legislative powers, legal matters, sub-state nationalism (e.g., Quebec, Newfoundland, Labrador) and wealth distribution.

CR: the former POSC 3710

3810 Political Executive in Canada explores executive institutions and the roles of political actors, such as prime ministers, premiers and ministers, in addressing and shaping important political issues in Canada.

CR: the former POSC 2711

3820 Constitutional Law in Canada uses a casebook approach to examine critical issues of Canadian constitutional law. The development of the Canadian Constitution and processes of judicial review, as well as the legal development of federalism and protection of civil rights, are examined in detail.

CR: the former POSC 3720

3830 Aboriginal Government and Politics in Canada is an introductory course in Aboriginal governance. It examines Aboriginal culture and traditions, the variety of Aboriginal governments and governing traditions, and Aboriginal and treaty rights. Public policy issues surrounding categories of Aboriginal peoples, intergovernmental relations affecting them, and the role and significance of Aboriginal political organizations and actions are explored.

3860 Media and Politics in Canada draws upon communications theory to analyze major political problems and processes. Specific attention is given to Canadian politics in the news and to various print, broadcast and online media.

CR: the former POSC 3511

3870 Provincial Politics is a comparative study of politics in selected Canadian provinces and territories. Consequences of varying historical and cultural contexts will be examined with special attention to parties and movements, leadership styles, and orientations to the Canadian federation.

CR: the former POSC 3770

3880 Newfoundland and Labrador Politics is a study of the political process in Newfoundland and Labrador. Topics may include electoral behaviour and attitudes, the party system, leadership styles, the consequences of federalism, and public administration.

CR: the former POSC 3780

3890 Municipal Politics is an examination of the theory, structure and operation of local governments in Canada, with particular emphasis on Newfoundland and Labrador. Recent proposals for reform and the politics of implementing regional government and financial reorganization will be examined.

CR: the former POSC 3790

3900-3979 Special Topics in Political Science will have topics announced by the Department.

CR: credit restrictions will be designated on a course-by-course basis

3980-3999 Special Topics in European Politics is offered only at the Harlow (England) campus and explore selected facets of the politics of contemporary Europe. Typical themes include the European Union and its member-states, asylum and immigration, social and economic policy, foreign policy and the position of Europe in the international system. For further information about the Harlow semester consult the Department or the Faculty of Arts.

CR: credit restrictions will be designated on a course-by-course basis

4010 Honours Essay I develops independent research and writing skills through regular meetings with a research supervisor, the preparation of an approved research proposal, and the completion of a high quality draft of at least one section of the Honours essay. Students are expected to follow the Department's "Guidelines Governing Honours Essays". Prior to enrolling, and ideally a semester in advance, students should contact the Head of the

Department to identify a potential supervisor.

CR: the former POSC 4950

PR: enrollment in the Honours program and permission of the Head of the Department

4011 Honours Essay II builds on skills developed in POSC 4010, requires students to complete the writing of their Honours essay, including submitting a high quality complete draft at the midpoint of the semester, with the final complete document to follow soon afterwards. Students are expected to meet regularly with their research supervisor and to follow the Department's "Guidelines Governing Honours Essays".

CR: the former POSC 4951

PR: completion of POSC 4010 with a minimum grade of 70%

4100 Approaches to Political Theory is an introduction to the interpretation of political texts. Features historical and hermeneutical approaches to the study of Political Science.

PR: POSC 2100 or a POSC 31xx course, or the instructor's permission

4110 Multicultural Citizenship discourses on multiculturalism in contemporary political theory from a normative perspective. Focuses on the justice and equality frameworks within which multiculturalism is understood, and the challenges arising from pluralism in democratic societies.

PR: POSC 2100 or a POSC 31xx course, or the instructor's permission

4120 Contemporary Democratic Theory examines significant debates in the contemporary scholarship on democratic theory, such as the relationship between democratic decision-making and individual liberty; who "the people" are in democratic states and how they make their will known; whether democracy depends upon a sense of collective identity; and whether democracy is inherently exclusionary.

PR: POSC 2100 or a POSC 31xx course, or the instructor's permission

4200 International Law and Politics is a research seminar on contemporary Canadian legal problems. Each semester will focus on one problem, such as Northern sovereignty, pollution, fishing zones or control of the sea.

PR: POSC 2200 and a POSC 32xx course, or POSC 3210, or the instructor's permission

4210 Arms Control and Proliferation examines the evolution of arms control and considers the consequences of success and failure.

PR: POSC 2200 and a POSC 32xx course, or the instructor's permission

4215 Human Rights and International Politics examines the evolution of global norms of human rights and consequences for the structures of the international system, international civil society, and the international political process.

PR: POSC 2200 and a POSC 32xx course, or the instructor's permission

4230 Theories of International Relations examines the major theories used to understand world politics and international conflict, such as constructivism, feminism, game theory, historical structuralism, liberalism, and realism. These are explored through classic readings in international relations and case studies.

PR: POSC 2200 and a POSC 32xx course, or the instructor's permission

4250 The European Union is an examination of the European Community as an emergent transnational form of governance. The course will consider the origins of the Community, the operation of its institutions, its transformation from Common Market to European Union, and the ways in which EC politics impinges on national-level politics.

CR: the former POSC 3291

PR: POSC 2200 and a POSC 32xx course, or POSC 3300, or the instructor's permission

4255 Controversies in Political Economy examines current political and public policy challenges from a political economy perspective. Topics may include globalization, major trade disputes, currency and debt crises, economic development and global environmental problems.

CR: the former POSC 4350

PR: POSC 2200 and a POSC 32xx course, or the instructor's permission

4280 American Foreign Policy reviews the structures, process and major foreign policy perspectives of the United States of America in a global context.

CR: the former POSC 3200

PR: POSC 2200 or a POSC 31xx course, or POSC 3310, or the instructor's permission

4310 Comparative Federalism examines theories of federalism along with the development and operation of federalism in selected nation states.

PR: POSC 2300 and a POSC 33xx course, or POSC 3800, or the instructor's permission

4330 Comparative Political Representation studies the role of both the public and political institutions in affecting political and policy outcomes. Topics will address the nature of political institutions, public demands, and evidence regarding how interests are facilitated through the political process.

CR: the former POSC 4313

PR: any POSC course at the 2000 level or higher, or the instructor's permission

4340 Women and Mass Politics focuses on the gender gap in both political behaviour and participation. Focusing primarily on Canada and the United States, this course assesses patterns of involvement in political institutions, and examines differences between men's and women's political attitudes.

CR: the former POSC 4503

PR: 2300 and a POSC 33xx course, or POSC 3140 or 3340, or the instructor's permission

4360 Contentious Politics - Protest, Violence and Terrorism examines protest and movement politics, insurgent and counter-insurgent politics, terrorism, and revolution.

CR: the former POSC 4740

PR: POSC 2300 and a POSC 33xx course, or the instructor's permission

4370 Democracy and Democratization is a comparative study of the conditions necessary to develop and sustain democratic regimes and the circumstances under which transitions to democracy succeed or fail. The course will examine theoretical materials and apply them to recent and historical transitions to democratic rule.

CR: the former POSC 4301

PR: POSC 2300 and a POSC 33xx course, or the instructor's permission

4380 The Developing World considers the practical and theoretical issues that affect the chances of the over five billion inhabitants of the developing world to secure democratic governance and material well-being.

CR: the former POSC 4450

PR: POSC 2300 and a POSC 33xx course, or the instructor's permission

4600 Public Policy Work Internship provides career-related policy work experience with government, a political party, a non-governmental organization, a union, or another employer involved in public affairs. Job placements are for twelve weeks at eight hours per week and are typically unpaid. Class meetings and course work are required. Admission is selective and competitive. Details are available on the Department's website at www.mun.ca/posc. Enrollment constitutes permission for the course administrator to provide the student's transcript to a potential employer.

CR: POSC 460W, the former POSC 4000

PR: a minimum 60 credit hours, including at least 15 credit hours in Political Science courses with a minimum 70% average, and permission of the instructor

4630 Policy Analysis is a survey of the major frameworks for the study of public policy, including decision-making theories. The course examines different stages in the policy-making process, such as policy initiation, priorities planning, choice of governing instruments, implementation and evaluation in relation to the objective and normative factors in Canadian policy environment, key institutions, dominant interests, and political leadership.

CR: the former POSC 3730

PR: POSC 2600 and a POSC 36xx course, or POSC 3600, or the instructor's permission

4650 Public Policy in Resource Dependent Economies examines the political economy of Canada's human and natural resources, such as labour, energy, fisheries, forestry, mining, and water. The political consequences of natural resource dependency on the environment and Aboriginals are also discussed.

CR: the former POSC 4731

PR: POSC 2600 and a POSC 36xx course, or the instructor's permission

4680 Public Policy in Newfoundland and Labrador is a study of public policy in Newfoundland and Labrador. Examines the formation, implementation and impact of policies in one or more of the following areas: fisheries, resources, industrial development, agriculture, social policy.

CR: the former POSC 4730

PR: POSC 2600 and a POSC 36xx course, or POSC 3600 or 3880, or the instructor's permission

4860 Elections in Canada is an examination of election campaigns and electoral systems in the Canadian political system, with an emphasis on students, parties, voters, electioneering activities and campaign regulations.

CR: the former POSC 3700

PR: POSC 2800 and a POSC 38xx course, or POSC 3350, 3390, or 3860, or the instructor's permission

4870 Regionalism in Canada is an examination of the economic, social, and institutional determinants of regionalism and the ways in which these forces have shaped decision-making in Canada. Emphasis on the various models and frameworks used to study regionalism.

CR: the former POSC 4750

PR: POSC 2800 and a POSC 38xx course, or POSC 3800 or 3870, or the instructor's permission

4880 Research in Newfoundland and Labrador Politics requires students to participate in advanced research projects dealing with selected aspects of the politics of Newfoundland and Labrador. Topics to be considered may include the legislature and the executive, the civil service, interest groups,

parties, elections and political recruitment.

CR: the former POSC 4780

PR: POSC 2800 and a POSC 38xx course, or POSC 3880, or the instructor's permission

4900-4990 (Excluding 4950 and 4951) Special Topics in Political Science will have a seminar topic announced by the Department.

CR: will be designated on a course-by-course basis

PR: will be designated on a course-by-course basis

10.25.1 Work Terms

The following Work Terms are requirements for the Bachelor of Arts Honours (Co-operative) and Bachelor of Arts (Cooperative) programs only.

260W Work Term 1 for most students this represents their first work experience in a professional environment. They are expected to learn, develop and practice the high standards of behaviour normally expected in the workplace. They are normally required to attend seminars on professional development.

OR: Professional development seminars, delivered by Co-operative Education Services Centre (CESC), are presented in the previous semester to introduce and prepare the student for participation in the subsequent work terms. Topics may include, among others; résumé preparation; interview training; work term evaluation; preparation of reflective essays; career planning employment seeking skills; self-employment; ethics and professional concepts; behavioural requirements in the workplace; assertiveness in the workplace; and industrial safety.

PR: enrollment in the **Political Science Co-operative Education Program (PSCE)**; 18 POSC credit hours; a minimum overall average of 65% and a minimum average of 70% in POSC courses; and permission of the designated faculty member. A candidate for a Political Science Honours or Major who completed a minimum of 18 credit hours in Political Science prior to September 2011 and who is not pursuing the co-op option may apply to enroll in POSC 260W. Priority will be given to PSCE students.

360W Work Term 2 building on their first work term placement students will further develop their knowledge and work-related skills in a position that entails increased responsibility and challenge. Students are expected to demonstrate an ability to deal with increasingly complex work-related concepts and problems.

PR: enrollment in the **Political Science Co-operative Education Program (PSCE)**; 27 POSC credit hours; POSC 260W; a minimum overall average of 65% and a minimum average of 70% in POSC courses; and permission of the designated faculty member

460W Work Term 3 building on their previous work term placements and Political Science course knowledge students will be assigned to a highly challenging position. They should have sufficient academic grounding and work experience to contribute in a positive manner to the problem-solving and management processes needed and practiced in the work environment. Students should become better acquainted with their discipline of study; should observe and appreciate the attitudes, responsibilities and ethics normally expected of professionals; and should exercise greater independence and responsibility in their assigned work functions.

CR: POSC 4600

PR: enrollment in the **Political Science Co-operative Education Program (PSCE)**; a minimum third-year standing and 33 POSC credit hours; POSC 360W; a minimum overall average of 65% and a minimum average of 70% in POSC courses; and permission of the designated faculty member.

10.26 Religious Studies

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Religious Studies courses are designated by RELS.

1000 The Religions of the World is an introduction to the basic beliefs and practices of the world's great religions.

CR: the former RELS 2010

1010 Religion in the Modern World is an introduction to some of the major issues confronting religion in the modern world. The focus will be on such topics as globalization and religion, religious faith and violence, freedom and authority.

1020 Christianity in Western Civilization is an introduction to Christianity and its place in the history of Western civilization through examples from Early Christianity, the Reformation, and the Modern Period.

1021 Apocalypse: The End Times in Thought, Action, and Imagination will explore the many ways in which Judaism and Christianity have anticipated and imagined the end times. Attention will be given to Jewish and early Christian notions of the Messiah and his reign, the end of the world, and the impending judgment, as well as how Christianity has coped repeatedly with the delay of the end and how millennial thought and action have affected people during periods of social and natural crises. The role of millennial expectations in our modern era and why the apocalypse is once again a powerful image in religion, film, and literature will also be covered.

1022 Jesus in Film is a study of how Jesus is represented in modern film. The course explores the continuing impact that the Jesus of history and faith has had on modern Western culture. The course will examine such films as *The Greatest Story Ever Told*, *The Robe*, *The Gospel According to St. Matthew* (by Pasolini), *Jesus Christ Superstar*, *Jesus of Montreal*, *The Last Temptation of Christ*, *The Life of Brian*, *The Passion of the Christ*, *The Newfoundland Passion* (video of the Squires' Paintings).

1032 Introduction to Asian Religions and Culture is a broadly based survey course introducing students to the religions, culture, and societies of Asia. Traditions explored may include those of India (Hinduism, Buddhism, Sikhism, Jainism), China (Daoism, Confucianism, Buddhism), Japan (Shinto, Zen Buddhism), and Korea.

1040 Introduction to Chinese (Mandarin) I will introduce students to the basics of Chinese vocabulary, characters, and grammar. Mandarin Chinese, the official dialect of China, Taiwan, and Singapore, will be taught. This course is not intended for native speakers.

CR: the former RELS 4904

1041 Introduction to Chinese (Mandarin) II is a continuation of RELS 1040. At the end of this course students should know over a hundred Chinese characters, which should enable them to read basic texts and carry on a simple conversation. This course is not intended for native speakers.

CR: the former RELS 4911

PR: RELS 1040

1050 Introduction to Biblical Hebrew I is designed to introduce students to the elements of Biblical Hebrew in order to prepare them for reading the Hebrew Bible/Old Testament in the original. The emphasis will be upon learning the basic grammar and syntax of Biblical Hebrew.

CR: the former RELS 3700, the former RELS 4900

1051 Introduction to Biblical Hebrew II is a continuation of RELS 1050. The emphasis will be upon the reading of selected Hebrew texts.

CR: the former RELS 3701, the former RELS 4901

PR: RELS 1050

1200 The Bible in Western Religion and Culture is an introduction to the Bible and its impact on literature, art, film, and music in Western culture. This course explores both the basic story line, characters, and themes in the Bible and the Bible's foundational role in the depiction and development of Western culture.

2013 Introduction to Christianity is a study of the Christian tradition, its development and variety. The course will include an examination of the beliefs and practices of both Eastern and Western Christianity and a study of the main differences among the major Western denominations.

2050 Introduction to the Old Testament is an introduction to the historical background, literary structure, and content of the Old Testament. Emphasis will be placed on the authorship and dating of the various texts that comprise the Old Testament, as well as on major themes, figures, and events. This course may qualify as a Research/Writing course. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2051 Introduction to the New Testament is an introduction to the history and literary structure of the documents comprising the New Testament. Emphasis will be placed on the major themes found in these documents and on the distinctiveness of approach of the individual writers.

2130 Christianity from the First Century to the Middle Ages explores the historical development of the principal doctrines of Christianity from the period of the Early Church to the Middle Ages. Topics will include the doctrine of the Trinity, the doctrine of the Person of Christ, the nature of the Church, the doctrine of the sacraments, and early and medieval speculation on the nature of Heaven and Hell.

2140 Christianity from the Reformation to the Present explores the radical religious, ethical, and intellectual changes and challenges that brought about the modern world we live in: the Reformation, the Enlightenment, the Romantic Period and Pietism, and Secularism. This course may qualify as a Research/Writing course. Prior to registration a list of courses which may be used as a research/writing course will be posted on the website of the Faculty of Arts at www.mun.ca/arts.

2302 Readings in New Testament Greek - inactive course.

2330 Introduction to Judaism is an exploration of Judaism from its beginnings to the modern era. This course introduces students to the basic

beliefs and practices of the Jewish faith.

2340 Introduction to Islam is a study of the religion of Islam in its historical and contemporary manifestations; Muhammad, the Qur'an, Islamic sects, relations with Judaism and Christianity; trends and developments in contemporary Islamic thought and practice.

CR: the former RELS 3340

2350 Religious Institutions (same as Anthropology 2350) is a comparative study of religious institutions and beliefs, calendrical feasts and solemnities, religious roles and hierarchies, ritual innovation and revitalization.

CR: Anthropology 2350, the former Sociology/Anthropology 2350, the former Sociology 2350

2400 Introduction to Buddhism is a study of the history of the Buddhist tradition in India and China, the development of the main lines of Buddhist thought, and the nature of the Chinese transformation of Buddhism.

CR: the former RELS 3400

2410 Introduction to Hinduism involves a study of the religious thought and history of India, the literature of Hinduism, the major thinkers in Hindu philosophy, and the role of Hinduism in the culture and society of India.

CR: the former RELS 3410

2415 Gods and Goddesses of Hinduism is focussed on myth, iconography and ritual of Hindu gods and goddesses from the ancient to the contemporary period. The course will explore fundamental assumptions of Hindu theistic traditions in popular practice and in formal religious institutions.

2420 Introduction to Chinese Philosophy and Religion is an introduction to the principal forms of tradition to emerge in China. This course examines the origins and development of Confucianism, Daoism, Moism, and Legalism. After exploring the social and historical conditions that gave rise to them, the course will explore their continuing development and role in Chinese society.

2425 Contemporary Issues in Chinese Religion and Culture is an examination of religion in modern China and the Chinese diaspora in Taiwan, Singapore, and North America. Special attention will be paid to religious beliefs, practices, and institutions and the way in which modern attitudes have been framed by the past.

CR: the former RELS 3425

2430 Introduction to Japanese Religions is an examination of the nature and development of Shinto, the history and characteristics of the major sects of Japanese Buddhism, and the origins and importance of the New Religions of the 19th and 20th centuries, especially Tenrikyo and Soka Gakkai.

CR: the former RELS 3430

2610 Introduction to Religious Ethics is an introduction to religious ethics through the systematic study of selected writers and issues in biomedicine, human sexuality, and social justice. Possible topics for discussion include euthanasia, abortion, poverty, and unemployment.

CR: students who have successfully completed both the former RELS 2600 and the former RELS 2601 may not receive credit for RELS 2610

2800 Women in Western Religions is an examination of the attitudes toward, and roles of, women in the Western religions, including prehistoric traditions, Judaism, Christianity, and Islam. Contemporary evaluations of these traditions from the point of view of women will also be considered.

2801 Women in Eastern Religions is an examination of the history of women in the traditions of Hinduism, Buddhism, Confucianism, Taoism, and folk traditions in Asia. The modern status of women in Asia and its relationship to traditional religious ideas will also be studied.

2810 Religion and Modern Culture is an historical examination of the impact of science on religion in Western culture. Particular emphasis will be placed on such developments as the scientific revolution, the rise of modern technology, and the emergence of modern scientific theories.

2811 Introduction to Contemporary Religious Movements is an introduction to contemporary religious movements in the West, including modern witchcraft, Neo-pagan religions, Mother Earth Spirituality, UFO religion, and the New Age Movement.

2812 Religion and Popular Culture will focus on the portrayal and treatment of religion in popular culture and will examine some of the ways in which religious and mythic themes are expressed in such pop culture forums as television shows, films, music, mass-market fiction, and material culture.

2820 Cults and New Religious Movements - inactive course.

2830 Religion and Popular Music is an introduction to the study of religious themes in popular music. The course will explore the influence of religious music on popular music and song and examine the role of music and song in the expression of religious themes.

2850 Religion in Contemporary Canada examines contemporary religious

practices in Canada. Its perspective will be historical and sociological. It will examine indigenous traditions, the beginnings of Christianity in Canada, and how shifts in immigration policy have encouraged a diversity of contemporary religious practice. It will conclude by examining religion in contemporary Canada, particularly issues of religion and public policy (related to the Multiculturalism Act) and to shifting Christian membership.

3000 Medieval Books (same as English 3002, History 3000, and Medieval Studies 3000) is an examination of the development and role of the manuscript book during the Middle Ages. Topics covered will include book production and dissemination; authors, scribes and audiences; and various kinds of books (e.g. glossed Bibles, anthologies, books of hours, etc.) and their uses.

CR: English 3002, History 3000, and Medieval Studies 3000

PR: Medieval Studies 2000, 2001 or 2002 or permission of the instructor

3010 Greek Religion (same as Classics 3010) is a study of the role of religion in the private and public life of the Greek world.

CR: Classics 3010, the former RELS 3121, the former Classics 3121

3020 Roman Religion (same as Classics 3020) is a study of the role of religion in the private and public life of the Roman world.

CR: Classics 3020, the former RELS 3121, the former Classics 3121

3031 The Book of Genesis introduces students to one of the founding texts of Western culture, the book of Genesis. Special attention will be paid to the role of myth, human origins, values, and political institutions.

CR: the former RELS 3030

3053 Anthropology of Religion (same as Anthropology 3053) is a critical evaluation of anthropological research on religion, centering on seminal thinkers and major theoretical traditions. Special attention is given to the study of belief systems, and to relationships between belief and ritual.

CR: Anthropology 3053

3060 The Prophets of Israel is a study of the prophets through the relevant books of the Old Testament. Problems of text and interpretation will be discussed in relation to selected passages, but the general approach will be to bring out the creative genius and radical implications of the prophetic movement as a whole.

3091 Visions of Human Suffering in the Hebrew Bible introduces students to the universal problem of human suffering as it is depicted in various biblical books. Special attention will be placed on the book of Job, but notions of suffering in the Psalms, Jeremiah, Proverbs, Ecclesiastes, and some apocryphal literature will also be considered.

CR: the former RELS 3090

3150 Early Christian Thought: The First Five Centuries (same as Classics 3150) is an advanced study of selected themes and personalities in Christian thought and literature from the second to the sixth centuries. Particular attention will be given to the controversies centering on the doctrines of the Trinity and the Person of Christ.

CR: Classics 3150

3200 Jesus: His Life and Teaching is a study of the ministry and thought of Jesus of Nazareth as contained in the Gospels and other New Testament writings. Attention will be given to the methods and conclusions of recent scholarship as applied to his principal teachings and to the study of the historical Jesus.

3210 Paul and His Writings is a study of the Pauline writings and an appraisal of the contribution to Christianity of his mission and theology on the basis of New Testament and other relevant material. Particular attention will be given to such related themes as salvation, reconciliation, grace, and justification.

3251 The Gospel of John is an examination of the Gospel of John and the community which produced it. Special attention will be given to the place of the Gospel in the history of early Christianity.

3265 Ethics and the New Testament - inactive course.

3270 Christianity and the Roman Empire - inactive course.

3272 Bible, Culture and Interpretation examines ways in which the Bible has been interpreted from the beginnings of Christianity to the present.

CR: the former RELS 3271, the former RELS 4200

3276 Contemporary Issues and the Bible examines the relevance of the Bible to such issues as the environmental crisis, emergent global capitalism, and technology and freedom.

CR: the former RELS 3275

3305 The Religion of Ancient Israel is an exploration of the religious thought and institutions of the kingdoms of Israel and Judah in their cultural and historical contexts from their beginnings to the sixth century B.C.E. The course introduces students to the religious beliefs, practices, and institutions of these two kingdoms prior to their destruction and prior to the development of Judaism in the post-exilic period.

CR: the former RELS 3050

3310 Judaism at the Beginning of the Christian Era will explore the developments in Jewish thought, institutions, beliefs, and practices during the time when Greek and Jewish cultures encountered one another and in which Jesus of Nazareth lived.

CR: the former REELS 3220

3315 The Development of Modern Judaism covers the period from the destruction of the Jerusalem Temple to the present and explores Judaism under the spiritual leadership of the rabbis. Approaching the material from a historical and cultural perspective, the course introduces students to the main developments of the Talmudic, Medieval, and Modern periods.

CR: the former REELS 3302, the former REELS 3303

3320 Mysticism in Judaism and Islam is a study of the origins, development, and importance of mysticism in the Jewish and Muslim traditions. In Judaism, the course will include a survey of Merkavah mysticism, the Qabalah, and Hasidism. In Islam, it will include an examination of the two major streams of Muslim mysticism (Sufism) - the "drunken" and the "sober" - and the development of the Sufi Orders.

3401 Zen, Buddhist Meditation, and Buddhist Psychology examines the relationship between meditation and theories of human psychology in Buddhism from its origins to its formulation in Zen.

3411 The Ramayana: A Hindu Epic and Performance Tradition is a study of one of the most influential Epics of Hinduism, the story of Rama, the perfect king of a golden age. The course examines various versions of the narrative, the social and religious values expressed through the story, and the Epic's place in Indian politics, in dramatic performances, and in visual arts.

3412 The Teachings of the Upanishads is an in-depth examination of some of the principal Upanishads, foundational texts for Hindu religious philosophy and techniques of meditation. The course also examines classical and modern interpretations of these texts.

3415 Warrior, Wife, Witch: Ideal Females and Female Ideals in Hinduism is a study of Hindu constructions of ideal or iconic females (e.g., Durga, the warrior goddess; Sita, the perfect wife; the Yoginis, the "witches" of Tantra) and their power in the lives of Hindu women. The course includes critical examination of the history of Hindu goddess traditions, the ideals for females in Hindu law, and Hindu women's interpretations of "ideal females".

3431 Readings in Daoism: The Laozi and the Zhuangzi is a course in the critical reading of the two most important texts in Daoism, the *Laozi* and the *Zhuangzi*.

CR: the former REELS 3420, the former REELS 3422

3432 Confucius and Confucianism - inactive course.

3500 Philosophy of Religion (same as Philosophy 3500) explores the philosophical aspects of religious belief, religious language, and theology.

CR: Philosophy 3500

3510 Christianity in the Reformation Era is a study of Christian thought and practice in the Reformation era. This course will examine both Protestant and Catholic efforts at reform from the late Middle Ages to the seventeenth century.

3535 Christianity in the Modern Era is a study of Western Christianity from the Enlightenment to the twentieth century through an examination of institutional and intellectual developments as well as changes in popular religious consciousness and practice.

CR: the former REELS 3530, the former REELS 3595

3560 Christian Thought in the Middle Ages (same as Medieval Studies 3003) is a study of the development of Christianity in the West from the eleventh century to the eve of the Reformation, through an examination of its principal thinkers and the most significant societal forces and events: the crusades, the universities, monasticism, religious dissent, and mysticism.

CR: Medieval Studies 3003

3591 Christian Mysticism is a study of the origins and development of the mystical tradition in Christianity from the fathers of the early Church to contemporary spirituality. The course will examine representative writers and writings from both the Western Christian tradition and Eastern Orthodoxy.

3600 Ancient Myth and Cult (same as Classics 3600) develops the students' knowledge of myth and material culture by examining specific religious sites in the Greek and Roman world as foci of ritual practice. Students will learn to integrate knowledge of the physical remains with the literary and ritual evidence in order to obtain a more integrated understanding of religious life in ancient Greece and Rome.

CR: Classics 3600

3640 Religion and Bioethics is an examination of the religious ethics of health care in the light of foundational concepts of bioethics. Topics to be discussed will include the relation of religion and medicine, as well as specific issues such as abortion, euthanasia, and genetic engineering.

3650 Religion and Social Justice is a study of social justice issues that

arise from an investigation of economic and political systems from the perspective of religious ethics. Topics addressed may include environmental ethics, ecofeminism, gender equity, pacifism, civil disobedience, poverty, and social welfare questions.

3680 Religion and the Problem of Evil is a study of religious approaches to the problem of evil. Attention will be paid to both traditional and contemporary efforts among the world's religions to address the problem.

CR: the former REELS 4800

3800 Re/Presentations of Muslim Women: Gender, Colonialism and Islam is presented in three parts. Firstly, there will be a grounding theoretically in Islam, Orientalism, feminism and contemporary political implications related to the study of Muslim women. Secondly, there will be a consideration of topics which have served as explanations for the "difference" of Muslim women in various contexts, both in contemporary Muslim-majority and minority political situations. Lastly, the course concludes by considering a variety of contemporary ethnographic representations of Muslim women in Egypt, Palestine, France, Turkey, Cyprus and Malaysia.

3810 Modern Interpretations of Religion is a study of modern attempts to analyze, interpret, and reassess the place and significance of religion in human life. Attention will be given to thinkers such as Nietzsche, Marx, Freud, Sartre, Otto, Eliade, and Tillich.

CR: the former REELS 3531

3811 Contemporary Alternative Spirituality is an in-depth examination of one or more forms of contemporary alternative spirituality. Students will study the writings of practitioners of alternative spirituality, as well as social-scientific studies of alternative spiritual groups. Religious movements to be explored include African-American alternative spirituality, Mother Earth and Creation spirituality, Neo-paganism, the New Age Movement, UFO spirituality, and contemporary witchcraft.

3812 Religion and Disney: Not Just Another Mickey Mouse Course provides an in-depth examination of religious themes and issues arising from and within the philosophies of Walt Disney, the Disney animated films, other Disney feature films, and the Disney theme parks. Theoretical models drawn from the field of Religion and Popular Culture will provide the lens through which the religious dimensions of Disney and Disney fandom will be explored.

PR: completion of REELS 2812 is recommended but not required

3820 Religion and the Arts (same as Visual Arts 3820) is an examination of the role of art in the expression of religious ideas, together with a study of specific religious themes and concerns in one or more of the following: literature, film, music, painting, sculpture, and dance.

CR: Visual Arts 3820

3830 Religion, Science and Technology - inactive course.

3831 Religious Themes in Contemporary Songwriting is a study of religious themes in contemporary songwriting through the in-depth examination of the work of a selection of contemporary songwriters. The course will explore how religious questions and themes are handled in contemporary song and explore how song as an artistic medium expresses religious meaning. Songwriters to be explored may include the following: Bob Dylan, Bob Marley, Joni Mitchell, Leonard Cohen, Van Morrison, Tori Amos, Nick Cave, Alanis Morissette, Julie Miller, the Louvin Brothers, the Stanley Brothers, Hank Williams, etc.

3850 Religion and Healing - inactive course.

3860 Implicit Religion: The Sacred in Secular Places is an in-depth examination of the concept of implicit religion. The course will explore the concept of "the sacred" through an examination of the ideas of such theorists as Eliade, Turner, and Bailey and will examine the claims of some Religious Studies scholars that the sacred can be found in secular contexts.

3880 Spirituality and the Earth is an examination of the attitudes of various religious traditions to the environment. Special attention will be paid to Native American spirituality.

PR: 3 credit hours in Religious Studies beyond the first-year level or departmental permission

3900 Religion in Newfoundland and Labrador: Beginnings is a study of religion and its role in Newfoundland society from the seventeenth century to the middle of the nineteenth century. Attention will be given to the origin, growth, and consolidation of the Anglican, Roman Catholic, Methodist, Moravian, and Congregational churches.

3901 Religion in Newfoundland and Labrador: The Nineteenth and Twentieth Centuries is a study of religion and its role in Newfoundland society from the middle of the nineteenth century to the present. The course will include the history of the Anglican, Roman Catholic, United (Methodist), Congregational, and Presbyterian churches in Newfoundland and the establishment and social significance of the Pentecostal movement and the Salvation Army.

4201-4230 Biblical Studies: Special Subjects are courses which will be

offered at the discretion of the Department. They are designed to provide an opportunity for students majoring in Religious Studies or doing a strong concentration of courses in the area to pursue advanced study under tutorial supervision.

PR: permission of the Department

4300-4330 World Religions: Special Subjects are courses which will be offered at the discretion of the Department. They are designed to provide an opportunity for students majoring in Religious Studies or doing a strong concentration of courses in the area to pursue advanced study under tutorial supervision.

PR: permission of the Department

4460 Folk Religion - inactive course

4500 and 4510 Seminar in the Philosophy of Religion - inactive course.

4700-4730 Christian Thought and History: Special Subjects are courses which will be offered at the discretion of the Department. They are designed to provide an opportunity for students majoring in Religious Studies or doing a strong concentration of courses in the area to pursue advanced study under tutorial supervision.

PR: permission of the Department

4801-4830 Religion, Ethics, and Modern Culture: Special Subjects are courses which will be offered at the discretion of the Department. They are designed to provide an opportunity for students majoring in Religious Studies or doing a strong concentration of courses in the area to pursue advanced study under tutorial supervision.

PR: permission of the Department

4902-4910 (Excluding 4904) Language Studies: Special Subjects are designed to provide students with some basic knowledge of the languages necessary for studying the original texts of the major world religions. The languages presently offered through the Department are Mishnaic Hebrew, Aramaic, Coptic, Pali, Tibetan, Japanese, Manchu, Arabic, and Chinese. These courses will be offered at the discretion of the Department. They are designed to provide an opportunity for students majoring in Religious Studies or doing a strong concentration of courses in the area to pursue advanced study under tutorial supervision. In addition to those languages mentioned above, courses in Latin and New Testament Greek are available from the Department of Classics and courses in Sanskrit from the Department of Linguistics.

4998 Comprehensive Examination for Honours Students will be based on a program of assigned reading related to the general subject area of the student's dissertation.

4999 Honours Essay for Honours Students may be required as part of the honours program.

10.27 Russian

For Russian course descriptions see under German.

10.28 Sociology

Sociology courses are designated by SOCI.

1000 Introduction to Sociology is an introduction to the concepts, principles, and topics of Sociology. This course is a prerequisite to most departmental courses.

CR: the former SOCI 2000

2100 Social Inequality introduces the subject of social inequality and stratification, examines social inequality in historical perspective, reviews major theories about social inequality, and considers key social developments in contemporary societies in the area of social inequality.

2110 Economy and Society as its principle task, explores different links that exist between economy and society. Emphasis will be put on embeddedness of economic processes in a broader social context. Several approaches to the study of the embeddedness will be discussed: economic sociology, institutional economics, law and economics, and others. Do we really live in a network society, where the most important thing is to 'get connected'? How important is it to trust people in everyday life and to what extent? What role do power and coercion play in our everyday lives? The course will provide guidelines for finding tentative answers to these questions.

2120 Technology and Society is an examination of the role of technology in society. Topics may include the emergence of modern technological society, the impact of new technologies on social organization and culture, and the institutionalization of science and the production of scientific knowledge. The course also explores the ideological functions of science and technology in advanced industrial societies as well as the question of "the domination of nature".

2210 Communication and Culture (same as the former Sociology/Anthropology 2210 and the former Anthropology 2210) is an examination of

verbal and non-verbal systems of communication, and the influence of language on human cognition.

CR: the former Sociology/Anthropology 2210, the former Anthropology 2210

2230 Newfoundland Society and Culture (same as the former Sociology/Anthropology 2230, the former Anthropology 2230, and Folklore 2230) focuses on the social and cultural aspects of contemporary island Newfoundland.

CR: Folklore 2230, the former Sociology/Anthropology 2230, the former Anthropology 2230

2240 Canadian Society and Culture (same as the former Sociology/Anthropology 2240 and the former Anthropology 2240) is a descriptive and analytic approach to the development of Canadian society and culture.

CR: the former Sociology/Anthropology 2240, the former Anthropology 2240

2250 Changing World is a sociological analysis of contemporary world issues and social problems.

2270 Families (same as the former Sociology/Anthropology 2270 and the former Anthropology 2270) is a comparative and historical perspective on the family as a social institution, the range of variation in its structure and the determinants of its development.

CR: the former Sociology/Anthropology 2270, the former Anthropology 2270

3030 Political Sociology is an introduction to the sociological foundations of political life. Topics to be examined include voting behaviour, comparative power systems, ideologies, mass movements, parties, voluntary associations, and bureaucracies. Attention is given to the concepts of class, status, command, power, authority, and legitimacy.

CR: the former Political Science 3030
PR: SOCI 1000 or the former 2000

3040 Introduction to the Methods of Sociological Research provides elementary familiarization with the study of sociology. To this end various strategies for posing and answering sociologically grounded questions will be explored. We take you 'behind the scenes' of the research process to provide basic research skills and strengthen your capacity to critically read and evaluate the research-based writing of others.

PR: SOCI 1000 or the former 2000

3041 Theory and Practice of Sociological Research develops and elaborates upon work introduced in SOCI 3040. Students will more deeply explore the theories of knowledge that underpin social research. They will further hone their abilities to assess different forms of sociological work and to craft research questions. Instruction takes place in a classroom equipped with the computer hardware and software necessary for all students to gain experience performing literature searches and both qualitative and quantitative research. This course includes lectures, discussion, and hands-on experience with sociological research.

CO: SOCI 3040

PR: SOCI 1000 or the former 2000, and one Sociology course at the 2000 level

3120 Social Psychology examines sociological perspectives on social psychology: the physiological and psychological basis of sign and symbol use, the context and emergence of self, identity, role, encounters, social relationships, altercasting.

PR: SOCI 1000 or the former 2000

3130 Sociology of Gambling provides a critical overview of the major social and cultural aspects of modern gambling in terms of leisure, work and economic development, social inequality, health and illness, deviance and crime, and policy. Special attention is directed at the promotion of modern gambling by the state (lotteries, casinos, video lottery terminals, slot machines, and horse racing).

PR: SOCI 1000 or the former 2000

3140 Social Movements (same as the former Sociology/Anthropology 3140 and the former Anthropology 3140) is an examination of social movements which challenge prevailing social institutions and cultural values. Social movements considered may include religious cults and sects, millenarian movements, attempts at utopian and communal living, feminism, labour and revolutionary movements.

CR: the former Sociology/Anthropology 3140, the former Anthropology 3140

PR: SOCI 1000 or the former 2000

3150 Classical Social Theory is an introduction to the work of major 19th and early 20th-century social theorists including Marx, Durkheim, Weber and Freud.

PR: SOCI 1000 or the former 2000

3160 Contemporary Social Theory is an exploration of selected topics from issues in contemporary social theory, including theories of feminism, the state, the environment, culture, organization, and communication.

PR: SOCI 1000 or the former 2000, and SOCI 3150

3180 Minority Groups examines the nature of minority group status in society and various examples of minority groups in past and present societies, reviews theoretical perspectives on minority groups, and explores various aspects of the relationship between minority groups and the rest of society.

CR: the former SOCI 3304
PR: SOCI 1000 or the former 2000

3200 Population is an Introduction to demography, the scientific study of human populations, their size and composition, and the processes by which they change over time: nuptially, fertility, mortality, and migration. Includes analyses of past and present Newfoundland populations.

PR: SOCI 1000 or the former 2000

3220 Work and Society (same as the former Sociology/Anthropology 3220 and the former Anthropology 3220) is an historical and comparative perspective on the cultural and social organization of work, its determinants and human implications.

CR: the former Sociology/Anthropology 3220, the former Anthropology 3220
PR: SOCI 1000 or the former 2000

3260 Social and Economic Development (same as Anthropology 3260) is an examination of theories of development including a critical analysis of empirical situations to which they are applied.

CR: Anthropology 3260, the former Sociology/Anthropology 3260
PR: SOCI 1000 or the former 2000

3290 Deviance examines major sociological theories and methodological techniques central to the study of deviance and crime. The distribution, attributes and explanations of a variety of forms of deviance are examined, which may include violence, sexual deviance, delinquency, addiction, mental disorder, theft, organized crime, political deviance and corporate deviance.

PR: SOCI 1000 or the former 2000

3300-3313 Sociological Specialties will have a topic of current interest and importance, announced by the Department for each term, such as racial and ethnic relations, sociology of religion, art, politics, language, conflict, stratification, knowledge, selected social problems.

3317 Oil and Society (same as the former Sociology/Anthropology 3317 and the former Anthropology 3317) is an examination of the sociology of the Western oil industry and of the social and cultural implications of oil activities for those regions in which they occur. Particular attention will be paid to North Atlantic societies: Scotland, Norway, and Atlantic Canada.

CR: the former Sociology/Anthropology 3317, the former Anthropology 3317
PR: SOCI 1000 or the former 2000

3318 Culture and Aging (same as the former Sociology/Anthropology 3318 and the former Anthropology 3318) is an Introduction to the study of aging from a social and cultural perspective. Distinctions between the biological and social elements of the aging process will be examined. The overview of social and cultural gerontology includes social, economic and political influences on later life, as well as the culture-based needs and aspirations of the aged.

CR: the former Sociology/Anthropology 3318, the former Anthropology 3318
PR: SOCI 1000 or the former 2000

3320 Terrorism and Society (same as the former Sociology/Anthropology 3320 and the former Anthropology 3320) is an examination of the recourse to violence as a recurring phenomenon in social and political movements. Consideration will be given to problems of classifying and explaining various forms of "terrorism", and to discussing their consequences for society.

CR: the former Sociology/Anthropology 3320, the former Anthropology 3320
PR: SOCI 1000 or the former 2000

3395 Criminal Justice provides an introduction to the sociological perspectives on our system of formal social control (police, courts, corrections). Special attention is directed at how social structure and social inequality (class, ethnicity and race, gender) influence criminal justice decisions. Topics discussed include public opinion on crime and criminal justice, offenders and victims in the system, consensus and conflict in the creation of criminal law, finding a delicate balance between police powers for crime control and democratic rights, types of sentencing options and rationales, and the dual and conflicting goals of prisons and alternatives to incarceration.

PR: SOCI 1000 or the former 2000, and SOCI 3290

3400 Sociology of Youth explores the social construction of youth and reviews major theoretical approaches to the study of youth within Western Society. The course examines youth in relation to culture and identity, place and space, social inequalities, and social institutions.

PR: SOCI 1000 or the former 2000

3410 Sociology of Sport (same as Human Kinetics and Recreation 3410) is an examination of the relationship between sport and society. Areas could include social origin of sport, social history of sport, religion and sport

and socialization, sport and social stratification, gender and sport, violence in sport, sport and nationalism.

CR: Human Kinetics and Recreation 3410
PR: SOCI 1000 or the former 2000

3420 Sociology of Gender provides a comprehensive introduction to the major themes, theories and research questions addressed by sociologists studying 'gender'. The economic, social, cultural and political aspects of gender formations, in comparative Canadian and transnational contexts, will be examined.

PR: SOCI 1000 or the former 2000

3630 New Media Methods in Social Research (same as Anthropology 3630) will explore non-print means for recording social behavior and will utilize various forms of the media as a descriptive and an analytic tool.

CR: Anthropology 3630, the former Sociology/Anthropology 3630
PR: SOCI 1000 or the former 2000

3710 Post-Soviet Transformations will explore problems of development in post-Soviet countries, examining them in a broader context of modernization. 'Catch-up' modernization gives rise to a set of problems related to institutional importation, e.g., a gap between formal and informal institutions. These problems exist in Russia as well as in a number of other less-developed countries.

PR: SOCI 1000 or the former 2000

3731 Sociology of Culture is a comparative examination of major contemporary sociological texts on the relationship between culture, broadly understood as symbolic systems, and social structure

PR: SOCI 1000 or the former 2000

4040 Advanced Methods of Social Research is conceptualization and empirical research. Selection of appropriate indicators. Multidimensional classification. Multivariate analysis. Special aspects of multivariate analysis. Panel analysis. Group analysis. The structure of arguments. Clarification of concepts.

PR: SOCI 3040 and 3041

4071 Social and Cultural Aspects of Health and Illness (same as Anthropology 4071) will cover topics which may include: cultural concepts of illness and health; theories of disease causation; relationships between social life and illness patterns; symbiotic use of illness; variations in philosophies of treatment and in practitioner/patient relationships; the social organization of medicine.

CR: Anthropology 4071, the former Sociology/Anthropology 4071
PR: SOCI 3040 and 3150

4074 Ritual and Ceremony (same as the former Sociology/Anthropology 4074 and the former Anthropology 4074) is about ritual and ceremony, as both analytic and descriptive concepts, in both industrial states and subsistence-oriented societies. Topics examined could include: the universality of ritual and ceremony; essential differences between ritual and ceremony; their relative importance in non-industrialised and industrialised societies; the place of symbolism in ritual and ceremony; and the relationship between ritual, ceremony, religion and the sacred.

CR: the former Sociology/Anthropology 4074, the former Anthropology 4074
PR: SOCI 3040 and 3150

4077 Advanced Studies in Terror and Society - inactive course.

4091 Oil and Development (same as the former Sociology/Anthropology 4091 and the former Anthropology 4091) is an advanced seminar which will consider some selected topics dealing with the petroleum industry and its implications for economic development and social change. A comparative approach will be taken, using material from developed, underdeveloped and intermediate regions of the world.

CR: the former Sociology/Anthropology 4091, the former Anthropology 4091
PR: SOCI 3040 and 3150

4092 Gender and Social Theory (same as the former Sociology/Anthropology 4092 and the former Anthropology 4092) is a seminar which will develop the material covered in SOCI 3420 at a more theoretical level. It will cover the history of social thought as it applies to issues of gender, and will discuss some theoretical debates in the area of gender and social theory.

CR: the former Sociology/Anthropology 4092, the former Anthropology 4092
PR: SOCI 3040, 3150, 3420 or permission of the instructor

4093-4099 (Excluding 4096) Special Areas in Sociology will have the content announced when offered.

PR: SOCI 3040 and 3150

4100 Internship is a part-time, one-semester internship course, and is normally an unpaid supervised field placement for academically strong sociology majors. The goal is to help give students basic skills required for employment in nonprofit organizations in the social services and arts management.

UL: six hours per week of worksite activities over a period of eight weeks as well as classroom instruction during part of the term

4100-4109 (Excluding 4100, 4104 and 4107) Special Topics in Institutional Analysis is advanced analysis from a sociological perspective of issues pertaining to specific social institutions.

PR: SOCI 3040 and 3150

4104 Environmental Sociology examines the social forces that drive environmental degradation and responses to environmental issues. The course explores how environmental issues, such as climate change, fisheries collapse, or deforestation, are intertwined with systems of social power and inequality. Through this course, students will learn how a sociological perspective helps address the causes and potential solutions for environmental problems and conflicts.

CO: SOCI 3040, SOCI 3150 and 3 additional credit hours in Sociology courses at the 3000 level, or permission of the course instructor

PR: SOCI 3040, SOCI 3150 and 3 additional credit hours in Sociology courses at the 3000 level, or permission of the course instructor

4107 Women and Technological Change (same as the former Women's Studies 4107) is an advanced seminar which provides an interdisciplinary survey of the effects of technology on women's lives. Topics could include: The historical development of domestic technology; changes in workplace technology and their impact on women; assessing technologies from a feminist perspective; the design of technological systems; biomedical and reproductive technologies; information technologies; biotechnology; development in architecture and design; women, development, and technology; women and weapons technology; women and ecology; future technological change and women's lives. The course will combine seminar discussions of reading with films, workplace tours and guest speakers.

CR: the former Women's Studies 3009, the former Women's Studies 4107
PR: SOCI 3040 and 3150

4200-4220 (Excluding 4201, 4204, 4212 and 4213) Special Topics in Sociology will have topics to be studied announced by the Department.

PR: SOCI 3040 and 3150

4201 The Sociology of Gender, Health and Risk is a seminar course that critically examines how gender structures risk factors and health outcomes and shapes how we experience and understand bodies and minds in relation to health and risk. Topics may include transgender and transsexual health, masculinities and femininities, the body, mental health, leisure and sport, the health care system, and occupational health and safety.

CR: Gender Studies 3100

PR: SOCI 3040 and 3150

4212 Sociology of Policing is a seminar course that focuses on the role policing plays in society, the social, economic, and political factors that shape policing services, and the policies that may be implemented to strengthen policing in the future. The popular view of the police role, detective myths and effectiveness, community policing, police socialization, policing special types of problems, police misconduct, and the expansion of private policing are considered.

PR: SOCI 3040 and 3150

4213 Sociology of Sexuality explores the socially constructed nature of sexuality, and examines how concepts of sexuality are used in the current North American context as well as across different times and cultures. The course explores sex and sexuality in connection to community and identity, social problems, social control, and political resistance.

PR: SOCI 3040 and 3150

4230 Gender and Development is a seminar course focusing on theoretical and empirical explanations of how development processes affect gender inequality and relations between men and women. The course provides students an understanding of how the theories, actors, and ongoing challenges of development interact with and work to shape socially constructed gender relations in a global perspective. Special attention is paid to how globalization influences gender in the development context.

CR: the former SOCI 4204

PR: SOCI 3040 and 3150

4240 Development Issues and Policies in Newfoundland and Labrador is a senior-level seminar course that focuses on the interaction between sociological research and theory on the one hand and government policymaking and implementation on the other with respect to social and economic development in Newfoundland and Labrador.

PR: SOCI 3040 and 3150

4995 Honours Essay is a part of the honours program.

10.29 Spanish

For Spanish course descriptions see under French.

10.30 University

University courses are designated by UNIV.

1010 The University Experience introduces students to the different modes of enquiry that one finds in the University, the interrelatedness of knowledge and the role of the University in society. It also provides students with tools and techniques of study and research that can lead them to academic success and fulfilling career.

1020 Applied Cognitive and Affective Learning Strategies for Undergraduate Students introduces students to cognitive and affective learning strategies and techniques with an emphasis on the application of these techniques in the students' own learning repertoires together with an overview of relevant research from cognitive psychology and related fields. Topics covered will include information processing, memory, forgetting, problem solving, metacognition, general and specific learning strategies, learning styles, and affective strategies.

CR: UCC 2020

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

FACULTY OF BUSINESS ADMINISTRATION

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FACULTY OF BUSINESS ADMINISTRATION

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Dean

Zerbe, W.J., B.A., M.A., Ph.D. *British Columbia*; Professor

Associate Dean (Academic Programs)

Bauer, L.L., B.Sc., Ph.D. *Alberta*; Associate Professor

Associate Dean (Research) & Ph.D. Program Director

Parsons, B.J., B.Comm.(Co-op)(Hons.) *Memorial*, Ph.D. *British Columbia*; Cross appointment with Department of Computer Science; University Research Professor, Awarded 2011; Professor

Director, Gardiner Centre

Hurley, B.J., B.Comm.(Hons.) *Memorial*, M.B.A. *Dalhousie*, C.M.C.

Director, Graduate Programs (Business)

Coady, P.A., B.Comm.(Co-op) (Hons.), M.B.A. *Memorial*; F.C.A. (Newfoundland); Winner of the President's Award for Distinguished Teaching, 2004; CA Program Advisor; Assistant Professor

Director, International Programs (Business)

Burns, M.E., B.A.(Hons.), M.A. *Essex*

Director, Master of Employment Relations

Brown, T.C., B.A. *Memorial*, M.I.R., Ph.D. *Toronto*; Professor

Manager, Academic Programs (Undergraduate)

Elliott, R., B.B.A. *Mount Saint Vincent*

Manager, Quality and Accreditation

McGrath, G., B.A. *Ottawa*, M.B.A., M. Ed. *Memorial*

Senior Administrative Officer

Gardiner, S.E., B.Comm.(Hons) *Queen's*, M.B.A. *Memorial*, C.M.A.

Professores Emeriti

Barnes, J.G., B.A., B.Comm. *Memorial*, M.B.A. *Harvard*, Ph.D. *Toronto*

Sexty, R.W., B.Com. *Alberta*, M.B.A. *Queen's*, Ph.D. *Colorado*

Professors

Faseruk, A.J., B.A. *Queen's*, B.Comm., M.B.A. *Dalhousie*, D.B.A. *Kentucky*, M.T.S. *Queen's College*; Winner of the President's Award for Distinguished Teaching, 1989

Kubiak, W., M.Sc. *Tech. Univ., Gdansk*, Ph.D. *Polish Academy of Sciences, Warsaw*; Winner of the President's Award for Outstanding Research, 1995-1996; University Research Professor, Awarded 2006

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Cummins, G.M., B.Com. *Acadia*, M.B.A. *Alberta*, LL.B., J.D. *British Columbia*; Barrister and Solicitor: Ontario, Newfoundland and British Columbia; Notary Public, Newfoundland

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Stapleton, D., B.Sc., M.B.A. *Memorial*

Tang, J., B.A. *Renmin (China)*, M.A. *Peking (China)*, Ph.D. *Western Ontario*

Warren, A.M., B.Comm.(Co-op), M.E.R. *Memorial*, Ph.D. *St. Mary's*

Adjunct Professor

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McManamon, D.K., B.A., B.Ed. *Memorial*, LL.B. *New Brunswick*, M.B.A. *Dalhousie*

Myrden, S., B.Comm.(Co-op) *Memorial*, M.B.A. *North Carolina at Greensboro*

Cross Appointments

Greenwood, R.M., B.A.(Hons.) *Memorial*, M.A. *York*, Ph.D. *Warwick*; Cross appointment from Leslie Harris Centre of Regional Policy and Development

Hsiao, A.C., B.S. *MIT*, M.B.A. *Memorial*, M.S., Ph.D. *Carnegie Mellon*; Associate Professor; Cross appointment from the Faculty of Engineering and Applied Science

May, J.D., B.Comm. *Queen's*, D.Phil. *York (England)*; Professor; Cross appointment from Department of Economics

Division of Co-operative Education (Business)

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Co-ordinators

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Skane, H., B.Comm.(Co-op) *Memorial*, M.B.A. *York*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Faculty Description

The Faculty of Business Administration is known for innovative, high-quality academic programs, basic and applied research, and

responsive community outreach activities, including those provided by the **Gardiner Centre**. The faculty prepares students to succeed in a competitive work place. Each business program is designed to give students the skills and experience needed to advance their careers. The faculty's close-knit community provides students with many opportunities to get involved and network with fellow classmates.

Additional information regarding the Faculty of Business Administration is available at www.business.mun.ca. Information about the Gardiner Centre is available at www.busi.mun.ca/gardinercentre/.

Students must meet all regulations of the Faculty in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

2.1 Faculty History

In 1954, the University approved a bachelor of commerce undergraduate degree. Over the next two decades, the Department grew substantially in the size of its student enrolment and program offerings. In 1973, it was renamed the School of Business Administration and Commerce, and the University established the first co-operative undergraduate business program in Canada. In 1981 the School was granted faculty status, reflecting the growth and diversity of its academic programs.

In 2002, the Faculty of Business Administration became the first in Atlantic Canada to be accredited by AACSB International—the Association to Advance Collegiate Schools of Business. AACSB International is one of higher education's most prestigious and rigorous accrediting bodies, stressing academic excellence and dedication to continuous improvement. This accreditation is the highest distinction offered to business schools both nationally and internationally.

2.2 Vision Statement

Our Vision is to enhance our reputation as a leading business school with an international presence and national and provincial relevance.

2.3 Mission Statement

Our Mission is to prepare our students for global success, to engage in scholarship with global reach and local relevance, and to serve as a catalyst for the success of organizations and individuals. In this way we fulfill our special obligation to the people of Newfoundland and Labrador.

1. We provide comprehensive business education that combines theory and practice, inspiring students to become successful and valued members of their professions and communities.
2. We conduct and disseminate high quality basic and applied research that informs understanding of the core disciplines of business and management and enhances organizational practice.
3. We engage with our community to share expertise, advance and apply business knowledge, and develop and deliver best practices.

3 Description of Programs

Students must meet all regulations of the Faculty of Business Administration in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

All courses of the Faculty are designated by BUSI.

3.1 Undergraduate Programs

The following undergraduate programs are available:

1. **Minor in Business Administration:** is comprised of eight business courses (24 credit hours) and is available to students who are completing non-Business degree programs which provide for the completion of a minor.
2. **Minor in International Business:** is comprised of eight business courses (24 credit hours) and is available to students who are completing non-Business degree programs which provide for the completion of a minor.
3. **Diploma in Business Administration:** is a 20-course (60 credit hour) program designed to meet the needs of individuals who hold full- or part-time employment and wish to complement their work experience with theoretical business training. The majority of the required courses are offered through distance education.
4. **Bachelor of Commerce (Co-operative):** is a full-time, 45-course (135 credit hour) program with a structured format. This five-year degree includes three four-month work terms. Students have the opportunity to concentrate in accounting, finance, human resource and labour relations, information systems, international business, marketing, operational research, small business/entrepreneurship, or supply chain management.
5. **Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts:** is comprised of 50-courses (150 credit hours). Students in the Bachelor of Commerce (Co-operative) program may simultaneously complete the requirements for a Bachelor of Arts program. Some degree requirements are modified for students pursuing joint degrees.
6. **Bachelor of Commerce (Co-operative) (Honours):** signifies superior academic achievement.
7. **Bachelor of Business Administration (B.B.A.):** is a 40-course (120 credit hour) general business program with a flexible course structure. This four-year degree may be completed in-class, via distance education, or a combination of both. It can be completed full- or part-time.
8. **Bachelor of Business Administration (Honours):** signifies superior academic achievement.
9. **International Bachelor of Business Administration (i.B.B.A.):** is comprised of 40 courses (120 credit hours) and is designed to produce business professionals with a global perspective. This four year degree differs from traditional business programs in its requirements that graduates must complement the usual set of business skills with an understanding of the international environment as well as with cross-cultural skills and experience relevant to a particular global region (e.g., Asia, Europe or Latin America).
10. **International Bachelor of Business Administration (i.B.B.A.) (Honours):** signifies superior academic achievement.

3.1.1 Business Co-operative Education

General management of the work terms in the Co-operative Program is the responsibility of Business Co-operative Education. Through

its co-ordinators, it is responsible for assisting potential employers to become involved in the program, for the continual development of employment opportunities, for arranging student-employer interviews, for counselling of students, for visiting students on their work assignments and for the evaluation of the work term.

Students and employers choose each other through the job competition process. Job advertisements are posted and students may apply for up to twelve positions. Employers interview students, and both the students and employers express their preferences for one another.

Students are then placed by Business Co-operative Education to reflect expressed preferences. Placement is not guaranteed but every effort is made to ensure that appropriate employment is made available. In the case of students who are required to withdraw from the program, Business Co-operative Education has no responsibility for placement until they have been readmitted to the program.

Salaries paid to co-operative students are determined by employers based upon their internal wage structures, and tend to increase as the student progresses through the program and assumes more responsibility. However, students should not expect the income from work terms to make them completely self-supporting.

Students in the Co-operative Program give permission to prospective employers, in the course of the placement process, to have access to their records, which contain their academic marks and their work term evaluations. After accepting a position, students may not withdraw from a specific job situation unless prior permission is obtained from the Committee on Undergraduate Studies.

3.2 Graduate Programs

Programs leading to the **Master of Business Administration (M.B.A.)**, the **Master of Employment Relations (MER)**, and the **Ph.D.(Management)** degrees are described in the **School of Graduate Studies** section of the University Calendar.

4 Program Regulations

1. The Office of the Registrar and the Faculty of Business Administration will assist students with any questions or problems which might arise concerning the interpretation of academic regulations. It is, however, the responsibility of students to see that their academic programs meet the University's regulations in all respects.
2. No student shall obtain more than one undergraduate degree from the Faculty of Business Administration.
3. The Faculty of Business Administration may recommend that transfer credit for certain Business courses be awarded on the basis of successful completion of professional courses that lead to a professional designation (e.g. C.A., C.G.A., C.M.A.). Applications for transfer credit should be made through the Office of the Registrar.
4. The Faculty of Business Administration may approve that credit for certain Business courses successfully completed through Memorial University of Newfoundland's former Extension Services Division be granted upon application to the Registrar for transfer credit evaluation.

4.1 Regulations for Business Minors

1. Students who are completing a non-Business degree program which provides for the completion of a minor may complete a minor in either Business Administration or International Business.
2. Students who wish to undertake either Business minor program must have completed a minimum of 30 credit hours. Application is made in the space provided on the Declaration/Change of Academic Program Form which must then be approved by the Dean of the Faculty of Business Administration or delegate. The form may be obtained in person at the Office of the Registrar or at www.mun.ca/regoff/registration/Declare_Change_Academic_Program.pdf. Admission into the minor program is selective: at the time of application a student must have a cumulative average of at least 65%.
3. A **Minor in Business Administration** shall consist of 24 credit hours comprising the following courses: BUSI 1000, 1101, 1210, 3310, 4000, 4500, and two courses chosen from BUSI 1600, 2101, 2210, 3101, 3700, 4320 and 4330.
4. A **Minor in International Business** is offered as a special program of an interdisciplinary nature, consisting of 24 credit hours as follows:
 - a. BUSI 1101, 1210, 3310, 5302, Political Science 2200; and
 - b. Three further courses from 6040, 6311, 6330, 7005, 6550, 7240, a pre-requisite for one of the preceding courses and/or from cognate courses such as Economics 3030, 4030, Political Science 3210, and 3250, to be chosen through prior consultation with the Coordinator of the International Business program.
5. Course prerequisites for all courses shall apply to both Business minors. Students should note, for example, that the prerequisites for BUSI 4500 are BUSI 1101, Statistics 2500 and Economics 2010, and that the prerequisites for BUSI 5302 are BUSI 1000, Economics 2010 and 2020. It should be noted that some courses are not offered every semester.

4.2 Regulations for General Degree of Bachelor of Commerce (Co-operative)

4.2.1 Admission Modes and Requirements

4.2.1.1 Direct Entry (for High School Students)

Students may apply for admission into first year of the Bachelor of Commerce (Co-operative) program (Terms A/B) directly from high school by indicating this in the appropriate place on their Undergraduate Application for Admission/Readmission to Memorial University of Newfoundland. Direct entry from high school is subject to the applicant's final acceptance to the University and admissibility into either Mathematics 1000 or 1090. Terms A/B normally starts in September.

4.2.1.2 Advanced Standing (for Current Memorial University of Newfoundland Students)

1. Students may apply for admission with Advanced Standing into terms beyond Terms A/B up to and including Term 4. Students applying for admission to a term beyond Terms A/B must have completed all of the courses required in the program up to that term, including the courses required in Terms A/B, with grades high enough to have met promotion requirements. Students applying for admission with advanced standing must complete and submit to the Office of the Registrar the Faculty of Business Administration Application For Admission, normally on or before the deadlines specified in the **University Diary** for the semester in which they intend to begin their program.
2. Admission with Advanced Standing is competitive and selective. Prospective students are therefore encouraged to consider an alternate degree program in the event that they are not accepted into the Bachelor of Commerce (Co-operative) program.
3. The primary criterion used in reaching decisions on applications for admission with advanced standing is overall academic

achievement. Selection, therefore, will be based on a student's overall academic performance. Students with weak overall academic records are unlikely to be admitted.

4.2.1.3 Transfers From Other Post-Secondary Institutions

1. Students who are transferring from other universities must apply for admission to the University on or before the deadlines specified in the **University Diary** for the semester in which they intend to begin their program, to allow sufficient time for the evaluation of transfer credits. Subject to items 2. and 3. under **Advanced Standing (for Current Memorial University of Newfoundland Students)** above, transfer students from other universities will be placed in that Term of the program judged by the Admissions Committee of the Faculty to be appropriate considering equivalent credits. Regardless of the Term into which they are admitted, transfer students must complete a minimum of two work terms.
2. Subject to items 2. and 3. under **Advanced Standing (for Current Memorial University of Newfoundland Students)** above, graduates of a three-year community college business diploma program may be considered for admission into Term 3. Space for Term 3 admissions is limited and competitive and admission decisions will be based on overall academic performance. Specific course requirements will be determined on an individual basis at the time of admission

4.2.2 The Curriculum

1. To graduate with the Bachelor of Commerce (Co-operative) degree, every candidate shall successfully complete 135 credit hours over nine academic terms in the Co-operative Program and shall normally be required to successfully complete three work terms. The 135 academic credit hours are distributed as follows: 30 credit hours over the course of Terms A/B and 15 credit hours in each of Terms 1 through 7.
2. Students who have been admitted to the Bachelor of Commerce (Co-operative) program must complete courses in academic terms or "blocks" in the sequence, order and course load as set out in the **Table 1 Bachelor of Commerce (Co-operative) Curriculum**. Exceptions to this prescribed program, including specified course load, must have the approval of the Admissions Committee or of the Committee on Undergraduate Studies of the Faculty.
3. By the end of the Winter semester of their first year, Terms A/B students must have successfully completed the following 30 credit hours:
 - a. Six credit hours in English courses which must include English 1110 or 1021;
 - b. Mathematics 1000;
 - c. Economics 2010 and 2020;
 - d. BUSI 1000;
 - e. Twelve additional credit hours in non-Business electives. Students who wish to complete the **Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts** [see entry immediately following The Curriculum below] are strongly advised to include courses in a second language and courses in the subject of the intended Major program.
4. The curriculum of courses and work terms beyond the 30 credit hours required in Terms A/B is as follows:
 - a. Statistics 2500
 - b. Fifty-four credit hours in core Business Administration courses: 1101, 1210, 1600, 2010, 2101, 2210, 2400, 2710, 3310, 3401, 3700, 4000, 4050, 4320, 4330, 4500, 5301, and 7000.
 - c. At least 21 credit hours but no more than 36 credit hours in Business electives which must be chosen from **Table 4 Business Electives**.
 - d. At least 12 credit hours but no more than 27 credit hours in non-Business electives.
 - e. Three work terms of four months duration each.

Unspecified credits may not be used to fulfil the requirements outlined in a., b., and e. above.
5. Notwithstanding clauses 2. and 4. and bullet three of **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate), Classification of Students**, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.

Table 1 Bachelor of Commerce (Co-operative) Curriculum

Fall and Winter Terms A/B	6 credit hours in English courses which must include English 1110 or 1021 Mathematics 1000 Economics 2010 and 2020 BUSI 1000 12 additional credit hours in non-BUSI electives
Fall Academic Term 1	BUSI 1101 BUSI 1210 Statistics 2500 6 credit hours chosen from: BUSI 1600, BUSI 2010, BUSI 2400, BUSI 2710, and 3 credit hours of electives*
Winter Academic Term 2	BUSI 2101 BUSI 2210 Remaining 9 credit hours chosen from: BUSI 1600, BUSI 2010, BUSI 2400, BUSI 2710, and 3 credit hours of electives*
Spring	
Fall Academic Term 3	BUSI 3310 BUSI 3401 BUSI 3700 6 credit hours in elective courses*
Winter Work Term 1	BUSI 399W
Spring Academic Term 4	BUSI 4000 BUSI 4050 BUSI 4320 BUSI 4330 BUSI 4500
Fall Work Term 2	BUSI 499W
Winter Academic Term 5	BUSI 5301 12 credit hours in elective courses*
Spring Work Term 3	BUSI 599W
Fall Academic Term 6	BUSI 7000 12 credit hours in elective courses*
Winter Academic Term 7	15 credit hours in elective courses*

* Of the 48 credit hours in elective courses required in the program from Terms 1 through 7, 21 – 36 credit hours must be chosen from Business electives in **Table 4 Business Electives** and 12 – 27 credit hours must be non-Business electives.

4.2.3 Regulations for the Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts

Any student who is admitted into the Bachelor of Commerce (Co-operative) program may simultaneously complete the requirements for a Bachelor of Arts program. Under those circumstances, regulations for the Bachelor of Commerce (Co-operative) program will be relaxed as follows. Notwithstanding clauses 4.c. and 4.d. of **The Curriculum** under the **Regulations for the General Degree of Bachelor of Commerce (Co-operative)**, students in the Bachelor of Commerce (Co-operative) program who are concurrently completing the Bachelor of Arts degree will be permitted to make the following adjustments to those clauses:

1. clause 4.c. - no fewer than 15 credit hours, but no more than 36 credit hours, in Business electives which must be chosen from **Table 4 Business Electives**.
2. clause 4.d. - no fewer than 12 credit hours, but no more than 33 credit hours, in elective courses chosen from the Faculty of Arts.

These adjustments to the normal curriculum will only be permitted for students who are graduating with the Bachelor of Commerce (Co-operative) degree and the Bachelor of Arts degree at the same convocation. In order to meet all of the requirements of both degree Programs at the same time, students who are completing the joint degrees are strongly advised to follow **Table 2 Bachelor of Commerce (Co-operative) Curriculum (Completed Jointly with the Bachelor of Arts)**.

Table 2 Bachelor of Commerce (Co-operative) Curriculum (Completed Jointly with the Bachelor of Arts)

Fall and Winter Terms A/B	6 credit hours in English courses which must include English 1110 or 1021 Mathematics 1000 Economics 2010 and 2020 BUSI 1000 12 additional credit hours in non-BUSI electives [see Note 1. below]
Fall Academic Term 1	BUSI 1101 BUSI 1210 Statistics 2500 6 credit hours chosen from: BUSI 1600, BUSI 2010, BUSI 2400, BUSI 2710, and 3 credit hours in Major, Core or elective courses [see Note 1. below]
Winter Academic Term 2	BUSI 2101 BUSI 2210 Remaining 9 credit hours chosen from: BUSI 1600, BUSI 2010, BUSI 2400, BUSI 2710, and 3 credit hours in Major, Core or elective courses [see Note 1. below]
Spring	[see Note 2. below]
Fall Academic Term 3	BUSI 3310 BUSI 3401 BUSI 3700 At least 6 credit hours in Major, Core or elective courses [see Note 3 below]
Winter Work Term 1	BUSI 399W [see Note 2. below]
Spring Academic Term 4	BUSI 4000 BUSI 4050 BUSI 4320 BUSI 4330 BUSI 4500
Fall Work Term 2	BUSI 499W [see Note 2. below]
Winter Academic Term 5	BUSI 5301 At least 12 credit hours in Major, Core or elective courses [see Note 3. below]
Spring Work Term 3	BUSI 599W [see Note 2. below]
Fall Academic Term 6	BUSI 7000 At least 12 credit hours in Major, Core or elective courses [see Note 3. below]
Winter Academic Term 7	At least 15 credit hours in Major, Core or elective courses [see Note 3. below]

- Notes: 1. The Bachelor of Arts requires completion of a Major program, a Minor program, a set of Core Requirements, and elective courses, totalling at least 78 credit hours in courses offered by departments within the Faculty of Arts (or Computer Science, Mathematics and Statistics, and Psychology). When the Bachelor of Arts is completed jointly with the Bachelor of Commerce (Co-operative):
- Minor program requirements are satisfied by BUSI courses specified in **Table 1 Bachelor of Commerce (Co-operative) Curriculum** above.
 - Core requirements for English and Numeracy/Science are satisfied by courses completed in Terms A/B or during Terms 1 or 2 of the Bachelor of Commerce (Co-operative) degree.
 - It is recommended that the Core Requirement for 6 credit hours in courses in a second language be completed in Terms A/B of the Bachelor of Commerce (Co-operative) degree program.
 - Core requirements for 6 credit hours in research/writing courses may be satisfied by including two such courses within the 78 credit hours in courses offered by departments within the Faculty of Arts. Please consult the **Undergraduate Registration Procedures** to determine research/writing course offerings in any given semester.
 - Major requirements for the Bachelor of Arts may be satisfied in 36 to 45 credit hours, depending on the department or program chosen. Students are strongly recommended to seek advice from the department or program of their Major to ensure that their proposed degree program is possible within the constraints of course scheduling and prerequisites.
2. Students are advised that, in order to complete the joint degrees within the minimum 150 credit hours, they must complete at least five of the courses required for the Bachelor of Arts as opportunities arise and as courses are offered. These courses may be completed during the Spring semesters between Terms A/B and Term 1, between Terms 2 and 3, or during any of the three Work Terms (for example, in the evening or by distance), or as sixth courses during any of the academic terms (following submission of a course load waiver).
3. To meet the requirements for the Bachelor of Commerce (Co-operative), not fewer than 15 and not more than 36 credit hours in BUSI electives must be chosen from **Table 4 Business Electives**. Students intending to complete the joint degrees in the minimum number of 150 credit hours should ensure that at least 78 of these credit hours are completed in courses offered by departments within the Faculty of Arts (or Psychology, Mathematics and Statistics, and Computer Science). Careful planning, particularly in the selection of elective courses as well as in the sequence of Major program courses, is therefore recommended to ensure timely completion of the joint degrees.

4.2.4 Minor or Cognate From Another Academic Unit

- A student enrolled in the Bachelor of Commerce (Co-operative) program may, using all of the non-Business electives required in the curriculum, complete a minor within the Faculty of Arts, the Faculty of Science, the School of Music, or offered at Grenfell Campus. Regulations for the minor are given under the Calendar entries for the Faculty of Arts, the Faculty of Science, and the School of Music, and under the Calendar entry for Grenfell Campus.
- A student enrolled in the Bachelor of Commerce (Co-operative) program may pursue a minor (or equivalent) in other non-business academic units (where minor programs exist) with permission of that academic unit and permission of the Committee on Undergraduate Studies of the Faculty of Business Administration.

4.2.5 Examination and Promotion for the Bachelor of Commerce (Co-operative)

- The Faculty Council of the Faculty of Business Administration constitutes the examining body for all examinations in Business

courses. In addition, the standing of every student will be assessed by the Committee on Undergraduate Studies in accordance with the promotion requirements outlined in Clauses 2., 3., and 9. below.

- Students in Terms A/B will be considered for promotion to Term 1 at the end of the Winter semester of their first year. At that time, for promotion from Terms A/B, students must have successfully completed the 30 credit hours prescribed in 3. of **The Curriculum** above, with an overall average on those 30 credit hours of at least 65%. Students who do not satisfy these requirements will be required to withdraw from the program and will not be promoted to Term 1.

Students who have been required to withdraw following Terms A/B may be considered for readmission to the program in accordance with the entry under **Admission Modes and Requirements** above, with the heading **Advanced Standing (for Current Memorial University of Newfoundland Students)**.

A required withdrawal for failure to meet the promotion requirements from Terms A/B will not be reflected on a student's transcript.

- For promotion from each of Terms 1 through 7, the requirements are the achievement of a passing grade in at least 12 credit hours and an overall average of at least 60% in those courses required in each academic term.

Students in an academic term who do not maintain the appropriate course load as outlined in Clause 2. of **The Curriculum**, and who do not have the prior approval of the Committee on Undergraduate Studies for a reduced course load, will be required to withdraw from the program and will not be promoted.

Students completing Terms 1 through 7 who fail to achieve these standards will be required to withdraw from the program. A required withdrawal from any of Terms 1 through 7 will be reflected on a student's transcript.

Students who meet the academic promotion requirements above but who fail a core course in any of Terms 1 through 7 will be required to successfully repeat that course prior to graduation. Students who meet the promotion requirements above but who fail an elective in any of Terms 1 through 7 will be required to either successfully repeat that elective or successfully complete an additional elective to replace it prior to graduation.

- The Committee on Undergraduate Studies of the Faculty of Business Administration may promote a student notwithstanding promotion requirements listed in Clause 3. above. A decision of this nature will be made only for reasons acceptable to the Committee on Undergraduate Studies, and in the case of a student thought likely to succeed in future terms.
- Students who have been required to withdraw following any one of Terms 1 through 7 may be considered for readmission after the lapse of two semesters, at which time they will normally be required to repeat the term which they failed, unless, in the opinion of the Admissions Committee, Faculty of Business Administration, a more meaningful course of study would be appropriate.

In order to be considered for readmission, students must formally apply for readmission to the program not later than the deadlines specified in the **University Diary** for the semester in which they wish to recommence their program.

- The dates for starting and finishing each work term are shown in the **University Diary**. Successful completion of the work term requirements is a prerequisite to graduation.
- A competition for work term employment is organized by Business Co-operative Education. Students may obtain their own work term jobs outside the competition. Such jobs must be confirmed by letter from the employer and approved by Business Co-operative Education on or before the first day of the work period. By entering the competition, students give permission for Business Co-operative Education to supply their university transcripts to potential employers.
- A work report on a topic approved by Business Co-operative Education must be submitted for each work term. This report must be approved by the employer and submitted to Business Co-operative Education on or before the deadline scheduled by Business Co-operative Education. Evidence of the student's ability to gather material relating to the report, analyse it effectively, and present it in a clear, logical and concise form, will be required in the report. Late reports will not be graded unless prior permission for a late report has been given by Business Co-operative Education.
- The overall evaluation of the work term is the responsibility of Business Co-operative Education. The work term shall consist of two components:

Student performance as evaluated by a co-ordinator, given input from the employer, and a work report graded by a co-ordinator or a member of faculty.

Evaluation of the work term will result in the assignment of one of the following final grades:

- Pass with Distinction*: Indicates **EXCELLENT PERFORMANCE** in both the work report and work performance. The student is commended for his/her outstanding performance in each of the required components; pass with distinction has been awarded to each of the work report and work performance.
- Pass*: Indicates that **PERFORMANCE MEETS EXPECTATIONS** in both the work report and work performance. The student fully meets the requirements of a passing work report and completely satisfactory work term performance.
- Fail*: Indicates **FAILING PERFORMANCE** in the work report and/or the work performance.

For promotion from the work term, a student must obtain *PASS WITH DISTINCTION* or *PASS*.

If a student fails to achieve the standards outlined above, the student will be required to withdraw from the program and may be considered for readmission after the lapse of two semesters, at which time the student will be required to complete a further work term with satisfactory performance before being admitted to any further academic term in the Faculty.

- A student who has been required to withdraw from the program as a result of failing to meet the requirements of either two academic terms or two work terms will not be eligible for readmission to the program.
- Students are not permitted to drop work terms without prior approval of the Committee on Undergraduate Studies upon the recommendation of Business Co-operative Education. Students who drop a work term without permission, or who fail to honour an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the job, will normally be awarded a grade of FAL for that work term. Permission to drop a work term does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved work term in lieu of the one dropped.

4.2.6 Regulations for the Honours Degree of Bachelor of Commerce (Co-operative)

An Honours Degree of Bachelor of Commerce (Co-operative) signifies superior academic achievement.

- To be considered for an Honours Degree, the candidates must so indicate on the prescribed "Application for Graduation" form. This form may be obtained at the Office of the Registrar or on-line at the Memorial Self Service at www3.mun.ca/admit/twbkwbis.P_WWWLogin.
- Candidates for the Honours Degree of Bachelor of Commerce (Co-operative) shall comply with all regulations governing the **General Degree of Bachelor of Commerce (Co-operative)**.

3. A candidate shall obtain at least a 75% average and a grade point average of at least 3.5 on the courses which comprise the total number of credit hours required for the degree. Candidates are not permitted to repeat or substitute courses for the purpose of meeting these criteria.
4. To be eligible for the Honours degree, a candidate must pass all of the core courses required in Terms 1 through 7 on his/her first attempt.
5. A student who has been required to withdraw from the program as a result of failing to meet the requirements for promotion from academic Terms 1 through 7 or from Work Terms 1, 2, or 3 will not be eligible for an Honours Degree.
6. An applicant for the Honours Degree who fails to fulfill the conditions of Clauses 3., 4., and 5. but fulfills the requirements for a General Co-operative Degree shall be awarded the General Degree of Bachelor of Commerce (Co-operative).

4.3 Commerce Concentrations

Students completing the Bachelor of Commerce (Co-operative) degree may choose to complete their Business electives in a number of different areas or to concentrate in one of the areas outlined below. In either case, students must complete at least 21 credit hours but no more than 36 credit hours in BUSI electives which must be chosen from **Table 4 Business Electives**. A concentration provides the student with the opportunity of broadening knowledge and understanding of one of the following areas. Particular attention should be paid to necessary prerequisites when scheduling courses. Students enrolled in Study Abroad programs should consult with the appropriate Faculty of Business Administration Area Group Coordinator regarding the applicability of courses taken while studying abroad to their chosen concentration.

4.3.1 Accounting

Students electing an Accounting concentration should complete the following courses:

1. BUSI 3101, BUSI 5160, BUSI 5500, BUSI 6100, BUSI 6110, BUSI 6120, BUSI 6130, BUSI 7120; and
2. either BUSI 7110 or BUSI 7160. Normally students pursuing a C.M.A. designation would complete BUSI 7160.

Students intending to pursue the C.A., C.M.A., or C.G.A. designations in general should consult the appropriate body to determine the courses required.

4.3.2 Finance

Students electing a Finance concentration should complete the following courses:

1. BUSI 5500, BUSI 6120, BUSI 6510, BUSI 6550, BUSI 7500, and BUSI 7510; and
2. any three of the following courses: Mathematics 2090, Economics 3000, Economics 3010, Economics 3030, Economics 3150, Economics 4025, Economics 4026, BUSI 5530, BUSI 6100, BUSI 6110, or BUSI 7150.

4.3.3 Human Resources and Labour Relations

Students electing the Human Resources and Labour Relations concentration should complete the following courses:

1. BUSI 6310, BUSI 6320, BUSI 7310, BUSI 7322; and
2. any four of the following: BUSI 6301, BUSI 6311, BUSI 6312, BUSI 6330, BUSI 7315, BUSI 7320, BUSI 7321, BUSI 7330, or Economics 3360.

4.3.4 Information Systems

Students electing an Information Systems concentration should complete the following courses:

1. Six of BUSI 5700, BUSI 5701, BUSI 5702, BUSI 5703, BUSI 6700, BUSI 6701, BUSI 7700, and BUSI 7701; and
2. a. either Geography 2195, Geography 3260, and one of Geography 3202, Geography 4202, Geography 4261
b. or three of the following: Computer Science 1710, Computer Science 2500, Computer Science 2710, Computer Science 2760, Computer Science 3710, Computer Science 3715, Computer Science 4761, Computer Science 4767.

4.3.5 International Business

Students electing an International Business concentration should complete the following eight courses, of which at least five should be from the Faculty of Business Administration:

1. BUSI 5302, Political Science 2200 and either BUSI 6550 or Economics 3030; and
2. any five of the following: BUSI 6040, BUSI 6311, BUSI 6330, BUSI 6550, BUSI 7005, BUSI 7240 and other courses with global or regional business content selected in consultation with the Coordinator of the i.B.B.A. program. These may include courses taken as part of an approved Study Abroad program (up to a maximum of 9 credit hours).

4.3.6 Marketing

Students electing a Marketing concentration should complete the following courses:

1. BUSI 3210, BUSI 5220, and BUSI 7230; and
2. any three of the following: BUSI 5210, BUSI 5217, BUSI 6217, BUSI 6218, BUSI 6230, BUSI 6241, BUSI 6250, BUSI 7240, or BUSI 7250.

4.3.7 Operational Research

Students electing a Operational Research concentration should complete the following eight courses:

1. BUSI 5401, BUSI 5402, BUSI 6400, and BUSI 7400; and
2. any four of: Computer Science 1710, Computer Science 2710, Mathematics 1001, Mathematics 2050, and any Business Information Systems course (or courses) at the 5000 level or above.

4.3.8 Small Business/Entrepreneurship

Students electing a Small Business/Entrepreneurship concentration should complete the following courses:

1. BUSI 5220, BUSI 5600, BUSI 6605, BUSI 7010, BUSI 7600, and BUSI 7610; and

2. any three of the following: BUSI 6120, the former BUSI 6220, BUSI 6250, BUSI 6312, BUSI 6610, BUSI 7230, or BUSI 7240.

4.3.9 Supply Chain Management

Students electing a Supply Chain Management concentration should complete the following courses: BUSI 5401, BUSI 5402, BUSI 6410, BUSI 6415, BUSI 7410, and BUSI 7415.

4.4 Regulations for the Diploma in Business Administration

1. To be considered for admission to the Diploma Program in Business Administration, applicants must normally have satisfied the following requirements:

- a. Successful completion of 15 academic credit hours as follows:
 - i. Six credit hours in English which must include English 1110 or 1021;
 - ii. Mathematics 1000;
 - iii. BUSI 1000;
 - iv. Three credit hours of non-Business electives.

Only students with an overall average of at least 60% in the courses comprising the 15 credit hours required will be considered for admission to the program.

Overall academic performance is an important criterion in reaching decisions on applications for admission, and will be considered, in addition to the average on the five courses required for admission, in the selection process. Students with weak overall academic records are unlikely to be admitted.

- b. At least five years of full-time work experience, or equivalent, that is deemed acceptable by the Admissions Committee of the Faculty of Business Administration.

In the case where students have been required to withdraw from one of the Faculty's other undergraduate programs, the Admissions Committee of the Faculty may consider this circumstance as grounds to deny admission.

2. To be eligible for the Diploma in Business Administration, a student must:
 - a. have been admitted to the Diploma Program;
 - b. successfully complete the following 45 credit hours in addition to the 15 credit hours required for admission (a total of 60 credit hours):
 - i. Economics 2010 and 2020;
 - ii. Statistics 2500 or equivalent;
 - iii. BUSI 1101, 1210, 1600, 2400, 2710, 3310, 4000, and 4500;
 - iv. Four of the following, one of which must be either BUSI 4320 or 4330: BUSI 2010, 2101, 2210, 3401, 3700, 4050, 4320, and 4330.
 - c. Achieve an overall average of at least 60% in the courses which comprise the 45 credit hours specified in clause 2. b. A student failing to meet this requirement will be required to repeat a course(s) to raise the overall average to the minimum acceptable level.
 - d. Successfully complete a comprehensive case analysis with report (BUSI 450W). BUSI 450W will not be required of students who complete BUSI 4050 from the list in 2.b.iv. above.
 - e. Students planning to pursue their Bachelor of Business Administration (see **Regulations for the General Degree of Bachelor of Business Administration (B.B.A.)**) are encouraged to note the prerequisites for BUSI 7000 and to plan their courses so that they have completed the prerequisites prior to the semester in which they plan to take BUSI 7000.
3. a. Every candidate for the Diploma in Business Administration will be required to complete at least 30 credit hours at this University. The courses comprising these credit hours must be applicable to the Diploma in Business Administration.
 - b. Every candidate for the Diploma in Business Administration, who has completed a Bachelor's degree at this University or another recognized university or university college, will be required to complete at least 30 credit hours at this University beyond those required for that degree. The courses comprising these credit hours must be applicable to the Diploma in Business Administration.

4.4.1 Continuance Regulations

1. The Faculty Council of the Faculty of Business Administration constitutes the examining body for all examinations in Business courses. In addition, the standing of every student will be assessed by the Committee on Undergraduate Studies in accordance with the continuation requirements outlined in 2. below.
2. Students must qualify for continuation after each term of study. To continue, students must have an overall average of at least 60% over their last ten courses taken. In the event that a student has more courses than needed in the earliest term used, the courses with the highest grades in that term will be used.
3. Students who fail to achieve the standards outlined in 2. above normally will be required to withdraw from the program. They may be considered for readmission after a lapse of two semesters. In order to be considered for readmission, students must formally apply for readmission.
4. Students who are required to withdraw a second time are not eligible for readmission into the program.
5. The Committee on Undergraduate Studies of the Faculty of Business Administration may allow a student to continue who fails to achieve the standards outlined in 2. above. A decision of this nature will be made only for reasons acceptable to the Committee on Undergraduate Studies.

4.5 Regulations for the General Degree of Bachelor of Business Administration (B.B.A.)

4.5.1 The Curriculum

1. To be admitted to the B.B.A. program, students should select the B.B.A. program on their Undergraduate Application for Admission/Readmission to the University or on the Declaration/Change of Academic Program Form.

2. To graduate with the B.B.A., candidates must successfully complete the following 120 credit hours with a Grade Point Average on those 120 credit hours of at least 2.5 and a numeric average on those 120 credit hours of at least 60%:
 - a. Six credit hours of English which must include English 1110 or 1021;
 - b. Mathematics 1000;
 - c. Economics 2010 and 2020;
 - d. Statistics 2500;
 - e. Business 1000, 1101, 1210, 1600, 2010, 2101, 2210, 2400, 2710, 3310, 3401, 3700, 4000, 4050, 4320, 4330, 4500, 5301, and 7000. Students are encouraged to note the prerequisites for 7000 (Strategic Management 2) and to plan their courses so that they have completed the prerequisites prior to the semester in which they plan to take 7000.
 - f. 45 credit hours of electives, of which not more than 21 credit hours may be from Business courses (which must be chosen from **Table 4 Business Electives**).
3. Notwithstanding 1. above, graduates of a three year community college business diploma program may be eligible for exemptions for some of the curriculum requirements of the B.B.A. Students who are granted exemptions on the basis of their college business diploma will be required to complete, at this University, a minimum of 45 credit hours beyond those awarded on the basis of their college diploma. Specific course requirements will be determined on an individual basis by the Undergraduate Programs Office, Faculty of Business Administration.

4.5.2 Minor or Cognate From Another Academic Unit

1. A student enrolled in the B.B.A. program may complete a minor within the Faculty of Arts, the Faculty of Science, the School of Music, or from Grenfell Campus. Regulations for the minor are given under the Calendar entries for the Faculty of Arts, the Faculty of Science, the School of Music, and Grenfell Campus.
2. A student enrolled in the B.B.A. program may pursue a minor (or equivalent) in other non-business academic units (where minor programs exist) with permission of that academic unit and permission of the Committee on Undergraduate Studies of the Faculty of Business Administration.

4.6 Regulations for the Honours Degree of Bachelor of Business Administration

An Honours degree of Bachelor of Business Administration signifies superior academic achievement. The difference between a First Class General B.B.A. Degree and an Honours B.B.A. Degree is that for a First Class B.B.A., a candidate must obtain a grade point average of at least 3.5 on the best 120 credit hours which meet curriculum requirements, and for an Honours B.B.A., a candidate must obtain a grade point average of at least 3.5 on the earliest attempt at courses which meet curriculum requirements.

1. To be considered for an Honours degree, a candidate must so indicate on the University's official Application for Graduation form. This form may be obtained at the Office of the Registrar or on-line at the Memorial Self Service at www3.mun.ca/admit/twbkwbis.P_VWWWLogin.
2. A candidate for the Honours Degree of Bachelor of Business Administration shall:
 - a. comply with all regulations governing the General Degree of Bachelor of Business Administration, and
 - b. obtain at least a 75% average and a grade point average of at least 3.5 on the courses prescribed in **The Curriculum**. Candidates are not permitted to repeat or substitute courses for the purpose of meeting these criteria. In the case of a student who has repeated courses and/or who has completed more than 120 credit hours at the time of application for graduation, applicable courses will be taken in chronological order rather than in order of grade in calculating these averages. This may mean that failed courses will be used in calculating this grade point average even when the courses were later repeated and passed or, in the case of electives, replaced with other courses later in a candidate's academic career.
3. A declared candidate for an Honours degree who fails to fulfil the conditions of clause 2. but fulfils the requirements for a General degree shall be awarded the General Degree of Bachelor of Business Administration.

4.7 Regulations for the General Degree of International Bachelor of Business Administration (i.B.B.A.)

4.7.1 General Regulations

1. The International Bachelor of Business Administration (i.B.B.A.) program requires a total of 120 credit hours.
2. The program includes a compulsory one-semester approved program of full-time study at an overseas location. Subject to the **Study Abroad Program** regulations below, students must normally have completed at least 72 credit hours of the program and no more than 96 credit hours of the program prior to commencement of the study abroad program.
3. The overall program must have a coherent global and regional content. In order to achieve this coherency students shall nominate a global region (e.g. Asia, Europe, Latin America) as a focus area within their program. The choice of region will affect both the choice of non-BUSI courses and the choice of location and content of the study abroad program (see **Global and Regional Content** below).

4.7.2 Admission Requirements

1. Normally, admission is offered for the Fall Semester. The deadline for admission or readmission is March 1. Students applying for admission to the i.B.B.A. must submit the Faculty of Business Administration Application For Admission to the Office of the Registrar on or before this deadline. Where circumstances permit, applications will be considered for the Winter and Spring Semesters. The deadlines for admission or readmission are specified in the **University Diary**.
2. Students who are seeking admission for the Fall Semester normally must have completed all the courses required for admission by the end of the Winter Semester.
3. Applications received after the deadline will be considered only if a space is available in the program.
4. To be eligible for Admission to the i.B.B.A. program an applicant must have successfully completed the Pre-i.B.B.A. program (see **The Curriculum**, clause 1, below) with an average on those courses of at least 65%, or the equivalent at another recognized post-secondary institution. Students who are transferring from other universities must apply for admission to the University on or before the deadlines specified in the **University Diary** for the semester in which they intend to begin their program, to allow sufficient time for the evaluation of transfer credits.
5. Admission is competitive and selective. Therefore, prospective students are encouraged to consider an alternate degree program in

the event that they are not accepted into the International Bachelor of Business Administration program.

6. The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Selection, therefore, will be based on a student's overall academic performance in addition to the average on the 30 credit hours required for admission. Students with weak overall academic records are unlikely to be admitted.
7. In the case where an applicant has been required to withdraw from one of the Faculty's other Undergraduate programs, the Admissions Committee of the Faculty may consider this circumstance as grounds to deny admission.

4.7.3 The Curriculum

1. The i.B.B.A. program includes the following 30 credit hours that comprise the Pre-i.B.B.A. program:
 - a. Six credit hours of English which must include English 1110 or 1021;
 - b. Mathematics 1000;
 - c. Economics 2010 and 2020;
 - d. BUSI 1000;
 - e. Political Science 2200;
 - f. Nine additional credit hours in non-BUSI courses. It is strongly recommended that students take into account the **Global and Regional Content** requirement outlined below when choosing these additional 9 credit hours of study.
2. In addition to the Pre-i.B.B.A. program requirements, the curriculum shall consist of the successful completion of:
 - a. Thirty-nine credit hours consisting of: Statistics 2500 and BUSI courses 1101,1210, 2010, 2101, 2400, 3310, 3401, 3700, 4000, 4320, 4500, and either 7000 or 7005.
 - b. Fifteen credit hours of international business related courses, which must include:
 - i. BUSI 5302 and either Economics 3030 or BUSI 6550; and
 - ii. any three from: BUSI 6311, BUSI 7005 (if not completed to fulfill 2.a.i above), BUSI 7240, BUSI 6550 (if not completed to fulfill 2.b.i. above), BUSI 6040, Economics 4030, or Political Science 3250 or any other approved course with an international focus.

Pre-requisites for all courses shall apply to the i.B.B.A. program. Students should note, for example, that the pre-requisites for BUSI 7000 include BUSI 4050 and BUSI 5301, which are not program requirements for the i.B.B.A.

- c. Thirty-Six further credit hours of which at least 12 must be in non-BUSI courses. Students should take into account the **Non-business Elective Courses** regulations under the **Global and Regional Content** requirement below when choosing these 12 credit hours of non-business electives.
- d. It is recommended that students choose their elective courses so that their overall program contains at least one group of four or five courses within a chosen functional area or specialization or minor.
3. At least 12 credit hours of the program described in 2. above must be completed in an approved study abroad program. The program must meet the **Study Abroad Program** regulations under the **Global and Regional Content** requirements below. Courses taken by distance education from Memorial University of Newfoundland may not be used to satisfy the **Study Abroad Program** requirement.
4. For graduation, a student must be enrolled in the i.B.B.A. program, and have completed the 120 credit hours required with a minimum average of 65% on the program courses.

4.7.4 Global and Regional Content

Courses chosen to meet the above requirements must have a coherent global and regional content. In order to achieve this coherency, students shall nominate a global region (e.g. Asia, Europe, Latin America) as a focus area within their program. The choice of region will affect the choice of non-BUSI elective courses as well as the choice of location and content of the study abroad program. Students must consult with the Undergraduate Programs Office of the Faculty of Business Administration when selecting courses to satisfy the global and regional content requirement to ensure that the selected courses will fulfill the requirement.

4.7.4.1 Non-business Elective Courses

1. Non-business elective courses must include the following 9 non-language credit hours:
 - a. at least 3 further credit hours with a global and/or comparative international perspective
 - b. at least 6 credit hours with a chosen regional perspective.
2. Study of a foreign language relevant to the chosen region, commencing in the Pre-i.B.B.A. program, is highly recommended. Students selecting a regional perspective and planning to undertake their study abroad program where English is not the main language must complete 6 credit hours of the relevant language prior to undertaking study abroad.

4.7.4.2 Study Abroad Program

1. Notwithstanding the **General Regulations** above and the **Continuance Regulations** below, a student may be held back from participating in the study abroad program if the student has not completed at least 10 courses since his/her admission to the i.B.B.A. program or has not completed a course load of 15 credit hours with a semester average of at least 65% in a single semester. A student who is prevented from starting the study abroad program for either of these reasons will be permitted to participate in the study abroad program once the student has met these criteria.
2. To ensure that students obtain regional perspectives and skills not available at Memorial University of Newfoundland an approved program must include:
 - a. at foreign language locations, at least 3 credit hours of study of a regional language and at least 6 credit hours with a specific regional content.
 - b. at locations in Britain, Ireland, the US, Australia and New Zealand, at least 9 credit hours with a specific regional content.

For the study abroad program, courses regarded as having specific regional content would include languages, regional studies and other cross-cultural courses as well as approved courses in Economics and Business.

3. Subject to these requirements there is no additional restriction as to the proportion of business or non-business courses studied abroad. For example, an approved study abroad program may contain courses entirely of an 'Arts' nature. It is also possible to select courses that have no exact equivalent at Memorial University of Newfoundland and must be counted as unspecified credit.

Courses studied abroad may be approved as counting toward any of the Curriculum course requirements listed above, but no

course may count towards meeting two such requirements.

4.7.5 Minor From Faculty of Arts

A student enrolled in the i.B.B.A. program may both meet the requirements of the degree and be able to complete a minor within the Faculty of Arts. Regulations for the minor are given under the Calendar entries for the **Faculty of Arts**.

4.7.6 Continuance Regulations

1. The Faculty Council of the Faculty of Business Administration constitutes the examining body for all examinations in Business courses. In addition, the standing of every student will be assessed by the Committee on Undergraduate Studies in accordance with the continuation requirements outlined in 2. and 3. below.
2. Following entry to the program, i.B.B.A. students must qualify for continuation after each term of study. For continuation, students must have an overall average of 65% over their last ten courses taken. In the event that a student has more courses than needed in the earliest term used, the courses with the highest grades in that term will be used.
Students who fail to achieve these standards will be required to withdraw from the program. They may be considered for readmission after a lapse of two semesters. In order to be considered for readmission, students must formally apply for readmission. A required withdrawal for failure to meet **Continuance Regulations** in the i.B.B.A. program will be reflected on a student's transcript.
3. Students who are required to withdraw from the program a second time are not eligible for readmission into their program.
4. The Committee on Undergraduate Studies of the Faculty of Business Administration may allow a student to continue who fails to achieve the standards outlined in 2. above. A decision of this nature will be made only for reasons acceptable to the Committee on Undergraduate Studies.

4.8 Regulations for the Honours Degree of International Bachelor of Business Administration

An Honours degree of Bachelor of International Business Administration signifies superior academic achievement.

1. To be considered for an Honours degree, the candidates must so indicate on the University's official Application for Graduation form. This form may be obtained on-line at the Memorial Self Service at www3.mun.ca/admit/twbkwbis.P_WWWLogin or at the Office of the Registrar.
2. Candidates for the Honours Degree of International Bachelor of Business Administration shall:
 - a. comply with all regulations governing the General Degree of International Bachelor of Business Administration, and
 - b. obtain at least a 75% average and a grade point average of at least 3.5 on the 120 credit hours completed for the degree.
3. Candidates are not permitted to repeat or substitute courses for the purpose of meeting the academic standing specified in Clause 2. In the case of a student who has repeated courses and/or who has completed more than 120 credit hours at the time of application for graduation, applicable courses will be taken in chronological order rather than in order of grade in calculating 2.b. above.
4. A declared candidate for an Honours degree who fails to fulfil the conditions of Clause 2 but fulfils the requirements for a General degree shall be awarded the General Degree of International Bachelor of Business Administration.

5 Business Electives

Only those courses listed below are acceptable as Business electives towards the **Bachelor of Commerce (Co-operative)**, **Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts**, and **Bachelor of Business Administration** programs.

Table 4 Business Electives

BUSI 3101	BUSI 6041-6060	BUSI 6550	BUSI 7330	Computer Science 4767
BUSI 3210	BUSI 6100	BUSI 6605	BUSI 7400	Economics 3000
BUSI 5000	BUSI 6110	BUSI 6610	BUSI 7410	Economics 3010
BUSI 5160	BUSI 6120	BUSI 6700	BUSI 7415	Economics 3030
BUSI 5210	BUSI 6130	BUSI 6701	BUSI 7500	Economics 3150
BUSI 5217	BUSI 6217	BUSI 7005	BUSI 7510	Economics 3360
BUSI 5220	BUSI 6218	BUSI 7010	BUSI 7600	Economics 4025
BUSI 5302	BUSI 6230	BUSI 7110	BUSI 7610	Economics 4026
BUSI 5401	BUSI 6241	BUSI 7120	BUSI 7700	Geography 2195
BUSI 5402	BUSI 6250	BUSI 7150	BUSI 7701	Geography 3202
BUSI 5500	BUSI 6301	BUSI 7160	Computer Science 1710	Geography 3260
BUSI 5530	BUSI 6310	BUSI 7230	Computer Science 2500	Geography 4202
BUSI 5600	BUSI 6311	BUSI 7240	Computer Science 2710	Geography 4261
BUSI 5700	BUSI 6312	BUSI 7250	Computer Science 2711	Mathematics 1001
BUSI 5701	BUSI 6320	BUSI 7310	Computer Science 2752	Mathematics 2050
BUSI 5702	BUSI 6400	BUSI 7315	Computer Science 2760	Mathematics 2090
BUSI 5703	BUSI 6410	BUSI 7320	Computer Science 3710	Political Science 2200
BUSI 6000-6029	BUSI 6415	BUSI 7321	Computer Science 3715	
BUSI 6040	BUSI 6510	BUSI 7322	Computer Science 4761	

6 Waiver of Faculty Regulations

Any student has the right to request waiver of Faculty regulations. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**.

7 Appeal of Regulations

Any student whose request for waiver of Faculty regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

8 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the Faculty.

All courses of the Faculty are designated by BUSI.

8.1 Service Course Descriptions

2000 Business Communications focuses on the development of written and oral communication skills critical in the workplace. The common communications media are reviewed with emphasis on electronic and written correspondence. Students learn how to prepare comprehensive analytical reports including proposal writing. Attention is also given to building confidence in delivering oral presentations and preparing appropriate employment packages. A highly interactive design encourages student practice and participation.

CR: BUSI 2010

UL: may not be used to fulfil any of the requirements of any of the programs of the Faculty of Business Administration including the minor, diploma and degrees

2102 Introductory Accounting for Non-Business Students provides full introductory coverage of both financial and managerial accounting. The course focuses on the most widely used accounting theory and practice.

CR: BUSI 1101 or BUSI 2101

UL: may not be used to fulfil any of the requirements of any of the programs of the Faculty of Business Administration including the minor, certificate, diploma and degrees

8.2 Core and Elective Course Descriptions

Enrolment in Business courses is limited and first priority will be given to students registered in the Faculty of Business Administration programs and to Business Minor Candidates who have obtained the approval of the Dean of the Faculty of Business Administration or delegate.

1000 Introduction to Business in Society (formerly BUSI 2001) introduces the basics of business and business corporations in society, in a real-world relevant manner. Particular attention is given to societal stakeholders and to corporations' internal business processes and management functions. Major emphases include corporate social responsibilities and management ethics, and these are recurring themes in other topics such as technology, globalization and people in organizations. The course is a combination of textbook theory and guided learning activities and assignments based on finding and integrating real-world information.

CR: the former BUSI 2001

1101 Principles of Accounting emphasize the concepts and issues of introductory financial accounting as they relate to the Canadian conceptual framework, and will also address the strengths and weaknesses of financial reporting at an introductory level. The student will be introduced to the

accounting process and analysis of the balance sheet, income statement, and the statement of changes in financial position.

CR: the former BUSI 3100, the former BUSI 2100

1210 Introduction to Marketing Strategy introduces students to the concepts, analyses, and activities that comprise marketing strategy, and provides practice in assessing and solving strategic problems in marketing. The course is also a foundation for BUSI 2210 Introduction to Marketing Tactics, and for advanced electives in marketing. Topics include: marketing strategy, environmental analysis, competitive analysis, customer behaviour, marketing research, segmentation, targeting, and positioning.

CR: the former BUSI 1201 or BUSI 2201 or BUSI 3200

PR: English 1110 or 1021, BUSI 1000, Economics 2010, Economics 2020

1600 Introduction to Entrepreneurship is an introductory course designed to give students a broad understanding of the field of entrepreneurship and the role that entrepreneurship plays in society. Topics will include the nature and theories of entrepreneurship, the characteristics and behaviours of entrepreneurs, and the entrepreneurial process in small and large firms. Students will get to think and act in a creative manner, obtain exposure to local entrepreneurs, assess their potential for entrepreneurial careers and develop attitudes and skills that will be useful in any organization. The course is also useful for those who will be dealing with smaller firms in the context of larger organizations and for those who will be working for entrepreneurs.

PR: BUSI 1000, and English 1110 or 1021

2010 Business Research and Writing introduces students to research, writing, and reporting processes in business. Through ongoing, multi-stage evaluation, students learn the fundamentals of business research, including analytical thinking and proposal writing involving research using secondary sources. A key focus is the writing process, including grammar, punctuation, structure, flow, and format in common business communications media. Students also develop their oral presentation competence by presenting the results of their research. A highly interactive design encourages student practice and participation.

CR: BUSI 2000

PR: BUSI 1000, and English 1110 or 1021

2101 Managerial Accounting provides an overview of the use of financial data for managerial decision making. The student will be introduced to basic budgeting and analysis techniques for both service-oriented and manufacturing businesses.

CR: the former BUSI 4100

PR: BUSI 1101

2210 Introduction to Marketing Tactics introduces students to the concepts, analyses, and activities that comprise marketing tactics, and provides practice in making decisions about tactical problems in marketing. The course is also a foundation for advanced electives in marketing. Topics include: product management, pricing, marketing communications, channels of distribution, implementation, and budgeting.

CR: the former BUSI 1201 or BUSI 2201 or BUSI 3200

PR: BUSI 1210, Mathematics 1000

2400 Decision Modeling provides an introduction to: spreadsheet modeling; linear optimization and the related topics of integer, assignment, and transportation models; and decision analysis including payoff matrices, decision trees, and Bayesian revision. All topics will be taught within the context of business applications.

CO: Statistics 2500

CR: the former BUSI 4401

PR: Mathematics 1000

2710 Modeling and Implementing Business Processes introduces techniques for understanding and modelling business processes and implementing them in modern enterprise systems. Course work will be project-based; students will create small-scale business applications, including web-based applications, using current design and development methodologies and tools.

PR: BUSI 1000, and English 1110 or 1021

3101 Accounting Applications continues the study of accounting on a more in-depth and detailed basis. Building on the theory and concepts of BUSI 1101 and 2101, BUSI 3101 will emphasize the procedures and techniques required for the preparation and presentation of accounting information and general purposes financial statements.

CR: the former BUSI 3100, the former BUSI 2100

PR: BUSI 1101

3210 Consumer Behaviour (formerly BUSI 5200) deals with concepts related to factors which influence the purchase and consumption behaviour of individuals including culture, social class, reference groups, perception, learning, motivation, personality and lifestyle. The unique aspects of groups and organizational buyers will also be examined.

CR: the former BUSI 5200

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

3310 Organizational Behaviour (formerly BUSI 2301 and 4300) focuses on

the study of individual and group processes in formal organizations. The student is introduced to the nature of work, the systematic approach to the study of behaviour, organizational roles and socialization, motivation, leadership, communication, and group dynamics.

CR: the former BUSI 2301 and the former BUSI 4300

PR: English 1110 or 1021

3401 Operations Management teaches fundamental concepts, methods, tools, and techniques to understand, analyze, and effectively manage as well as improve operations in business organizations. The course covers operations competitiveness and strategy, productivity, forecasting, capacity planning, material requirements planning, waiting lines analysis, project management, inventory management, quality control and its improvement, and supply chain management.

CO: BUSI 2710

CR: the former BUSI 5400

PR: Statistics 2500, and BUSI 2400 or the former BUSI 2401

3700 Information Systems examines the operational and strategic importance of information systems in organizations. Topics include: types of systems; business requirements and information systems planning; approaches to acquiring information systems; managing information systems resources; and ethics, security and privacy issues in information management.

CR: the former BUSI 3701

PR: BUSI 1000, and English 1110 or English 1021

399W Work Term I (see description in Work Term Descriptions and course title section below.)

4000 Business Law I (formerly BUSI 3000) is a course dealing with the law relating to certain aspects of business activity; includes introductory material on the nature of law and legal processes, together with a detailed study of certain aspects of the law of contract, examination of the general principles of the law of agency as they affect business operations; introduction to selected topics in company and partnership law.

CR: the former BUSI 3000

4050 Strategic Management 1 introduces students to the strategic management approach. The course builds upon the knowledge and concepts developed in Business 1000 and prepares students for later business courses in their programs, especially Business 7000. Through experience and analysis in and of real or reality-based situations and issues, students will develop critical and integrative thinking and information literacy. Activity and action components of the strategic management process are the basis for student learning. The purpose of this course is to recognize the importance of situational analysis and strategy in the management process, including business functional and organizational integrative thinking, and decision-making regarding courses of action, resource allocation, and leadership.

CO: BUSI 4000 and 4330

PR: BUSI 1600, BUSI 2010, BUSI 2101, BUSI 2210, BUSI 2400, BUSI 3310, BUSI 3401, BUSI 3700

4320 Human Resource Management introduces the student to the design, operation and management of HRM processes, their evaluation, and their contribution to employee and organization effectiveness. The principal processes considered are staffing, development, employment relations, and compensation. Consideration of the influence of relevant organizational and external conditions on HRM is included. The course views the management of human resources as the joint responsibility of line and HRM managers.

PR: BUSI 3310 or the former BUSI 2301

4330 Introduction to Labour Relations (formerly BUSI 3320) provides an introduction to the field of industrial and labour relations in Canada, with primary emphasis on the labour-management relationship. Students will be introduced to the basic elements of an industrial relations system, including the participants, their roles and relationships, the social, economic, legal and political environment in which the participants interact, and the process and outcomes of collective bargaining. Students may be exposed to various role playing exercises that are applicable to industrial and labour relations.

CR: the former BUSI 3320

PR: English 1110 or English 1021

4500 Financial Management I is designed to introduce the student to the role of financial management in business, financial analysis techniques, working capital management, and long-term and short-term financing.

CR: the former BUSI 4110

PR: BUSI 1101, Statistics 2500, and Economics 2010

450W Business Methods in Practice I (see description in Comprehensive Case Analysis Descriptions and course title section below.)

499W Work Term 2 (see description in Work Term Descriptions and course title section below.)

5000 Business Law II is designed to show the student how principles of Law are applied to four areas of Business. The areas dealt with in this course are accounting/finance, marketing, personnel and production.

PR: BUSI 4000

5160 Cost Accounting (formerly BUSI 7100) deals with the use of accounting data for decision making. Topics covered include: cost estimation, pricing, joint costs, advanced variance analysis, total quality management, just-in-time, decentralization, transfer pricing, performance evaluations, activity based accounting, and backflush costing.

CR: the former BUSI 7100

PR: BUSI 2101, or the former BUSI 3100 and the former BUSI 4100

5210 Marketing Communications (formerly BUSI 6210) provides a theoretical background on the nature, role and principles of marketing communications; and develops analytical and decision-making skills in planning, executing, evaluating and controlling marketing communications campaigns.

CR: the former BUSI 6210

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

5217 Professional Selling provides a detailed introduction to and application of the principles of personal selling. The course introduces the basic concepts of professional selling, including customer analysis, communication skills, effective openings and closings, and customer relations. Selling skills and concepts are developed through the extensive use of sales exercises, role-plays and presentations.

CR: the former BUSI 6220

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

5220 Marketing Research (formerly BUSI 6200) is designed to acquaint the student with the use of marketing research as an aid to management. This is a comprehensive survey of the scope and methods of marketing research.

CR: the former BUSI 6200

PR: Statistics 2500, BUSI 2010, and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

5301 Organizational Theory (formerly BUSI 5300) focuses on the organization, its environment, and its subsystems. From providing a basic appreciation of the role and practice of research in organizations, study extends to measures of organizational effectiveness, determinants of structure and design, power and politics, intergroup conflicts and conflict resolution, and organizational development and change.

CR: the former BUSI 5300

PR: BUSI 3310 or the former BUSI 2301

5302 International Business (formerly BUSI 7302) is designed to introduce students to the issues of international business: these are the processes of cultural confrontation and compromise; the problems of competitive sovereignty involving multinational corporations and the governments of host societies; the organization, structure, operation and control of diverse international businesses; and, finally, the role of multinational enterprise as a catalyst in economic development and resource employment, in particular, the North-South context. The relevance of international business as an area of study to the Canadian economy is discussed. The course is both conceptual and empirical in content.

CR: the former BUSI 7302

PR: BUSI 1000, Economics 2010 and Economics 2020

5401 Linear Optimization and Extensions I: Applications is more complex linear optimization models. Emphasis will be on formulation and computer-based sensitivity analysis, applications to other fields of business, cases in linear optimization and related fields.

PR: BUSI 2400 or the former BUSI 4401

5402 Linear Optimization and Extensions II: Algorithms include the simplex and revised simplex algorithms, sensitivity analysis and duality, goal optimization, advanced formulation of 0/1 models, branch and bound algorithm, network models; assignment, transportation, transshipment, shortest path, critical path, minimal spanning tree, and maximal flow.

PR: BUSI 2400 or the former BUSI 4401

5500 Financial Management II (formerly BUSI 7140) is an extension of BUSI 4500. Capital investment decision-making using discounted cash flow methodology; investments under certainty; financial structure and leverage; analysis of money and capital markets; further examination of long-term external financing.

CR: the former BUSI 5140, the former BUSI 7140

PR: BUSI 4500 or the former BUSI 4110

5530 Public Finance (formerly BUSI 5100) recognizes the large role played by government in our society. Sources and uses of government funds at the federal, provincial and local levels will be covered. Intergovernmental fiscal problems will be examined with special emphasis on various incentive programs available to business from the three levels of government.

CR: the former BUSI 5100

PR: Economics 2010 and Economics 2020

5600 New Venture Creation (formerly BUSI 5030 and BUSI 7030) covers the business creation process from the idea conception stage to the launch stage. Students learn how to search for, screen and evaluate opportunities, and to plan and assemble the required resources, including the preparation of an actual business plan. Alternatives to new venture creation, such as

purchasing an existing business and purchasing a franchise, are also explored. Extensive group work is required.

CR: the former BUSI 5030, the former BUSI 7030

PR: BUSI 1101, BUSI 1600, and BUSI 2210

5700 Information Systems Analysis and Design provides students with the skills to identify business problems which may be solved using information technology, determine requirements for information systems (IS) solutions, and develop detailed designs which form the basis for implementing systems. Topics may include: role of the user in systems development, systems development life cycle, requirements analysis and conceptual modelling, structured analysis and design, and trends in systems development methodologies. The importance of CASE tools in modern systems development will be emphasized through hands-on exercises.

PR: BUSI 3700

5701 Information Systems Development - inactive course.

5702 Business Models and Strategy of Electronic Commerce (formerly BUSI 6027) examines business concepts, social issues, and technology issues related to e-commerce, as well as providing an introduction to current practices, opportunities and challenges in implementing e-commerce solutions. Topics include: business models associated with web-based commerce; security, privacy, and intellectual property issues; payment and distribution systems; internet marketing; and strategic and planning issues.

CR: the former BUSI 6027

PR: BUSI 3700

5703 Information Security, Privacy, and Ethics examines the use of information technology and related privacy, security, and ethical issues in the information age. Topics covered will include information and property rights and obligations; system quality; quality of life; accountability and system controls; behavioural factors that can lead to data loss; legal issues; and managerial responsibilities. The course examines these topics from individual, society, and business perspectives.

PR: BUSI 3700

599W Work Term 3 (see description in Work Term Descriptions and course title section below)

6000-6029 (Excluding 6001, 6004, 6008, 6009, 6010, 6012, 6021, 6022, 6024 and 6027) Special Topics will have the topics to be studied announced by the Faculty.

6010 Strategic Management of Technology and Innovation is designed to explore the strategic management of technology and innovation for improving competitiveness and for business development. This will include market-strategy-technology connections, and technical innovation/new product development processes. Technology and technical innovation are viewed as fundamental to strategic competitiveness and business development as important elements of the management of strategic change in the business firm. In approaching technical innovation as strategic implementation, business environmental, organizational capability, human resources and management factors will be discussed.

PR: BUSI 3700, BUSI 4050, BUSI 4320, BUSI 4500, and BUSI 5301

6040 International Business Law develops the skills a business student must have in understanding the laws and regulations that exist and relate to international business decision making. The course will equip students with a knowledge and understanding of laws and regulations that currently prevail in international business operations.

PR: BUSI 4000

6041-6060 Special Topics Courses will have the topics to be studied announced by the Faculty.

6100 Intermediate Accounting I continues the study of financial accounting by focusing on specific topics such as current assets, long-term investments, capital assets, intangibles, current liabilities, and long-term liabilities. Emerging issues in accounting will also be covered.

PR: BUSI 3101 or the former BUSI 3100

6110 Intermediate Accounting II is designed to integrate the principles, concepts and skills acquired in previous accounting courses and to enhance the student's analytical and decision-making capabilities. The course will focus on specific topics related to deferred taxes, pension liabilities, shareholders' equity, and financial statement presentation. The skills acquired in earlier courses will be integrated for purposes of interpreting and analysing financial information.

PR: BUSI 3101 or the former BUSI 3100

6120 Taxation I is a determination of income tax liability of individuals and corporations, and a survey of sales taxes.

PR: BUSI 1101 or the former BUSI 3100, and BUSI 4000

6130 Auditing introduces the student to the practice of auditing and to stress the auditor's decision-making process when determining the nature and amount of evidence the auditor should accumulate. Specific topics to be covered include the auditor's legal liability, materiality, internal control, transaction cycles, and audit of information processed through electronic

data processing systems.

PR: either BUSI 6100 or BUSI 6110

6217 Salesforce Management examines the elements of an effective salesforce as a key component of the organization's total marketing effort. The course will apply theory relating to salesforce management from a manager's point of view. Topics include the sales process, the relationship between sales and marketing salesforce structure, territory design, use of technology to improve salesforce effectiveness, and issues in recruiting, selecting, training, motivating, compensating and retaining salespeople.

CR: the former BUSI 6220

PR: BUSI 2010 and any of: BUSI 2210 or the former BUSI 2201, the former BUSI 3200

6218 Customer Relationship Management (CRM) is the evolution and integration of marketing ideas, data, technology, and organizational factors. Relying on the integration of people, processes, and marketing capabilities and facilitated by information technology, effective CRM optimizes the identification, acquisition, growth, and retention of desired customers. The history of CRM and the benefits and challenges of its implementation in business and consumer markets are addressed. The course culminates in the student's creation of a CRM strategic plan.

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

6230 Services Marketing is intended to examine the marketing of services and the role of services in supporting the marketing of tangible products. The distinction between the marketing of tangibles and intangibles will be stressed. The course will identify and examine the distinct issues which are encountered in the marketing of services and will explore appropriate strategies for implementing services marketing programs, primarily in services organizations, including health care, transportation, telecommunications, education, etc. Specifically, the course will examine in detail the role of people in delivering services, the importance of service quality as a strategic differentiating tool, and the importance of collaboration between marketing and human resources management in the delivery of services.

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

6241 Digital Marketing is designed to acquaint students with Internet and other electronic based marketing efforts. It addresses the use of the Internet as a digital channel and communications medium.

CR: the former BUSI 6004 and the former BUSI 6240

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

6250 Retailing Management (formerly BUSI 7210) provides an integrative examination of the activities involved in marketing goods and services directly to the ultimate consumer. Specifically, the following areas will be examined within a managerial framework: the evolution of retailing; retailing within the marketing channel; market analysis and planning; shopping behaviour; image and retail advertising; trading area and site analysis; store layout; shelf space utilization; merchandising; and the future prospects for retailing.

CR: the former 7210

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

6301 New Directions in Organizational Behaviour provides an opportunity for students to explore and to develop their interests in topics in a dynamic field. Topics will be selected according to current emphases in the organizational behaviour literature.

PR: BUSI 3310 or the former BUSI 2301, and BUSI 5301

6310 Advanced Human Resource Management reinforces the applied aspects of theory covered in BUSI 4320 by examining approaches to (a) the avoidance of lawsuits, arbitration and performance-related problems which could result from the lack of both due process and effective policies and procedures, and (b) processes for the management of contemporary issues in Human Resource Management. Topics include problem solving in the areas of promotion policy, performance appraisal, test validation, training and development, compensation, job evaluation and pay equity, wrongful dismissal, occupational health and safety, absenteeism, substance abuse and AIDS. Students will examine cases and other material involving worker-management conflict in the above areas and seek to relate these to the legal, ethical and behavioural foundations of Human Resource Management in both unionized and non-unionized settings.

PR: BUSI 4320

6311 International Human Resources Management develops the skills a business student must have in understanding the processes and practices of international human resource management (IHRM) for a successful managerial career. The course will equip students with a solid knowledge and understanding of human resource functions and practices that currently prevail in global/international business operations.

PR: BUSI 4320

6312 Employee Recruitment and Selection (formerly BUSI 6022) is a critical factor in creating high performance work systems. This course

examines the role of selection in HRM, legal issues, measurement, selection criteria, job competencies, testing, and interviewing, and making the employment decision.

CR: the former BUSI 6022

PR: BUSI 4320

6320 Advanced Labour Relations provides advanced level treatment of the field of industrial and labour relations in Canada, with primary emphasis on the labour-management relationship. Emphasis is placed on understanding recent problems/issues in industrial and labour relations and the range of options available for resolving these same problems. Topics examined may include: industrial relations theory; labour law reform; union growth and structure; management strategy; the role of third parties; workplace innovations; alternative dispute resolution mechanisms; union impact; public sector labour relations; comparative industrial relations; etc. Students may be exposed to various role playing exercises that are applicable to industrial and labour relations.

PR: BUSI 4330 or the former BUSI 3320

6330 International Labour Relations (same as the former BUSI 6024) aims to place Canadian industrial relations in an international context by studying industrial relations in a number of different countries, bearing in mind the challenges faced by practitioners and policy makers arising from globalization and the information age. The review includes a selection of long established industrialized countries as well as later industrializing countries.

CR: the former BUSI 6024

PR: BUSI 4330

6400 Advanced Management Science provides advanced level treatment of special topic(s) in Management Science, such as, waiting lines, stochastic dominance, stochastic dynamic programming, etc. The topic(s) to be covered in any particular year will be chosen by the Instructor and may vary from year to year.

PR: BUSI 5401 or BUSI 5402

6410 Logistics Management will focus on transportation, location, procurement and distribution aspects of logistics management, within local and global settings. A number of classical and latest models related to the focus areas would be introduced, and some real-life case examples discussed. The focus is on modes of transportation, transportation management, facility location, procurement and supplier selection, distribution strategies, and global logistics.

PR: BUSI 3401, BUSI 5401 and BUSI 5402

6415 Supply Chain Management is about the management of the processes, assets, and flows of material and information required to satisfy customers' demands. In this course, a few important supply chain drivers will be identified and investigated in details such as inventory, information and pricing. Those drivers determine the performance of a supply chain. The understanding of these key drivers and their inter-relationships with strategy and other functions of the company are really crucial in the management of any supply chain.

CO: BUSI 3401 and BUSI 3700

6510 Investments (formerly BUSI 6140) is a study of investment securities, risks, markets and mechanics; an appraisal of the economy, the industry and the firm; and portfolio management for personal and institutional investments.

CR: the former BUSI 6140

PR: BUSI 4500 or the former BUSI 4110

6550 International Finance examines the additional risks and profitable opportunities that arise for the firm when it extends its operations into international markets. Specific topics will include the determination of exchange rates, the international monetary system, balance of payments, the foreign exchange market, international money and capital markets, the parity conditions, accounting exposure, economic exposure, transactions exposure, political risk, and global financing. Knowledge of these topic areas will give further understanding with respect to operating within the constraints of the international marketplace.

CR: the former BUSI 6008, the former BUSI 6500

PR: BUSI 4500 or the former BUSI 4110

6605 Small Business Consulting introduces students to the nature of business consulting and the challenges associated with growth in small firms. The course draws upon knowledge from various functional areas and emphasizes complex and interdisciplinary applications of this knowledge in a real-world environment. Topics include models of the consulting process, problem diagnosis, managing the client relationship, research design, document preparation and ethics in consulting. Working in teams students will undertake a problem-solving project for a local organization. Students will not be permitted to register for the course after the first day of classes.

AR: attendance is required

PR: BUSI 4050, BUSI 5301

6610 Small Enterprise and Regional Development (formerly BUSI 7031) explores the potential and constraints on efforts to foster small enterprise formation and expansion as a means to promote regional economic development. It critically examines government initiatives to promote small

business as the panacea for depressed regional economies, and reviews changes in the global economy and the organization of production which may enhance small business competitiveness. Both Canadian and international cases are studied, with theoretical and empirical findings related to the Newfoundland context.

CR: the former BUSI 6009, the former BUSI 7031

6700 Data Management is based on the premise that data is a valuable resource which needs to be managed effectively to provide accurate, complete, timely, relevant, and accessible information to support decision making. Topics may include: enterprise data modelling, logical database design, database management systems, query languages, transaction management and concurrent access, and security.

PR: BUSI 3700 or the former BUSI 6300

6701 Information Technology Management examines issues of managing information systems and technology. Topics may include: success and failure in IS implementation, IS planning, economics of IS, telecommunications and network management, and legal and ethical issues.

PR: BUSI 3700 or the former BUSI 6300

7000 Strategic Management 2 emphasizes concepts of strategic management and strategy in various contexts and situations covering corporations and businesses, and other institutions or organizations and their purposeful activities. Through in-depth analysis of reality-based situations and strategic issues, students will develop their contextual and situational orientation, and further develop their applied, investigative critical thinking and information search skills. Further, students will be expected to develop an applied ability in the contextual and situational analysis of corporations/businesses and institutions/purposeful activities, and in corresponding strategy formulation and planning for strategy implementation. Student learning activities may be based on published business cases, decision-making and group dynamics exercises, business simulation exercises, and information search projects. Learning outcomes also may include research and information search methodologies and information literacy, and good writing.

CO: BUSI 5301

PR: BUSI 4050, BUSI 4320, and BUSI 4500

7005 International Strategic Management (same as the former BUSI 6012) examines corporate strategy and strategic management in enterprises whose interests extend across national boundaries. International business managers and consultants must be able to formulate business strategy in environments that are affected by different politics, cultures, laws, economics, among other factors. The adept international business strategist will have a competitive edge if able to be at home in looking at international issues through a multidisciplinary prism. This course strives to help students to develop such an edge by providing an opportunity to acquire the knowledge and skills necessary to understand and make strategic decisions in the international business environment.

CR: the former BUSI 6012

PR: BUSI 5302

7010 Business and Society examines the inter-relationships among business, government, society and the environment. Topics include: the social-economic business system, business ideologies, social responsibilities of business, business ethics, stakeholder and issues management, and selected current issues in business.

PR: BUSI 5301

7110 Accounting Theory deals with the theoretical issues of specific topics such as the accounting standard setting process, the Canadian conceptual framework, assets, liabilities, revenues, expenses, not-for-profit organizations, related party transactions, and financial statement presentation and disclosure. Considerable emphasis will be given to emerging issues.

PR: BUSI 6100, BUSI 6110, BUSI 6120, and BUSI 6130

7120 Advanced Financial Accounting covers specific topics such as long-term investments, consolidated financial statements, joint ventures, segmented financial information, foreign exchange transactions, and fund accounting.

PR: BUSI 6100 and BUSI 6110

7150 Taxation II is designed to provide a detailed and comprehensive analysis of income taxation as well as sales taxation and customs duties and excise taxes. Information relating to the use of trusts, partnerships, and joint ventures will be included, as well as the use of various tax shelters and international tax implications in business planning. The concentration will be on how tax planning for both individuals and corporations can be a significant element in the regular decision-making process, especially for the private corporation.

PR: BUSI 6120

7160 Advanced Topics in Managerial Accounting introduces the student to an in-depth study of advanced qualitative and quantitative methodology available to the managerial accountant. The application of mathematical models and behavioural theories to realistic challenges faced by various fiscal entities will be stressed. Class instruction will include the use of cases and rely heavily on a multidisciplinary approach towards solving the

unstructured problem.

PR: BUSI 5160

7230 Marketing Management is designed to integrate the principles, concepts and skills acquired in previous marketing courses and to enhance the student's analytical and decision-making capabilities with regard to developing marketing strategies. The course will focus on: market analysis, marketing planning, the strategic decisions to be made within the framework of the marketing mix (product, price, promotion, and distribution); and the control systems related to the marketing program. The use of market research and knowledge from other functional areas of the organization (accounting, finance, economics, etc.) will be considered throughout the course.

PR: BUSI 2010, BUSI 3210 or the former BUSI 5200, BUSI 4500, and BUSI 5220

7240 International Marketing provides an understanding of the effects that the international dimension has upon the strategies and management of the marketing efforts of the firm. In particular, the student is introduced to the analysis techniques of the various environments that constitute a country analysis. Entry strategies are discussed with an emphasis upon the export process. Finally, the standardization/adaptation question is discussed in the context of each element of the marketing mix.

CR: the former BUSI 6001

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

7250 Business and Industrial Marketing (formerly BUSI 7220) presents a comprehensive view of business markets, including industrial, institutional, and government markets. There is a balanced focus on strategy development and implementation. Particular attention is given to organizational buying behaviour, relationship management, global competitiveness, and the marketing of new high technology products and services.

CR: the former BUSI 7220

PR: BUSI 2010 and any of: BUSI 2210, the former BUSI 2201, the former BUSI 3200

7310 Seminar in Human Resource Management seeks to integrate policies, procedures and methods covered in BUSI 6310 with other functional areas which impact upon the management of Human Resource Systems. Stakeholder assumptions about: work-force characteristics; management philosophy; business strategy; labour markets; laws and society; task technology and unions will be examined via a combination of cases, readings, research, peer discussion and dialogue with guest speakers.

PR: BUSI 4320

7315 Human Resource Management Training exposes students, through a variety of methods including lecture, discussion, case analysis, research, and the development of a detailed training program, to many topics in the area of human resource management training; including: needs analysis, training design, on and off-the-job training methods, technology and training, training implementation and delivery, transfer of training, and training evaluation.

CR: the former BUSI 6021

PR: BUSI 4320

7320 Collective Agreement Administration and Arbitration provides advanced coverage of the substantive and procedural rights of employers, unions and employees under collective agreements, and the means by which disputes over these rights are resolved through the grievance arbitration process. Topics examined include: the legal framework and place of grievance arbitration in the industrial relations system; the nature and scope of the arbitrator's role; preparation for and conduct of arbitration hearings; arbitral jurisprudence; alternative dispute resolution processes; and the development of a sound labour relations climate. Students will undertake extensive reviews of labour arbitration cases and will examine the impact of jurisprudence on the philosophy and practice of management in the private and public sectors. Students may be exposed to various role playing exercises that are applicable to industrial and labour relations.

PR: BUSI 4000 and BUSI 4330

7321 Dispute Settlement in Labour Relations provides advanced level study of conflict in industrial relations, its determinants, the various institutional procedures used to deal with it, and the effectiveness of these same procedures. Topics examined include: theories of industrial conflict; the legal framework; union and employer strategies; interest dispute resolution; the right to strike and alternatives to same; the role and effectiveness of alternative forms of voluntary and compulsory third party assistance; etc. Students may be exposed to various role playing exercises that are applicable to industrial and labour relations.

PR: BUSI 6320

7322 Labour Law provides an overview of laws regulating the employment relationship in Canada, including the common law, general employment and collective bargaining laws, and the Charter of Rights and Freedoms. Emphasis is placed on the law of collective bargaining in the private sector, including the acquisition and termination of bargaining rights, unfair labour

practices, the duty to bargain, industrial conflict and the administration of the collective agreement.

PR: BUSI 4000 and BUSI 4330

7330 Organizational Development - inactive course.

7400 Simulation in Management emphasizes the use of simulation modeling technique to study and analyze management systems. Generally, simulation is considered as an experimental technique and is used in problem situations whose complexity precludes the use of analytical problem solving techniques. Topics to be covered include: simulation methodology, model building, developing and building simulation models, simulation languages, generation of random numbers, and simulating a business system. Computers and case studies will be used to study various applications of simulation in Business.

PR: : BUSI 5401 or BUSI 5402

7410 Project Management introduces appropriate methodology and theory for selecting, planning and managing projects. This includes the project portfolio selection, the initial creation of a plan in terms of the breakdown of the tasks, construction of the relationships and dependencies inherent in any plan, and controlling the execution of the activities according to the plan as the project proceeds. Emphasis will be placed on resource allocation, leveling and management, critical path analysis, risk analysis, accounting for uncertainties and time-cost trade offs. The role of the project manager and project team as well as issues related to multi-project management will also be addressed.

PR: BUSI 3401 and BUSI 5401

7415 Managing Business Process Flows employs a logical, rigorous approach to studying the fundamentals of business processes. This approach is based on modeling business process and its flows, studying causal relationships between the business process and its performance, and formulation implications for managerial action by determining business process drivers and their impact on process management and performance. The focus is on business process flow, capability, productivity, variability, control, improvement, risk sharing and management, coordination and integration.

PR: BUSI 3401, BUSI 3700, BUSI 5401

7500 Advanced Finance (formerly BUSI 7130) examines advanced developments in finance. Several topics will be selected, researched and discussed. These topics shall vary as financial practices change.

CO: BUSI 6510

CR: the former BUSI 7130

PR: BUSI 5500

7510 Options and Futures (formerly BUSI 7170) is an extension of BUSI 6510 Investments which will introduce the student to the workings of the options and futures markets. Specific topics will include the institutional structure of the markets, option pricing, strategies such as straddles and spreads, hedging, spot/forward/futures markets, speculation, risk transference and market efficiency considerations.

CR: the former BUSI 7170

PR: BUSI 6510 or the former BUSI 6140

7600 Current Topics in Entrepreneurship (formerly BUSI 7032) endeavours to address recent research findings in various aspects of entrepreneurship. Students will have the opportunity to pursue issues in entrepreneurship development covering a wide range of topics using publications, journals and conference proceedings.

CR: the former BUSI 7032

PR: BUSI 5600

7610 Regulatory and Taxation Issues for Small Business is designed to provide students with a general knowledge base of the various tax and other regulatory issues that should be considered in starting a business. The role that tax plays in decision making will be examined as well as the types of corporate funding to establish a new business through government grants, conventional loans and tax credits as provided under the Income Tax Act. Alternative corporate structures will be examined as well as aspects of employee compensation and business valuations. Practical aspects of starting your own business, such as registration requirements, will also be examined.

PR: BUSI 6120

7700 Strategic Information Systems - inactive course.

7701 Current Topics in Information Systems examines new developments and trends in information systems. The scope of the course includes: implications of emerging hardware and software technologies, emerging systems applications, and the state-of-the-art in IS management practice. Specific topics will change each year. Readings assigned from professional and academic journals will form the basis of class discussion.

PR: BUSI 5700, BUSI 6700, and BUSI 6701

Commerce Co-operative program only.

The objectives of the Work Term component of the Business Administration Co-operative Program are embodied in the Work Term descriptions below. The descriptions serve to guide the student and employer toward achieving these objectives and to guide Business Co-operative Education and the Faculty of Business Administration in monitoring and evaluating each student's progress.

399W Work Term 1 follows the successful completion of Academic Term 3. For most students, it represents their first professional work experience in a business environment and as such represents their first opportunity to evaluate their choice of pursuing a career in business administration. Students are expected to learn, develop and practice the high standards of behaviour and performance normally expected in the work environment. (A detailed description of each job is normally posted during the job competition.)

As one component of the work term, the student is required to complete a work report. The work report, as a minimum requirement should

- analyse an issue/problem related to the student's work environment,
- demonstrate an understanding of the structure of a professional report, and
- show reasonable competence in written communication and presentation skills. Students should consult **UNIVERSITY REGULATIONS - Good Writing**, and the evaluation form provided in the placement package.

Notes: 1. *Students shall not conduct primary research as part of the Work Report.*

2. *Seminars on professional development, conducted by Business Co-operative Education Coordinators, are presented during Academic Term 3 to introduce and prepare students for participation in the subsequent work terms. Topics may include work term evaluation, work report writing, career planning, self-marketing skills, resume preparation, self-employment, workplace ethics, sexual harassment and workplace safety.*

499W Work Term 2 follows the successful completion of Academic Term 4. Students are expected to further develop and expand their knowledge and work-related skills and should be able to accept increased responsibility and challenge. In addition, students are expected to demonstrate an ability to deal with increasingly complex work-related concepts and problems. Students should conscientiously assess the various business opportunities relative to their individual interests.

The Work Report, as a minimum requirement should

- analyse an issue/problem related to the student's work environment and demonstrate an understanding of business concepts relative to the student's academic background,
- demonstrate competence in creating a professional report, and
- show competence in written communication and presentation skills.

Note: *Students are permitted to conduct primary research as part of the Work Report, when it is required to achieve the report's research objectives. If primary research is conducted as part of the Work Report, it must be conducted in accordance with all policies and regulations of the University and the Faculty of Business Administration, including Memorial University of Newfoundland's policy on ethics of research involving human participants (www.mun.ca/policy/site/policy.php?id=139).*

599W Work Term 3 follows the successful completion of Academic Term 5. Students should have sufficient academic grounding and work experience to contribute in a positive manner to the management and problem-solving processes needed and practiced in the workplace. Students should become better acquainted with their discipline of study, should observe and appreciate the attitudes, responsibilities, and ethics normally expected of business managers and should exercise greater independence and responsibility in their assigned work.

The Communications Component should reflect the growing professional development of the student and, as a minimum requirement, the student will;

- demonstrate an ability to analyse a significant business issue/problem related to the student's experience in the workplace,
- demonstrate a high level of competence in delivering a professional oral presentation, and
- demonstrate a high level of competence in written communications.

The Communications Component for Work Term 3 consists of an Oral Presentation on a workplace-related business issue/problem. The presentation should be of about seven minutes duration followed by a three-minute question period and will normally be given on campus in a formal setting after students have returned to Academic Term. A written Executive Summary is also required. Guidelines for the preparation and delivery of this oral presentation along with deadlines are provided in the *Business Co-operative Education Handbook* located online at www.mun.ca/coop/programs/business/Business_CO-OP_HANDBOOK.pdf.

8.3 Work Term Descriptions

The following work terms are a requirement of the Bachelor of

8.4 Comprehensive Case Analysis Description

The following course of study is an academic requirement of the Diploma in Business Administration and does not carry academic credit.

450W Business Methods in Practice is a non-credit course in which each

student will undertake an analysis of an assigned case. A written report is mandatory. Evidence of the student's understanding of various business methods and the ability to gather material relating to the report, analyse it effectively, and present it in a clear, logical and concise form, will be required in the report.

CH: 0

PR: approval of the Dean or delegate

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

Archived Previous Calendar
Current University Calendar available at:
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FACULTY OF EDUCATION

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FACULTY OF EDUCATION

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Associate Dean, Graduate Programs and Research

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Associate Dean, Undergraduate Programs

Goodnough, K., B.Sc., B.Ed., M.Ed. *Memorial*, Ph.D. *O.I.S.E.*;
Associate Professor

Professores Emeriti

Crocker, R.K., B.Sc., B.Ed. *Memorial*, Ph.D. *Alberta*
Doyle, C., B.A.(Ed.) *Memorial*, M.A. *Providence*, Ed.D. *Boston*
Martin, W.B.W., Dip.Ed., B.Ed., M.A. *Memorial*, Ph.D. *York*
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Tite, R., B.A., M.Ed., Ph.D. *Toronto*
Treslan, D.L., B.A., B.Ed. *Saskatchewan*, Dip.Ed.(Admin.), M.Ed., Ph.D. *Calgary*
Yeoman, E., Bacc.ès.Arts *Moncton*, B.Ed. *Mount Allison*, M.Ed., Ph.D. *Toronto*

Associate Professors

Adams, C.K., B.M.E. *Evangel College*, M.Mus. *Northwestern*, Dip. Fine Arts *Calgary*

Burke, A.M., B.A., B.Ed., M.Ed. *Memorial*, Ph.D. *Toronto*
Delaney, J., B.A., B.Ed., M.Ed. *Memorial*, Ph.D. *Alberta*
Gardner, M., B.A.(Hons.) *Western Ontario*, M.A., Ph.D. *Toronto*
Haché, G.J., B.Sc. *Central Connecticut State Teachers College*, M.Ed. *Alberta*, Ph.D. *Texas A&M*
Harris, G.E., B.A.(Hons.) *Saint Mary's*, M.Sc. *Calgary*, Ph.D. *Alberta*; Cross appointment with Counselling Centre and Department of Psychology
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Hurley, N., B.A., B.Ed., M.Phil. *Memorial*, Ph.D. *Ottawa*
Johnson, T.D., B.A., B.Ed., M.Ed., Ph.D. *Memorial*
Kirby, D., B.Sc., M.Ed. *Memorial*, Ph.D. *Toronto*
Kondratieva, M., M.Sc. *Moscow Inst. of Electronics & Math*, Ph.D. *Tomsk State*; Joint appointment with Department of Mathematics and Statistics
Okshevsky, W., B.A. *Concordia*, M.A. *York*, Ph.D. *O.I.S.E.*; Cross appointment with Department of Philosophy
Schulz, H., B.Ed., M.Ed. *Calgary*, Ph.D. *Alberta*

Assistant Professors

Badenhorst, C.M., B.A.(Hons.) *University of the Witwatersrand, South Africa*, M.A. *British Columbia*, Ph.D. *Queen's*
Cannon, P.L., B.A.(Hons.), M.A. *London*, Ed.D. *British Columbia* (on leave)
Doyle, A., B.A.(Ed.), B.Spec.Ed., M.Ed. *Memorial*, Ph.D. *Toronto*
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Hesson, J., B.A.(Hons.), M.Sc. *Memorial*, Ph.D. *Victoria*
Joy, R.M., B.Sc., M.Ed. *Memorial*, Ed.D. *O.I.S.E.*
Li, X., B.A. *Xi'an Foreign Language University*, PG Dip. *Northwest, M.A. Carleton*, Ph.D. *Queen's*
Mattatall, C.A., B.A. *Bethany*, B.Ed., M.Ed. *New Brunswick*, Ph.D. *Queen's*
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Penney, S., B.S.W. *Memorial*, M.Ed. *New Brunswick*, Ph.D. *Alberta*
Pickett, S., B.A. *National University*, M.A., Psy.D. *Philips Graduate Institute*
Shea, R.J., B.A., B.S.W., M.Ed. *Memorial*, Ph.D. *Calgary* (on leave)
Stordy, M.M., B.A., B.Ed. *U.P.E.I.*, M.Ed. *Memorial*, Ph.D. *Calgary*
Vaandering, D., B.A.(Ed.) *Iowa*, M.Ed., Ph.D. *Western Ontario*
Young, G., B.A., B.Ed. *Brock*, M.Ed. *Western Ontario*

Librarian III

Maddigan, B., B.A. *Memorial*, M.L.I.S. *Western Ontario*

Adjunct Professors

Barter, B., B.A., B.Ed. *Memorial*, Dip. Fine Arts *Calgary*, M.Ed., Ed.D. *Toronto*
Fagan, W.T., B.A., B.Ed. *Memorial*, M.Ed., M.Ed., Ph.D. *Alberta*

Professional Associate

Vaughan, A.M., B.A., B.Ed. *Memorial*, M.A. *British Columbia*

Cross Appointments

Curran, V.R., B.A. *Memorial*, Dip.Ad.Ed. *St. Francis Xavier*, M.Ed. *Dalhousie*, Post Grad. Cert. *British Columbia*, Ph.D. *Guelph*; Cross appointment from the Faculty of Medicine
Francis, S.E., B.A. *State University of New York at Albany*, M.A., Ph.D. *Hawaii*; Cross appointment from the Department of Psychology
Hardy, D., B.S.W. *Memorial*, M.S.W. *Carleton*, Ed.D. *Maine*; Cross appointment from the School of Social Work
Mezo, P.G., B.Sc.(Hons.) *Toronto*, M.A., Ph.D. *Hawaii*; Cross appointment from the Department of Psychology

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Faculty of Education Degree Regulations

2.1 Mission Statement for the Faculty of Education

The Faculty of Education is committed to improving the human condition through education. The Faculty is dedicated to leadership and exemplary practice in teaching and learning, research and scholarship, and public engagement in local and global communities.

Additional information regarding the Faculty of Education is available at www.mun.ca/educ.

2.2 Degree Programs

The following Degree and Diploma Programs are offered through the Faculty of Education:

1. Bachelor of Education (Primary/Elementary) as a First Degree
2. Bachelor of Education (Primary/Elementary) as a Second Degree
3. Bachelor of Education (Intermediate/Secondary)
4. Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education
5. Bachelor of Music Conjoint with Bachelor of Music Education
6. Bachelor of Music Education as a Second Degree
7. Bachelor of Education (Native and Northern)
8. Bachelor of Special Education
9. Bachelor of Education (Post-Secondary) as a First Degree
10. Bachelor of Education (Post-Secondary) as a Second Degree

2.3 Diploma Programs

Diploma in Adult Teacher Education

Diploma in Native and Northern Education (T.E.P.L.)

Diploma in Post-Secondary Education

2.4 Student Responsibility Clause

The Office of Undergraduate Student Services, Faculty of Education, will assist students with questions or problems which may arise concerning their programs. It is, however, the responsibility of students to see that their academic programs meet the Faculty of Education and the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.

2.5 Teacher Certification

Teacher Certification is a Provincial responsibility. Students are advised to contact Teacher Certification in writing at Teacher Certification and Records, Department of Education, P.O. Box 8700, St. John's, NL, A1B 4J6, or by visiting the website at www.ed.gov.nl.ca/edu/k12/teaching/certification.html for advice regarding Teacher Certification Regulations.

2.6 Admission

Note: *It is possible that individuals who have been convicted of a crime against a person may not be accepted into a school for any activities which are required under the Faculty of Education degree and diploma regulations.*

1. Admission to programs within the Faculty of Education is limited, selective and highly competitive. Meeting minimum admission requirements does not guarantee acceptance to a program. The Faculty reserves the right to limit the number of spaces available in each program. When the number of eligible applicants exceeds the number of spaces available in a particular program, preference may be given to students who are permanent residents of Newfoundland and Labrador.
2. Applicants for admission to a program within the Faculty of Education must submit the appropriate completed Faculty application form, and if applicable a form for admission/readmission to the University. Application forms and transcripts from institutions other than Memorial University of Newfoundland must be sent to the Office of the Registrar in accordance with the deadlines specified for each program in the **Application Deadline Dates** table. Letters of reference and personal statement as required by the application form must be forwarded directly to the Faculty of Education Undergraduate Admissions Office. Students who must apply for admission/readmission to the University must also submit the General Application for Admission/Readmission to the Office of the Registrar within the deadlines specified in the **University Diary**.

Application Deadline Dates

Program	Commencement Date	Application Deadline
Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program	Spring	December 1
Bachelor of Education (Primary/Elementary) as a First Degree Integrated Delivery Program	Fall	December 1
Bachelor of Education (Primary/Elementary) as a Second Degree	Spring	December 1
Bachelor of Education (Intermediate/Secondary)	Fall	January 15
Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education	Spring	December 1
Bachelor of Music Education - first and second degree	Fall	January 15
Bachelor of Special Education	Fall	January 15
Native & Northern Teacher Education Programs	ongoing intake	
Bachelor of Education (Post-Secondary) - first and second degree - and Diploma in Post-Secondary Education	Fall Winter Spring	June 15 October 1 January 15
Diploma in Adult Teacher Education	Fall Winter Spring	June 15 October 1 January 15

3. Admission to programs within the Faculty of Education is determined by a Selections Committee and is based on the criteria listed for each degree/diploma program. Applicants who are completing courses at this or another institution and for whom final and complete transcripts are not yet available may be granted provisional acceptance to the program to which they are applying pending the receipt of final transcripts. This provisional acceptance will remain valid until final transcripts are received. Deadline for receipt of final transcripts is June 15th. Provisionally accepted applicants may be granted a final acceptance upon review of the final transcript by the Selections Committee. The Faculty reserves the right to deny admission to a candidate who, in the opinion of the Selections Committee, is deemed unsuitable for admission to a program.
4. Students who have been admitted to a program in the Faculty of Education requiring a teaching internship are advised that they may be assigned to any Provincial school district and are responsible for all travel and accommodation costs associated therewith.
5. Students who have been admitted to a particular degree program offered by the Faculty of Education and who wish to change to another degree program within the Faculty must submit a new Faculty application form to the Office of the Registrar that will be considered in competition with all other students.
6. In special circumstances, the Committee on Undergraduate Studies, on recommendation from the Admissions Committee may, at its discretion, consider an applicant or group of applicants as an exception to the requirements.
7. Students who decline an offer of admission to the Faculty of Education, withdraw from the program, or who do not register for courses during the academic year in which admission is granted must, if they wish to be subsequently considered for admission, submit a new application in competition with other applicants.
8. An unsuccessful applicant has the right to appeal against the decision of the Admissions Committee not to offer him/her a place, if it is felt by the applicant that the decision was reached on grounds other than those specified in the admission requirements listed in the Faculty of Education section of the Calendar. The appeal should be made in writing within twenty-one days of the notification of the decision and should be directed to the Dean of Education. The letter should state clearly and fully the grounds for the appeal. If the Dean of Education, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated. Normally, appeals will only be considered in the case of procedural error and/or receipt of new information that is relevant to the application. Students are advised to refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations** section of the University Calendar.

2.7 Regulations for Readmission and Advancement

These regulations apply to all programs except the Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program, Bachelor of Education (Primary/Elementary) as a Second Degree, Bachelor of Education (Intermediate/Secondary), and the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education which have separate readmission and advancement regulations.

1. a. Following admission to a program of the Faculty of Education, all full-time students must obtain a semester average of at least 65% in order to remain in clear standing in the Faculty.
b. These regulations will be applied to part-time students only after they have completed 12 consecutive credit hours on a part-time basis.
2. Students who fail to obtain a semester average of 65% but who are eligible for readmission under **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)** will be placed on probation in the Faculty. Probationary students who fail to obtain a 65% average during the next semester in which they complete courses will be required to withdraw from the Faculty.
3. Students completing the Bachelor of Education (Primary/Elementary), Bachelor of Music Conjoint with Bachelor of Music Education, or the Bachelor of Music Education as a Second Degree who attain a grade of FAL (fail) in their internship will either:
 - a. be required to withdraw from the program; or
 - b. with the recommendation of the Office of Undergraduate Student Services, Faculty of Education, repeat the internship in another school setting.
4. Students who have been required to withdraw from the Faculty of Education may, after a lapse of at least two semesters, apply for readmission to the Faculty. Students who are readmitted under this Clause will be considered probationary and must meet requirements stated in Clause 2. above.
5. Students who are required to withdraw from the University under **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)** will be required to withdraw from the Faculty of Education.
6. Students who have been required to withdraw from the Faculty on two occasions will be ineligible for future readmission.
7. Notwithstanding Clauses 1. through 4., the Committee on Undergraduate Studies on recommendation from the Admissions Committee reserves the right to require students to withdraw from the Faculty at any time if, in the opinion of the Committee, they are deemed unsuitable for continued attendance in the programs.
8. Students who have been required to withdraw from the Faculty may register only in those Education courses listed as applicable for non-Education students.
9. In exceptional circumstances, the Committee on Undergraduate Studies may waive the Readmission and Advancement regulations for the Faculty of Education as stated above.

2.8 Regulations for Readmission and Advancement for the Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program, Bachelor of Education as a Second Degree, Bachelor of Education (Intermediate/Secondary), and Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education

1. Students must successfully complete all courses, attain an overall semester average of at least 65%, and a grade of PAS (pass) in the internship(s). Students failing to meet any of the above criteria will be required to withdraw from the program.
2. Notwithstanding Clause 1., the Committee on Undergraduate Studies, on recommendation from the Admissions Committee, reserves the right to require students to withdraw from the Faculty at any time if, in the opinion of the Committee, they are deemed unsuitable for continued attendance in the programs.
3. In exceptional circumstances, waiver of these regulations may be granted by the Committee on Undergraduate Studies, Faculty of Education, on advice of the Office of Undergraduate Student Services.

2.9 Registration in Education Courses (Non-Education Students)

Registration in Education courses is normally restricted to those students who have been admitted to a degree or diploma program in the Faculty of Education. Students in first year or students in other Faculties or Schools who have completed not fewer than 24 credit hours may register for the following courses in Education without acceptance to a program: 2040, 2800, 2801, 2803, 3210, 3211, 3565, 3570, 3571, and 3660.

Such students are advised to consult degree or diploma regulations to determine which, if any, of the above courses can be applied to their program.

2.10 Registration in Education Courses for Teacher Certification Upgrading and the Post-Secondary Instructors Certificate (as issued by the Department of Education, Government of Newfoundland and Labrador)

Students having completed a degree program in Education, or equivalent, who wish to register in Education courses for certification upgrading purposes and students requiring Education courses for the Post-Secondary Instructors Certificate should contact the Office of Undergraduate Student Services at least one month in advance of registration for permission and procedure.

2.11 Bachelor of Education (Primary/Elementary)

Important Notice

May 2013 will be the final date for admission to the Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery. Students admitted or readmitted to the Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery and who intend to complete the requirements of the degree, as in effect at the time of their acceptance, must complete their program no later than August 31, 2014.

The Bachelor of Education (Primary/Elementary) degree program is designed to prepare teachers for kindergarten through grade six. The program is available both as a First Degree and as a Second Degree.

2.11.1 Bachelor of Education (Primary/Elementary) as a First Degree

The Bachelor of Education (Primary/Elementary) as a First Degree is a 150 credit hour program. All students will attend full time during the Professional Year which involves both a specific set of courses and a field experience. The Professional Year is followed by a one semester teaching internship and a subsequent semester of study intended to allow students to build on strengths and remedy weaknesses that may have become apparent during the internship. Basic computer keyboarding skills will be expected during the first semester of this program.

The Bachelor of Education (Primary/Elementary) as a First Degree is offered in two delivery formats:

1. **Bachelor of Education (Primary/Elementary) as a First Degree Integrated Delivery Program**
2. **Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program**

Refer to the **Application Deadline Dates** table for application deadlines.

2.11.1.1 Admission

1. Applications for admission for both Integrated and Consecutive Delivery are considered together. Consideration will be given to the courses for which students are registered at the time of assessment of applications. Applicants for Integrated Delivery who have completed all requirements for admission by the end of the Spring semester of the year that admission is being sought will be considered as time and resources permit.
2. To be considered for admission, students must have successfully completed 60 credit hours as outlined in Clauses a. - h. below with a cumulative average of at least 65% or an average of at least 65% on the last attempted 30 credit hours. Students applying to the Consecutive delivery option must have completed a total of 78 credit hours including a completed Focus Area. The 60 credit hours are:
 - a. twelve credit hours in English including at least 6 credit hours at the 2000 level or above - ESL courses cannot be used to satisfy this requirement;
 - b. six credit hours in Mathematics or 3 credit hours in Calculus;
 - c. six credit hours in Psychology;
 - d. Science 1150 and 1151; or 9 credit hours from 3 separate Science areas. The science areas are: Biochemistry, Biology, Chemistry, Earth Science, Environmental Science, or Physics; or a Focus Area in Science;
 - e. six credit hours chosen in any combination from Anthropology, Archaeology, Economics, Folklore, Geography, History, Linguistics, Political Science, Religious Studies, Sociology;
 - f. six credit hours in French (recommended) or 6 credit hours in a single language other than English, or demonstration of equivalent competency in a second language;
 - g. fifteen credit hours as part of a Focus Area; and
 - h. additional credit hours from areas other than Education.
3. In assessing applications to the Bachelor of Education (Primary/Elementary) as a First Degree program, consideration will be given to student's:
 - a. overall academic performance; and
 - b. personal statement and references as outlined on the application to the Faculty.

2.11.1.2 Regulations for the Degree of Bachelor of Education (Primary/Elementary) as a First Degree

1. Candidates for the degree of Bachelor of Education (Primary/Elementary) as a First Degree will be required to complete a minimum of 150 credit hours in accordance with **Table 1** or **Table 2** below. Including the courses required for admission and completion of the focus area, a minimum of 75 of these credit hours will be in non-Education courses. Students:
 - a. will normally follow the appropriate Program Plan as outlined below;
 - b. must enrol full-time during the Professional Year; and

c. may enrol in the Internship only after successful completion of the Professional Year.

Students will normally complete the Bachelor of Education (Primary/Elementary) as a First Degree in the academic terms, sequence and course load as set out in either **Table 1, Bachelor of Education (Primary/Elementary) as a First Degree Integrated Delivery Program Plan** or in **Table 2, Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program Plan**.

2.11.1.3 Bachelor of Education (Primary/Elementary) as a First Degree Integrated Delivery Program Plan

To complete the 150 credit hour Bachelor of Education (Primary/Elementary) Integrated Delivery Program, students must have 75 credit hours from areas other than Education, including a completed focus area, plus the 75 credit hours in Education specified in **Table 1 Bachelor of Education (Primary/Elementary) as a First Degree Integrated Delivery Program Plan**.

Table 1 Bachelor of Education (Primary/Elementary) as a First Degree Integrated Delivery Program Plan

Education Semester One - Fall	Education Semester Two - Winter	Education Semester Three - Fall (Professional Year Semester One)
Education 3618 Education 3951 HKR 2001 6 credit hours in non-Education Electives	Education 3484 Education 3619 Education 3952 6 credit hours in non-Education Electives	Four Education courses from 3120, 3131, 3273, 3312, 3322, 3940, 3962 (to be determined by the Office of Undergraduate Student Services) One of Education 2050, 2194, 2515*, 3050, 4205, 4240 or 4242 (*Required for students completing a music focus area) Non-credit Field Experience (five days)
Education Semester Four - Winter (Professional Year Semester Two)	Education Semester Five - Fall	Education Semester Six* - Winter
Four additional Education courses from 3120, 3131, 3273, 3322, 3543, 3940, 3962 (to be determined by the Office of Undergraduate Student Services) One of Education 2050, 2194, 2515*, 3050, 4205, 4240 or 4242 (*Required for students completing a music focus area) Non-credit Field Experience (five days)	Education 401X	Education 4240 (or an Education elective if Education 4240 has been completed previously) Education 4362 Education 4383 Education 4425 3 credit hours in an Education Elective *Students may have the option of completing Education Semester Six courses in the Spring semester following the Professional Year.

2.11.1.4 French Immersion Option

The French Immersion Option is only available in the Bachelor of Education (Primary/Elementary) Integrated Delivery Program.

In addition to meeting the Admission Requirements for the Bachelor of Education (Primary/Elementary) Degree Program, students applying for this option must have French as a Focus Area. Admitted students will spend the two semesters of the Professional year in a French milieu.

These students must meet all requirements for the Bachelor of Education (Primary/Elementary) Integrated Delivery Program except as modified in Clauses 1.-3. below:

Students must successfully complete:

- prior to the beginning of the Professional Year
 - at least 27 credit hours in French, including French 3100 and 3101,
 - either high school French Immersion including Francais 3202 or at least four weeks of study in a French milieu,
- the Professional Year in a French milieu, including the equivalent of Education 4155 and Education 3050, and
- the internship in a French Immersion setting.

Students who are interested in the French Immersion Option should contact the Office of Undergraduate Student Services, Faculty of Education, at their earliest opportunity.

2.11.1.5 Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program Plan

Important Notice

May 2013 will be the final date for admission to the Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery. Students admitted or readmitted to the Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery and who intend to complete the requirements of the degree, as in effect at the time of their acceptance, must complete their program no later than August 31, 2014.

To complete the 150 credit hour Bachelor of Education (Primary/Elementary) Consecutive Delivery Program students must have at least 75 credit hours from areas other than Education and the 69 credit hours in Education specified in **Table 2 Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program Plan**. The additional 6 credit hours required for the degree may be either Education or non Education credits.

Table 2 Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program Plan

Professional Year Semester I - Spring	Professional Year Semester II - Fall	Semester III - Winter	Semester IV - Spring
Education 3120 Education 3273 Education 3312 Education 3618 Education 3951 Education 3962	Education 3322 Education 3484 Education 3543 Education 3619 Education 3940 Education 4240 Non-credit Field Experience (ten days)	Education 401X Education 4425	Education 3131 Education 3952 Education 4362 Education 4383 3 credit hours in an Education Elective HKR 2001

Note: Due to the nature of the French Immersion option of the primary/elementary program, the Consecutive Delivery Program is not available to applicants preparing to be French Immersion teachers.

2.11.1.6 Focus Areas

English (24 credit hours):

1. Six credit hours at the 1000 level
2. English 2390 or 3395
3. Three credit hours chosen from English 2000, 2001, 2005-2007, 3200, 3201, 3205
4. Three credit hours chosen from English 2002-2004, 2010 or 2020, 2350, 2351
5. Six credit hours chosen from English 2146, 2150, 2151, 2155, 2156, 2160, 3145, 3147-3149, 3152, 3155-3158
6. Three additional credit hours in English at the 2000 level or above

Folklore (24 credit hours):

1. Folklore 1000 or 2000
2. Folklore 2100, 2300, 2401, 2500
3. Three credit hours chosen from Folklore 3450 or 3930
4. Six credit hours in Folklore chosen from the 3000 or 4000 level

French (21 credit hours):

A maximum of 6 credit hours at the 1000 level

1. French 2100 or equivalent
2. French 2101 or equivalent
3. French 2601 or French 2602 or equivalent
4. French 3100 or French 3101 or equivalent
5. At least four weeks at an approved francophone institution in a French-speaking area or have acquired equivalent work experience in a francophone environment.
6. Additional credit hours in French to bring the total to 21.

It is recommended that students complete at least one of French 2900, 3650, 3651, 3652, 3653, 3654

Note: Students may wish to select the French Immersion option listed at the end of Program Plan: Bachelor of Education (Primary/Elementary).

Geography (18 credit hours):

1. Geography 1050, 2001, 2102, 2195, 2302, and 2425; or
2. Geography 1000 and 1001, or 1010 and 1011, and 12 credit hours in courses chosen from Geography 2001, 2102, 2195, 2302, 2425

History (18 credit hours):

1. Three credit hours in History at the 1000 level
2. Nine credit hours in History at the 2000 level
3. Six credit hours in Newfoundland and Labrador History at the 3000 level

Linguistics (18 credit hours):

1. Linguistics 1100 or 2100
2. Linguistics 1103 or 2103
3. Linguistics 1104 or 2104
4. Linguistics 2210
5. Six credit hours chosen from Linguistics 3000, 3100, 3104, 3105, 3150, 3155, 3201, 3210, 3212, 3500, 3850

Mathematics (18 credit hours including):

No more than 6 credit hours at the 1000 level and at least 3 credit hours at the 3000 level.

Music (18 credit hours):

1. Music 1120
2. Three credit hours chosen from Music 2011, 2012, 2013, 2014
3. Three credit hours chosen from Music 2021, 2022, 2023, 2611, 2612, 2613, 2614, 2619 (admission to 2612, 2613 and 2619 is by audition only)
4. Six credit hours chosen from Music 3014, 3015, 3016, 3017, 3018, 3019, 4040
5. Three additional credit hours from the courses in 2. or 4. above.

Physical Education (HKR) (18 credit hours):

1. Human Kinetics and Recreation 1000, 2210, 2300
2. Nine credit hours chosen from Human Kinetics and Recreation 2002, 2310 or 2311, 2320, 2600, 2601, 3330, 3340, 3400, 3490

Religious Studies (18 credit hours including):

1. Religious Studies 1000
2. Three credit hours from Religious Studies 2013, 2130, 2140, 2330, 2340
3. Three credit hours from Religious Studies 2400, 2410, 2420, 2425, 2430
4. Three credit hours from Religious Studies 2350, 2610, 2810, 2811, 2812, 2820, 2830
5. Six credit hours in Religious Studies at the 3000 level or above

Science (18 credit hours including):

At least 6 credit hours in each of two subject areas selected from Biochemistry, Biology, Chemistry, Earth Science, Environmental Science, or Physics.

Theatre Arts (18 credit hours)

For information on the Theatre Arts Focus Area contact the Undergraduate Admissions Office, Faculty of Education.

Visual Arts (18 credit hours)

Courses in Art History may be used to satisfy this requirement in whole or in part. For information on the Visual Arts Focus Area contact the Undergraduate Admissions Office, Faculty of Education.

2.11.2 Bachelor of Education (Primary/Elementary) as a Second Degree

The Bachelor of Education (Primary/Elementary) as a Second Degree is a 72 credit hour program. It is intended for candidates who have completed an appropriate Bachelor's degree.

2.11.2.1 Admission

1. Refer to the **Application Deadline Dates** table for application deadlines. Consideration will be given to the courses for which students are registered at the time of assessment of applications. Students attending institutions other than Memorial University of Newfoundland must supply transcripts indicating Fall semester grades by February 1.
2. To be considered for admission to the Bachelor of Education (Primary/Elementary) as a Second Degree program, individuals must have:
 - a. been awarded a Bachelor's Degree, or approved (prior to program startup) for the award of a Bachelor's Degree from a university recognized by Memorial University of Newfoundland;
 - b. achieved a cumulative average of at least 65% or an average of at least 65% on the last attempted 30 credit hours;
 - c. completed a minimum of:
 - i. six credit hours in English - ESL courses cannot be used to satisfy this requirement;
 - ii. six credit hours in Mathematics or 3 credit hours in Calculus;
 - iii. six credit hours in Psychology;
 - iv. Science 1150 and 1151 or 6 credit hours in science in any combination to be chosen from: Biochemistry, Biology, Chemistry, Earth Science, Environmental Science and Physics;
 - v. six credit hours in any combination to be chosen from: Anthropology, Archaeology, Economics, Folklore, Geography, History, Linguistics, Political Science, Religious Studies and Sociology;
 - vi. six credit hours in French (recommended) or 6 credit hours in a single language other than English, or demonstration of equivalent competency in a second language; and
 - vii. the equivalent of a completed focus area as per the Faculty of Education **Focus Areas** or the completion of a major or minor within the initial Bachelor's degree program in a subject area classified as a focus area.

Notes: 1. *It is recommended that students have 9 credit hours in science.*
2. *Applicants with French as a focus area must also have completed at least 4 weeks at an approved francophone institution in a French-speaking area or have acquired equivalent work experience in a Francophone environment.*
3. In assessing applications to the Bachelor of Education (Primary/Elementary) as a Second Degree program, consideration will be given to the following:
 - a. overall academic performance; and
 - b. personal statement and references as outlined on the application to the Faculty.

2.11.2.2 Regulations for the Degree of Bachelor of Education (Primary/Elementary) as a Second Degree

1. In addition to meeting these regulations, students must also meet **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Second Degree**.
2. To obtain the Bachelor of Education (Primary/Elementary) as a Second Degree, students will be required to complete a minimum of 72 credit hours. The 72 credit hours are the same as those outlined in **Table 2 Bachelor of Education (Primary/Elementary) as a First Degree Consecutive Delivery Program Plan**.
3. Students will normally attend full-time and complete the Bachelor of Education (Primary/Elementary) Second Degree program in the academic terms, sequence, and course load as set out in Table 2.

2.11.3 Waiver Guidelines for Education 401X

1. Education 401X may, in special circumstances and upon individual request, be waived by the Office of Undergraduate Student Services in accordance with the guidelines listed below. Students requesting waiver should apply in writing and submit evidence of the following:
 - a. Permanent certification and tenure.
 - b. A minimum of five years teaching experience (or equivalent) in an environment appropriate to the degree sought.
 - c. Recommendation from an individual in an administrative position i.e. School Principal or Superintendent, attesting to the satisfactory quality of the teaching experience.
2. Students whose requests for waiver of the internship are approved must substitute in its place 15 appropriate credit hours in Education. These replacement credit hours will be determined by the Office of the Undergraduate Student Services on an individual basis and must be approved by the Committee on Undergraduate Studies.

2.12 Bachelor of Education (Intermediate/Secondary)

The Bachelor of Education (Intermediate/Secondary) is a second degree program designed to prepare teachers of grades 7-12. The program is offered in a three semester (12 month), full-time format, and commences in the Fall semester of each year.

2.12.1 Admission

- Refer to the **Application Deadline Dates** table for application deadlines. Consideration will be given to the courses for which students are registered at the time of application. Applicants who will have completed all requirements for admission by the end of the Spring semester of the year that admission is being sought will be considered as time and resources permit. Students attending institutions other than Memorial University of Newfoundland must supply transcripts indicating Winter semester grades no later than June 15.
- To be considered for admission to the Bachelor of Education (Intermediate/Secondary) Degree Program, individuals must have:
 - been awarded a Bachelor's Degree from a university recognized by Memorial University of Newfoundland;
 - completed 36 credit hours in a subject listed under **Academic Disciplines** in Clause 3. below (Religious Studies, Business Studies and Newfoundland and Labrador Studies cannot be used to satisfy the 36 credit hour requirement. Effective with admission for Fall 2014, in addition to the 36 credit hours, those with an academic discipline of French are required to have completed at least four weeks at an approved Francophone institution in a French speaking area or have acquired equivalent work experience in a Francophone environment), and
 - completed 24 credit hours in a subject listed under **Academic Disciplines** in Clause 3. below but different from that in b i. (Effective with admission for Fall 2014, in addition to the 24 credit hours, those with an academic discipline of French are required to have completed at least four weeks at an approved Francophone institution in a French speaking area or have acquired equivalent work experience in a Francophone environment);
 - achieved an overall average of at least 65% in each of the sets of courses in b. i. and b. ii.
- Academic Disciplines are deemed to be the disciplines on the following list. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed **Academic Disciplines** will be acceptable.

Academic Disciplines

Biochemistry**	Economics	History	Political Science
Biology**	English	Mathematics (may include Statistics)	Religious Studies
Business Studies***	Environmental Science**	Newfoundland and Labrador Studies	Theatre Arts
Canadian Studies	French	Physical Education*	Visual Arts
Chemistry**	General Science	Physics**	
Earth Sciences**	Geography		

* In order to be considered for admission within this Academic Discipline, students must have completed courses in the following areas: Human Anatomy, Human Physiology, Motor Learning, Biomechanics, Primary/Elementary Physical Education Curriculum and Teaching, Issues and Trends in Physical Education and a minimum of 18 credit hours in Physical Education activities.

**Students who use General Science as an Academic Discipline may use courses from these separate science disciplines in any combination, but must complete a minimum of 12 credit hours in each separate science discipline used.

***Students who use Business Studies as an academic discipline must have at least a minor in Business Administration.

Notes: 1. When calculating averages in the first and second teachable areas, no more than two 1000-level courses in each of the first and second teachable areas will normally be used.

2. A limited number of program spaces are allocated to each discipline. Students who are admitted with a particular Academic Discipline and who wish to change to a different Academic Discipline must obtain permission of the Office of Undergraduate Student Services. Such changes may not be possible in particular areas.

3. Applicants are advised that admission to the program on the basis of academic disciplines is dependent on sufficient numbers of students to warrant the offering of applicable methodology courses in those disciplines in any given year.

- Candidates who are registered in their final semester of their first Bachelor's Degree program during the Winter semester must have satisfied the academic requirements set out in Clause 2. above upon completion of their first degree program.
- In assessing applications to the Bachelor of Education (Intermediate/Secondary) Program, consideration will be given to the following:
 - average in each of the two academic disciplines;
 - overall academic performance; and
 - personal statement and references as outlined on the application to the Faculty.
- Because of the structured, sequential nature of this program, students must attend full-time. Students who drop any course which is part of the program will be dropped from the entire program.
- Students who have been admitted to the program but choose not to attend in the Fall semester of their year of admission will lose their admission status. Such a student may reapply for admission at a later date, and must submit a new application which will be considered in competition with those of all other applicants.

2.12.2 Regulations for the Degree of Bachelor of Education (Intermediate/Secondary)

- A candidate for the degree of Bachelor of Education (Intermediate/Secondary) shall complete 51 credit hours in the academic semesters, sequence and course load specified in the **Bachelor of Education (Intermediate/Secondary) Program Plan** below. Candidates must also have complied with the **Regulations for Readmission and Advancement for this program**.
- The 51 credit hours shall include:
 - Education 4005, 4240, 4242, 4260, 4381, 4390, 4427, 4950 and 5000.
 - two of the following: Education 4120, 4121, 4142, 4154, 4161, 4174, 4175, 4180, 4181, 4190, 4203. These methodology courses must be chosen to match the academic disciplines under which the student was admitted. Those whose discipline is Geography are required to complete either Education 4180 or 4174. Those whose area is Social Studies (academic disciplines of Business Studies, Canadian Studies, Economics, History, Newfoundland and Labrador Studies, and Political Science) are required to complete Education 4180. Students whose first and second academic disciplines are in Social Studies are required to complete Education 4180 and 4181. Students whose first and second academic disciplines are in sciences (Biochemistry, Biology, Chemistry, Earth Sciences, Environmental Sciences, General Science, Physics) are required to complete Education 4174 and 4175.

- c. Education 406T and 407T (for a total of 15 credit hours internship)
 d. Education 4350 or 3 credit hours in Institutes in Intermediate and Secondary Education or equivalent. A minimum of two institutes is required.

2.12.3 Bachelor of Education (Intermediate/Secondary) Program Plan

Table 3 Bachelor of Education (Intermediate/Secondary) Program Plan

Semester 1 - Fall (18 Credit Hours)	Semester 2 - Winter (15 Credit Hours)	Semester 3 - Spring* (18 Credit Hours)
Education 4005 Education 406T Education 4240 Education 4260 Two methodology courses from Clause 2b. Education 5000 (non-credit)	Education 407T Education 4350 or 3 credit hours in Institutes in Intermediate and Secondary Education Education 5000 (non-credit)	Education 4242 Education 4381 Education 4390 Education 4427 Education 4950 Education 5000 (3 credit hours) *courses may be offered in Spring, Intersession and/or Summer Session

Note: The Fall and Winter semesters of the Bachelor of Education (Intermediate/Secondary) Program will follow a schedule that falls outside the normal teaching semester. Consult the **University Diary** for applicable dates.

2.13 Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education

The Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education is a program designed to prepare both Intermediate/Secondary and Technology Education teachers. The program is offered in a four semester (16 month), full-time format and commences in the Spring of each year. Students in the program will complete courses that address the development of basic skills and competencies in a variety of technological areas and how to apply them through design and problem solving processes in a school classroom/laboratory setting.

2.13.1 Admission

- Consideration will be given to the courses for which students are registered at the time of application. Refer to the **Application Deadline Dates** table for application deadlines. Students attending institutions other than Memorial University of Newfoundland must supply transcripts indicating Fall semester grades no later than February 1.
- To be considered for admission to the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education program individuals must have:
 - been awarded a Bachelors Degree from a university recognized by Memorial University of Newfoundland;
 - completed 36 credit hours in a subject listed under **Academic Disciplines** in clause 3. below. Effective with admission for Spring 2014, in addition to the 36 credit hours, those with an academic discipline of French are required to have completed at least four weeks at an approved Francophone institution in a French speaking area or have acquired equivalent work experience in a Francophone environment; and
 - achieved an overall average of at least 65% in the courses chosen to meet b. above.
- Academic Disciplines** are deemed to be the disciplines on the following list. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed **Academic Disciplines** will be acceptable.

Academic Disciplines

Biochemistry** Biology** Canadian Studies Chemistry** Earth Sciences**	Economics English Environmental Science** French General Science	Geography History Mathematics (may include Statistics) Physical Education*	Physics** Political Science Theatre Arts Visual Arts
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*In order to be considered for admission within this Academic Discipline, students must have completed courses in the following areas: Anatomy, Physiology, Motor Learning, Kinesiology, Evaluation and Testing in Physical Education, Primary/Elementary Physical Education Curriculum and Teaching, Issues and Trends in HPERS and a minimum of 6 activities.

** Students who use General Science as an Academic Discipline may use courses from these separate science disciplines in any combination, but must complete a minimum of 12 credit hours in each science discipline used.

Notes: 1. When calculating the average in the 36 credit hours required under clause 2. b. above, no more than two 1000-level courses will normally be used.

2. A limited number of program spaces are allocated to each discipline. Students who are admitted with a particular Academic Discipline and who wish to change to a different Academic Discipline must obtain permission of the Office of Undergraduate Student Services. Such changes may not be possible in particular areas.

3. Applicants are advised that admission to the program is dependent on sufficient numbers of students to warrant the offering of applicable methodology courses in those disciplines in any given year.

- Candidates who are registered in their final semester of their first Bachelor's Degree program during the Winter semester must have satisfied the academic requirements set out in Clause 2. above upon completion of their first degree program.
- In assessing applications to the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education Program, consideration will be given to the following:
 - average in courses in clause 2. b.;
 - overall academic performance; and
 - personal statement and references as outlined on the application to the Faculty.
- Because of the structured, sequential nature of this program, students must attend full-time. Students who drop any course which is part of the program will be dropped from the entire program.
- Students who have been admitted to the program but choose not to attend in the Spring semester of their year of admission will lose their admission status. Such a student may reapply for admission at a later date, and must submit a new application which will be

considered in competition with those of all other applicants.

2.13.2 Regulations for the Degree of Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education

- A candidate for the degree of Bachelor Education (Intermediate/ Secondary) Conjoint with the Diploma in Technology Education shall complete 69 credit hours in the academic semesters, sequence and course load specified in the **Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education Program Plan** below. The 69 credit hours shall include 30 credit hours in intermediate and secondary education, 24 credit hours in technology education and 15 credit hours of internship. Candidates must also have complied with the **Regulations for Readmission and Advancement** for this program.
- The 69 credit hours shall include:
 - 30 credit hours in intermediate and secondary education:
 - Education 4005, 4240, 4242, 4260, 4381, 4390, 4427, 4950 and 5000.
 - One of the following: Education 4120, 4121, 4142, 4154, 4161, 4174, 4180, 4190. This methodology course must be chosen to match the academic discipline under which the student was admitted. Those whose discipline is Geography are required to complete either Education 4180 or 4174. Those whose area is Social Studies (academic disciplines of Canadian Studies, Economics, History, and Political Science) are required to complete Education 4180.
 - 24 credit hours in Technology Education: Education 2711, 2750, 2752, 3750, 3751, 4750, 4752 and 4753.
 - Education 406T and 407T (for a total of 15 credit hours internship).

2.13.3 Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education Program Plan

Semester 1 - Spring (18 Credit Hours)	Semester 2 - Fall (18 Credit Hours)	Semester 3 - Winter (15 Credit Hours)	Semester 4 - Spring* (18 Credit Hours)
Education 2711 Education 2750 Education 2752 Education 3750 Education 3751 Education 4427	Education 4005 Education 406T Education 4240 Education 4260 One methodology course in accordance with clause 2b. One of: Education 4750, 4752, 4753 (to be determined by the Office of Undergraduate Student Services) Education 5000 (non-credit)	Education 407T a second course (to be determined by the Office of Undergraduate Student Services) chosen from: Education 4750, 4752, 4753 Education 5000 (non-credit)	Education 4242 Education 4381 Education 4390 a third course from: Education 4750, 4752, 4753 Education 4950 Education 5000 (3 credit hours) *Courses may be offered in the Spring, Intersession and/or Summer Session.

Note: With the exception of the final semester, the Bachelor of Education (Intermediate/ Secondary) Conjoint with the Diploma in Technology Education Program will follow a schedule that falls outside the normal teaching semester. Consult the **University Diary** for applicable dates.

2.14 Bachelor of Music Education

The Bachelor of Music Education Program is designed to prepare music teachers in all facets of school music education: foundations of music education; primary/elementary, intermediate/secondary classroom music; and choral and instrumental music education. The program consists of 30 credit hours of course work in music education and general foundational education and a 15 credit hour teaching internship. The program is delivered in two formats: Bachelor of Music Conjoint with Bachelor of Music Education and Bachelor of Music Education as a Second Degree.

Refer to the **Application Deadline Dates** table for application deadlines.

2.15 Bachelor of Music Conjoint with Bachelor of Music Education

2.15.1 Admission

- Applications for admission are considered once a year normally to the Fall semester. Consideration will be given to the Winter semester courses for which students are registered at the time of application.
- At the time of application, students must have been formally admitted to, and be in clear standing with, the School of Music.
- To be considered for admission, students must have successfully completed a minimum of 45 credit hours with either a cumulative average of at least 65% or an average of at least 65% on their last attempted 30 credit hours.

Within the 45 credit hours, students must have completed the following:

- at least 6 credit hours in English and/or research/writing;
 - at least 3 credit hours from the following: Music 3221, 3222, 3231, 3232, 3233, 3241, 3242, 3261, 3281, 3282;
 - at least 12 credit hours in Music, in addition to the 3 credit hours used to satisfy Clause 3.b. above.
- In assessing applications, consideration will be given to the following:
 - average in the courses required for admission in Clause 3. above;
 - overall academic performance; and
 - personal statement and references as outlined on the application to the Faculty. One reference must be from a faculty member of the School of Music.

2.16 Regulations for the Conjoint Degrees of Bachelor of Music and Bachelor of Music Education

- A candidate for the Conjoint Degrees of Bachelor of Music and Bachelor of Music Education shall be required to complete a minimum of 159 credit hours in accordance with the Bachelor of Music degree regulations for the Bachelor of Music Conjoint with

Bachelor of Music Education and Clause 2. below:

2. A candidate shall complete the following 45 credit hours in Education:
 - a. Education 3618 or 4260
 - b. One of Education 4362, 4381, 4383
 - c. Education 2500, 2515, 2520, 3920 (including a 2 hour twice weekly laboratory component), 3925, 4240, and 4830
 - d. Education 403X (15 credit hour Internship)
 - e. Three other credit hours in Education other than Music Education. It is recommended that these 3 credit hours be used toward the acquisition of instructional content in a second teachable area.

2.17 Bachelor of Music Education as a Second Degree

2.17.1 Admission

1. Applications for admission are considered once a year normally to the Fall semester. Consideration will be given to the Winter semester courses for which students are registered at the time of application.
2. A candidate who has been awarded a Bachelor's degree in Music (or equivalent) from a recognized post-secondary institution may be admitted to the program leading to the degree of Bachelor of Music Education provided that the pattern of courses for the first degree is acceptable to the Selections Committee of the Faculty of Education. This pattern normally includes courses or equivalent experiences in conducting and instrumental techniques (brass, woodwinds, strings and percussion).

2.18 Regulations for the Bachelor of Music Education as a Second Degree

1. The degree of Bachelor of Music Education may be awarded upon the successful completion of at least 30 additional credit hours in accordance with clause 2. below.
2. A candidate shall complete the following 45 credit hours in Education:
 - a. Education 3618 or 4260
 - b. One of Education 4362, 4381, 4383
 - c. Education 2500, 2515, 2520, 3920 (including a 2 hour twice weekly laboratory component), 3925, 4240, and 4830
 - d. Education 403X (15 credit hour Internship)
 - e. Three other credit hours in Education other than Music Education. It is recommended that these 3 credit hours be used toward the acquisition of instructional content in a second teachable area.

2.19 Bachelor of Education (Native and Northern)

The Bachelor of Education (Native and Northern) is a teacher education program designed for Native students in Labrador who intend to pursue a teaching career in the communities of northern Labrador. It would be of particular interest to students who wish to continue their studies beyond the Diploma in Native and Northern Education.

2.19.1 Regulations for Admission/Readmission and Advancement to the Bachelor of Education (Native and Northern)

1. Students who wish to enter the program must submit an application to the Office of Undergraduate Student Services, Faculty of Education.
2. Applicants to the Bachelor of Education (Native and Northern) must complete the general application form for admission to the University and the application form for admission to the Faculty of Education, Native and Northern Program.
3. Normally, to be considered for admission, a student must have completed a minimum of 15 credit hours with an average of at least 55% in those courses and be in clear standing.

Note: Students may be considered for conditional admission to the program upon admission to the University. Students admitted conditionally will be admitted in clear standing after successful completion of 15 credit hours with an average of not less than 55% percent.
4. Students who have completed more than 15 credit hours prior to admission to the program will be permitted to apply those credit hours, where appropriate, towards the Bachelor of Education (Native and Northern) provided an average of at least 60% has been obtained in all courses beyond the first 15 credit hours.
5. Students who have been admitted to the Bachelor of Education (Native and Northern) will normally be governed by Regulations 2. and 4. - 9. of the Regulations for Readmission and Advancement of the Faculty of Education. For this program only, advancement regulations will be applied upon the completion of each 15 credit hour segment throughout the duration of the program and will be assessed on the basis of the average obtained on those 15 credit hours.
6. Students who have not met the requirements for direct entry from high school, but are eligible for entry on other criteria, will be assessed for literacy in English through procedures in accordance with University regulations. Where necessary, courses may be provided to give students an opportunity to upgrade their literacy skills.
7. Within the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Residence Requirements**, candidates for the Bachelor of Education (Native and Northern) Degree shall have completed a minimum of 12 credit hours as full time students through attendance at classes for the duration of at least one semester on a campus of Memorial University of Newfoundland.

2.19.2 Regulations for Students on the Primary/Elementary Education Route

1. Candidates for the degree of Bachelor of Education (Native and Northern), Primary/Elementary route, shall be required to complete a minimum of 150 credit hours in accordance with the clauses 2. - 6. below and in consultation with the Office of Undergraduate Student Services.
2. The following academic credit hours are compulsory:
 - a. twelve credit hours in English
 - b. six credit hours in Math
 - c. six credit hours in Science

- d. six credit hours in Anthropology
- e. six credit hours in Linguistics (Inuktitut or Innu-aimun)
- f. three credit hours in Psychology]
- g. a concentration of four courses from each of two of the following subject areas: Aboriginal Studies, Art, Folklore*, French, Geography, History, Linguistics*, Mathematics, Music/Music Education, Physical Education, Religious Studies, Science, Theatre Arts*

Note: **Only one of these subject areas may be chosen.*

3. Candidates shall be required to complete a minimum of 60 credit hours in education, to be determined from an approved list, in consultation with the Office of Undergraduate Student Services. Included in those credit hours will be:
 - a. At least 3 credit hours in Education from each of the following areas:
Administration, Assessment of Primary/Elementary Children, Arts, Childhood Development, Children's Literature, Curriculum Development, Introductory Overview of Native Education, Language Arts, Mathematics, Native Education Issues and Trends, Reading, Science, Social Studies, Social Context of Education, Tests and Measurement, Teaching English as a Second Language, Teaching Strategies
 - b. Three credit hours from one of the following areas:
 - i. Teaching of Inuktitut or Innu-aimun for students who are proficient speakers of one of these languages
 - ii. Language and culture for students who are not proficient speakers of Inuktitut or Innu-aimun
 - c. Further credit hours in Education to complete the required total of 60 must be chosen from appropriate course offerings of the Faculty of Education, in consultation with the Office of Undergraduate Student Services.
4. Candidates who are proficient speakers of Inuktitut or Innu-aimun and who plan to teach one of these languages and/or plan to teach in one of these languages shall complete at least 3 credit hours from each of the following areas:
 - a. Language literacy skills
 - b. Language teaching skills
5. a. In addition to satisfying clause 3 above, all candidates shall be required to complete a 15 credit hour internship (Education 404X).
Note: *Candidates who have completed the Diploma in Native and Northern Education in Labrador and have successfully completed at least five years as a teaching assistant or certified teacher may apply to the Office of Native Education for a waiver of the internship requirement. In cases where waivers are granted, candidates will be required to complete 15 credit hours in Primary or Elementary Education to be determined from an approved list, in consultation with the Office of Undergraduate Student Services.*
 - b. Students may enrol in the Internship Program only after successful completion of the credit hours required in clauses 2. and 3. a. and b. above.
6. Further credit hours to complete the required total of 150 may be selected from any subject area outside of Education or from other credit hours in Education which are approved for the primary/elementary area.

2.19.3 Regulations for Students on the Secondary Education Route

1. Candidates for the degree of Bachelor of Education (Native and Northern), Secondary route, shall be required to complete a minimum of 150 credit hours in accordance with clauses 2. - 6. below and in consultation with the Office of Undergraduate Student Services.
2. The following academic credit hours are compulsory:
 - a. six credit hours in English
 - b. six credit hours in Anthropology
 - c. six credit hours in Linguistics (Inuktitut or Innu-aimun)
 - d. three credit hours in Psychology
 - e. Either
 - i. A concentration of eight courses in each of two of the following areas: Aboriginal Studies, Art, Biochemistry, Biology, Canadian Studies, Chemistry, Computer Science, Earth Sciences, Economics, English, Folklore*, French, Geography, History, Linguistics*, Mathematics (may include Statistics), Newfoundland Studies*, Physical Education, Physics, Political Science*, Religious Studies, and Theatre Arts*
Note: ** Only one of these subject areas may be chosen.*
 - Or
 - ii. A concentration of eight courses from one subject area in clause 2. e. i. above, and four courses from each of two of the other subject areas, other than the subject area chosen for the eight-course subject area concentration.
Courses from other disciplines deemed to be equivalent to courses in any of the above listed academic disciplines will be accepted.
3. Candidates shall be required to complete a minimum of 54 credit hours in Education, to be determined from an approved list, in consultation with the Office of Undergraduate Student Services. Included in those credit hours will be:
 - a. At least 3 credit hours in Education from each of the following areas:
Administration, Curriculum Development, Educational Psychology, Introductory Overview of Native Education, Native Education Issues and Trends, Reading, Social Context of Education, Student Evaluation, Teaching English as a Second Language, Teaching Strategies
 - b. Appropriate teaching methodology courses to correspond with concentrations in clause 2. e. to be determined from an approved list, in consultation with the Office of Undergraduate Student Services
 - c. Three credit hours from one of the following areas:
 - i. Teaching of Inuktitut or Innu-aimun for students who are proficient speakers of one of these languages
 - ii. Language and culture for students who are not proficient speakers of Inuktitut or Innu-aimun
 - d. Further credit hours in Education to complete the required total of 54 must be chosen from appropriate course offerings of the Faculty of Education, in consultation with the Office of Undergraduate Student Services.
4. Candidates who are fluent speakers of Inuktitut or Innu-aimun, and who plan to teach one of these languages and/or plan to teach in

one of these languages, shall complete at least 3 credit hours from each of the following areas:

- a. Language literacy skills
- b. Language teaching skills

Note: *These courses are cross listed as Education/Linguistics. Where candidates complete four courses under clause 4., in addition to the two linguistics courses required in clause 2. c., only one additional four course concentration shall be required under clause 2. e. ii.*

5. a. In addition to satisfying clause 3. above, all candidates shall be required to complete a 15 credit hour internship (Education 404X)

Note: *Candidates who have completed the Diploma in Native and Northern Education in Labrador and have successfully completed at least five years as a teaching assistant or certified teacher may apply to the Office of Native Education for a waiver of the internship requirement. In cases where waivers are granted, candidates will be required to complete 15 credit hours in Secondary Education to be determined from an approved list in consultation with the Office of Undergraduate Student Services.*

- b. Students may enrol in the Internship Program only after successful completion of the credit hours required in clauses 2. and 3. a., b., and c. above.

Note: *Students who do not register for courses during the academic year in which admission is granted will be dropped from the program and must, if they wish to be subsequently considered for admission, submit a new application which will be considered in competition with those of all other applicants.*

6. Further credit hours to complete the required total of 150 may be selected from any subject area outside of Education or from other credit hours in Education which are approved for the secondary area.

2.20 Bachelor of Special Education

This degree program is for the preparation of Special Education teachers and is available through part-time or full-time study. A limited number of courses are available through distance education. Candidates must comply with the University's **Regulations for a Second Degree** as outlined in the General Regulations section of the Calendar. Refer to the **Application Deadline Dates** table for deadlines.

There are four Education courses applicable to the Special Education degree program that may be completed prior to admission (following completion of an Education degree). They are Education 3040, 3640, 3660, 3941 (please see the **Course Descriptions** section for prerequisites).

2.20.1 Admission

1. Consideration will be given to the courses for which students are registered at the time of application. Provisional acceptance may be granted to students who will successfully complete all prerequisites prior to commencement of Program. A percentage of program spaces will be allocated to applicants having relevant teaching experience.
2. To be considered for admission candidates shall have a minimum of a 65% average in the last 60 attempted credit hours (not including the internship) and also meet the following requirements:
 - a. hold a degree in Primary and/or Elementary, Music Education, or Intermediate/Secondary Education from Memorial University of Newfoundland or another Education degree deemed appropriate by the Faculty of Education, AND have credit for one of Education 4240 or 4242 or the former Education 3220 or 3230 (or equivalent). Intermediate/Secondary graduates must also have credit for Education 4350; Music Education graduates must also have credit for both Education 3312 and 3543 or 4350.
 - b. have successfully completed a professional internship in education or have equivalent teaching experience prior to admission.

2.20.2 Regulations for the Degree of Bachelor of Special Education

To be eligible for the Degree in Special Education, a student must have completed:

1. The Memorial University of Newfoundland Bachelor of Education Degree Primary and/or Elementary, Music Education, or Intermediate/Secondary, or another Education degree deemed appropriate by the Faculty of Education, and
2. 36 credit hours as follows:
 - a. Required courses: Education 3600, 3610, 3620, 3630, 3650; and
 - b. 21 credit hours selected from the following elective offerings in Special Education: Education 3040, 3640, 3660, 3680, 3690, 3941, 4505, 4510, 4515, 4520, 4530, 4540, 4541, 4543.

2.20.3 Waiver Guidelines - Education 3650

Following completion of Education 3600, students who have at least two years experience as a Special Education teacher, and who provide written reports from their principal or other appropriate authority, certifying the quality of their experience, to the Office of Undergraduate Student Services, may be granted waiver of Education 3650 upon approval by the Faculty of Education. Candidates approved for the waiver must substitute in its place one 3 credit hour course in Special Education. Students may contact the Office of Undergraduate Student Services for additional information and application forms.

2.21 Bachelor of Education (Post-Secondary) and Diploma in Post-Secondary Education

2.21.1 Admission

1. To be considered for admission to the Post-Secondary Education Degree and Diploma programs, a student must meet, in addition to the general admission requirements of the University, special admission requirements as outlined below. Refer to the **Application Deadline Dates** table for application deadlines.
2. Occupational training as verified by one of:
 - a. a certificate of qualification as a journeyman for a designated trade;
 - b. a certificate or diploma from a technical or business school or college;
 - c. an appropriate undergraduate degree from a university;
 - d. satisfactory completion of a program equivalent to a., b. or c. above.
3. At least one year of work experience or equivalent in the occupational area in which training was obtained. This experience must be subsequent to the completion of or concurrent with the occupational training program.

Note: *Training and experience will be assessed and verified by the Selections Committee for Post-Secondary Education.*

2.22 Regulations for the Degree of Bachelor of Education (Post-Secondary) as a First Degree

1. A candidate for the Bachelor of Education (Post-Secondary) Degree will be required to complete the equivalent of at least 120 credit hours approved by the Office of Undergraduate Student Services. The 120 credit hours must include:
 - a. Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700
 - b. Twenty-one credit hours to be chosen from: Education 2800, 2803, 2806, 3440, 3710, 3720, 3730, 4710, 4730, 4760-4780.
 - c. Six credit hours in English.
 - d. Thirty non-Education credit hours patterned to strengthen the area of teaching specialization and/or provide the development of depth in a related field of study as approved by the Office of Undergraduate Student Services. Education 4760-4780 may be used to satisfy non-Education specialization course credit hour electives if not already used to satisfy clause 1.b. above.
 - e. Twelve additional credit hours from any subject areas outside of Education. Six of these 12 credit hours may be chosen from courses listed in clause 1.b. above if not already used to satisfy the requirements of clause 1. b.
2. Advanced standing to a maximum of 30 credit hours may be awarded for students possessing at least a combined total of six years of training and work experience in the occupational area in which training was obtained. Students who because of a deficiency of work experience are not eligible to receive the maximum of 30 credit hours advanced standing will be required to obtain further work experience and/or to complete additional university courses, either or both of which must be approved by the Admissions Sub-Committee for Post-Secondary Education.
3. At least half the credit hours required under clauses 1. a. and b. above must be completed at this University.

2.23 Regulations for the Degree of Bachelor of Education (Post-Secondary) as a Second Degree

1. Candidates must also comply with **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Second Degree**.
2. To obtain the Bachelor of Education (Post-Secondary) as a second degree a candidate must complete at least 36 credit hours in Education. The 36 credit hours must include:
 - a. Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700.
 - b. Fifteen credit hours of which 6 must be chosen from Education 2800, 2803, or 2806, and 9 must be chosen from 3440, 3710, 3720, 3730, 4710, 4730 or 4760-4780
3. At least 9 of the credit hours required under clause 2.a. must be completed at this University.

Note: *Work competence and experience related to occupational area is required for acceptance to this program as outlined in the Admission Requirements but no advanced standing will be granted.*

3 Diploma Regulations

3.1 Regulations for the Diploma in Post-Secondary Education

1. A candidate for the Diploma in Post-Secondary Education will be required to complete 60 credit hours as outlined below:
 - a. Twenty-one credit hours as follows: Education 2710, 2720, 2730, 2801, 3280, 3801, 4700.
 - b. Nine credit hours to be chosen from: Education 2803, 3440, 3710, 3720, 3730, 4710, 4730, 4760-4780.
2. Advanced standing to a maximum of 30 credit hours may be awarded for students possessing at least a combined total of six years of training and work experience in the occupational area in which training was obtained. Students who because of a deficiency of work experience are not eligible to receive the maximum of 30 credit hours advanced standing will be required to obtain further work experience and/or to complete additional University courses, either or both of which must be approved by the Admissions Sub-Committee for Post-Secondary Education.
3. At least 24 of the credit hours required under clause 1.a. and b. must be completed at this University.

Note: *The requirement of Education 4700 may be waived by the Office of Undergraduate Student Services in consultation with the post-secondary group.*

3.1.1 Waiver Guidelines - Education 4700

1. Students who have at least two years of Post-Secondary teaching experience, and who produce written reports from their former principal or other appropriate authority to the Office of Undergraduate Student Services certifying the quality of their experience, may be excused from Education 4700. Students who are excused from taking the student teaching course must substitute in its place Education 2900 or an appropriate course in Education designated Adult or Post-Secondary to make up the required total for the degree.

3.2 Regulations for the Diploma in Adult Teacher Education

Refer to the **Application Deadline Dates** table for application deadlines.

1. To be admitted to the Diploma Program in Adult Teacher Education, an applicant shall:
 - a. be admitted to this University,
 - b. satisfy at least one of the following:
 - i. have been admitted to the Faculty of Education,
 - ii. have been approved by the Office of Undergraduate Student Services.
2. To be eligible for the Diploma in Adult Teacher Education, a student shall complete a total of 30 credit hours in Education courses as follows: 2710, 2800, 2801, 2803, 2806, 2730 or 3430, 3440, 4450, two of 3280, 3210, 3801.
3. A maximum of 12 credit hours referred to in Clause 2. above and which have already been counted toward a degree or diploma may also be counted toward the Diploma in Adult Teacher Education.
4. At least 21 of the credit hours required for the Diploma in Adult Teacher Education must be completed at this University.
5. The requirement for a specific course, or courses, may in special circumstances, and upon individual request, be waived by the Committee on Undergraduate Studies. Such waivers shall not reduce the total number of credits required for the Diploma.

3.2.1 Waiver Guidelines of Education 4450

Students who have at least two years of experience teaching adults, and who produce written reports from their former principal or other appropriate authority to the Office of Undergraduate Student Services, certifying the quality of their experience may be excused from Education 4450. Students who are excused from taking the practicum must substitute in its place an appropriate course in Education to make up the required total for the diploma.

3.3 Regulations for the Diploma in Native and Northern Education in Labrador

- The Diploma in Native and Northern Education in Labrador (T.E.P.L.) is a teacher education program in Labrador with Options in Classroom Teacher or Core Language Teacher.
- Admission to the T.E.P.L. program requires a regular application for admission to Memorial University of Newfoundland and a special application for admission to the program. Application forms may be obtained from the Office of Native and Northern Teacher Education Programs, Faculty of Education, Memorial University of Newfoundland, St. John's, NL, A1B 3X8.
- A candidate for admission to this program must normally be a speaker of either Innu-aimun or Inuktitut and meet the General Admission Requirements of the University as outlined in the Calendar.
- To be eligible for the Diploma in Native and Northern Education, a candidate shall complete a total of 60 credit hours as follows:
The following 30 credit hours are required for both **Option A - Classroom Teacher** and **Option B - Core Language Teacher**.
Education 2022 or 2032, Education 2655, Education 3001, Education 3002, Education 3321, Education 4220 or 4230, English 1030, Linguistics 1530, Linguistics 1531, and Linguistics 2020 or 2030
- For **Option A - Classroom Teacher** - the following 30 credit hours are compulsory in addition to those in 4. Above.
 - Education 2182, Education 2194, Education 2200, Education 2350, Education 3007, Education 3140, Education 3281, Education 3961, Education 4330, Sociology/Anthropology 2220
 - Professional Seminars. This is a non-credit component which is compulsory and will include seminars dealing with topics such as: Classroom Management, Organizational Skills, Healing, Computer Training and Resource Development.
- For **Option B - Core Language Teacher** - the following 30 credit hours are compulsory in addition to those in 4. above.
 - Education 2035, Education 2036, Education 2037, Education 2038, Education 2039, the former Education 2041, Education 3007, Education 4221 or 4231, Education 4330, Linguistics 2021, or 2031
 - Professional Seminars. This is a non-credit component which is compulsory and will include seminars dealing with topics such as: Classroom Management, Organizational Skills, Healing, Computer Training, and Resource Development.

Note: Courses designated for the T.E.P.L. program (designated by T) are intended for students registered in this program, but may be opened to other students upon permission of the Office of Undergraduate Student Services.

4 Waiver of Regulations of the Faculty of Education

Regulations involving course prerequisites or co-requisites, departmental regulations, and faculty regulations may be waived where circumstances so warrant. The routing of requests for such waivers and the procedure for appealing unfavourable decisions are outlined in the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**.

5 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the Faculty.

Students wishing waiver of Education 3650, Education 4700, post-cessional block or Education 401X should refer to the waiver guidelines under each appropriate program.

All courses of the Faculty are designated by ED.

Legend:

PE: Courses for students on the Primary/Elementary program

IS: Courses for students on the Intermediate/Secondary program

ISI: Courses for students on the Intermediate/Secondary Conjoint with the Diploma in Technology Education program

T: Courses for students on the T.E.P.L. Diploma program

A: Courses for students on the Diploma in Adult Teacher Education program

ME: Courses for students on the Music Education program

PS: Courses for students on the Post-Secondary Education programs

SE: Courses for students on the Special Education program

NPE: Courses for students on the Native and Northern Teacher Education program - Primary/Elementary route

NS: Courses for students on the Native and Northern Teacher Education program - Secondary route

2022 The Teaching of Inuktitut (T,NPE) focuses on the preparation of materials and classroom strategies for the teaching of Inuktitut in Primary and Elementary schools in Native communities. Attention will be given to linguistic difficulties encountered in schools by children whose first language

is English.

2023 Language and Culture in Education (NPE,NS) is an overview of issues of language and culture in Native and Northern Education. Emphasis will be placed on examination and development of curricula and materials that recognize cultural diversity (especially Aboriginal cultures), foster the teaching and maintenance of Aboriginal languages, and support the work of Aboriginal language specialists in the classroom.

2032 The Teaching of Montagnais (T,NPE) - inactive course.

2035 The Teaching of History and Culture of Labrador Inuit and Innu (T) applies the principles of effective teaching to the learning of history and culture as it applies to the Labrador Inuit and Innu. Topics include specific teaching strategies and examination of the selection and use of learning resources for unit planning, development and evaluation.

2036 The Teaching of Aboriginal Issues (T) examines the teaching of specific current events relevant to Labrador Inuit and Innu. This will include issues in the areas of education/environment/society politics/self-government/industry and the economy. Class sessions will include a workshop mode of learning (public speaking, panel debates, use of Internet, research, survey and interviews).

2037 Aboriginal Drama (T) introduces drama as a way of transmitting culture and values and as a vehicle to communicate. Topics include an examination of the foundation, values and assumptions of drama (with emphasis on aboriginal forms) as an effective means of curriculum implementation in Innu-aimun and Inuktitut. An activity-centred approach will be emphasized.

2038 Aboriginal Music and Art (T) is a study of music and art in cultural transmission. The course will develop skills in reading and writing associated with Innu and Inuit cultures, and will emphasize activities for exploring the elements of music. Innu and Inuit art forms will be explored as well as art as decoration in Innu and Inuit society.

2039 Cultural Camp (T) is intended for aboriginal people to learn about ways of helping and healing that are traditional to their own culture and to learn ways of effectively incorporating those cultural aspects in the school

curriculum of aboriginal schools. This course includes a one-week field trip to an isolated camp in coastal Labrador, where students and instructors will live according to traditional cultural practices under the guidance of community elders.

2040 Basic Interpersonal Communication (PE) is designed to help students develop confidence through self-expression, and acquire skills in interpersonal relationships.

CR: the former ED 2041

2050 Introduction to Drama Education (PE,ME) is designed to introduce students to the use of drama as a learning medium. Students will be expected to participate in and to critically analyse practical drama sessions in order to gain an understanding of the fundamental nature of drama. Students will be engaged in a variety of teacher devised drama structures to introduce them to the theory and practice of selected pioneers in the field. Reference will be made to some aspects of child development such as play, cognition, affect and language and their relationship to learning through drama. It is expected that students will begin to formulate a rationale for the use of drama education in their future classroom practice.

CR: the former ED 2030

2182 An Introduction to the Teaching of Science in the Primary and Elementary Grades - inactive course.

2194 Physical Education in the Primary and Elementary Grades (PE,T,ME,NPE) examines the curriculum organization in physical education for the Primary and Elementary grades; instructional material and teaching techniques for these grades; creative, aesthetic, and health-developing aspects of physical education.

CR: the former ED 3070, or the former ED 2192 taken during the 1984-85 or 1985-86 academic years

2200 Language Arts - inactive course.

2202 Education in Native and Northern Communities - An Overview (PE,NPE,NS) is a general introductory course for students planning to teach in a classroom where Innu and/or Inuit children are in attendance. Emphasis will be placed on creating an awareness of the religion, philosophy, cultural values and way of life of Native peoples; the legal and administrative processes concerning Native peoples from the past to the present; a historical perspective in Native education; and contemporary issues and trends in Native education. This course will provide the necessary foundation for the training of teachers who are sensitive to the influence of culture on the values, behaviour, needs and motivations of children.

2222 Teaching English as a Second Language (PE,IS,NPE,ISI, NS) includes selection and preparation of materials, and suitable classroom strategies for teaching English as a second language. Stress will be on the methods appropriate to cope with linguistic difficulties encountered in schools by children whose first language is not English.

2350 An Introduction to the Teaching of Mathematics in the Primary and Elementary Grades (T,NPE) examines intuitive notions of a mathematical system with special emphasis on the concepts, basic mathematical properties and skills associated with the number systems of arithmetic. Additional topics will include relations, functions and basic concepts of Geometry related to the Mathematics programs of the elementary school.

2361 The School and Community - inactive course.

2430 Administration and Supervision in Native and Northern Education (NPE,NS) is a study of the administrative structures involved in the education of children of Innu and Inuit backgrounds. The study examines the administrative structures of the past and present with particular reference to the problems which arise in the administration of schools in remote, isolated regions. Further, the study includes an overall examination of the alternative Native processes of education relevant to the philosophy of Native people.

2500 Orientation to Music Education (ME) is an introduction to music education, bridging life as a musician and the development of a career as a musician-teacher. Topics include an overview of theoretical, philosophical, historical, sociological, cultural, psychological, methodological, and curricular foundations of music education as well as contemporary contexts and issues in music education. Emphasis is on research and writing in music education, technology applications, and the development of functional keyboard skills specific for music educators.

2515 Primary/Elementary School Music Methods (ME,PE) examines current pedagogical practices, methodologies, and resources for use in the primary and elementary school music program. Within the context of authorized K-6 curriculum guides, teacher candidates will develop skills and instructional strategies for developing the singing, moving, playing, listening, and creating child.

CR: the former ED 2510, the former ED 2530

PR: Primary/Elementary program candidates must have completed the focus area in music

2520 Voice and Choral Methods (ME) examines current pedagogical

practices, procedures, and resources for use with all levels of school singing ensembles and choirs. Emphasis is placed on developing teacher candidates' own vocal techniques. Topics include philosophy and history of choral music education, vocal and choral pedagogy, and components/organization of choral programs.

2655 Recognizing and Protecting Children's Needs - inactive course.

2710 Course Organization and Development in Post-Secondary Education (A,PS) examines the development of procedures for the identification of concepts in instructional units; analysis of tasks and identification of related competencies; development of resource units.

2711 Course Organization and Development in Technology Education (ISI) is an examination of the development, structure and organization of technology education curriculum locally and internationally; applications of design and problem solving instructional strategies; the management of resources in technology education laboratories; the development of resource units for teaching.

2720 Introduction to Post-Secondary Education (PS) is a study of the back-ground of Post-Secondary Education and of its development and present forms in Newfoundland, other provinces of Canada, and other countries; an examination of current programs in Post-Secondary Education; the role of federal and provincial governments in Post-Secondary Education.

2730 General Methods of Teaching in Post-Secondary Education (A,PS) is an introduction to the methodology of teaching psychomotor and cognitive skills; selection of appropriate methods for individual and group instruction; organizing laboratory and shop instruction; principles of instructional management.

2750 Introductory Design and Materials Processes (ISI) examines theory and practice of teaching problem solving, design and materials processes. Topics and practical activities include production and computer assisted design.

AR: attendance is required

OR: WHMIS training. Information can be obtained from the Office of Undergraduate Student Services.

2752 Teaching Current and Emerging Power Technology Systems (ISI) provides technology education students with opportunities to apply current teaching and learning strategies to the issues surrounding traditional and emerging energy technologies. Major topics of study include: fundamentals of sustainable energy production and control, redevelopment and use of traditional energy sources, application of solar energy, wind power production, and fuel cell development and utilization.

AR: attendance is required

OR: WHMIS training. Information can be obtained from the Office of the Undergraduate Student Services.

2800 Introduction to Adult Education (A,PS) is a review of the history of the Adult Education movement. The rationale for the investment of public or private resources in the education or training of adults. An examination of current educational philosophies related to Adult Education.

2801 The Adult as Learner (A,PS) examines the implications for diversity in adult programs and instructional strategies for adults with various social roles, abilities, attitudes, interests, and skills.

2803 Educational Aspects of Adult Development (A,PS) is an examination of the educational aspects of adult development from early adulthood through middle age to later maturity.

2806 Sociology of Adult Education (A,PS) explores the sociological context of adult learning. The interrelationship between particular social factors (e.g., age, sex, occupational structure) and the need for adult educational programs are studied. The potential effects of such programs on society are examined with reference to community development. Special emphasis is given to societal change as it relates to education as a way of life.

2900 Introduction to Statistics in Education (PE,IS,ISI,ME) is a laboratory course which takes a practical case study approach to survey and quasi-experimental quantitative methods in education, together with supporting statistical concepts of probability, descriptive and inferential statistics sampling and sampling distributions, correlation and bivariate regression.

3001 Supervised Practice Teaching in Native Schools I (T) is a four month period as a teaching assistant involved in the preparation of teaching materials, teaching assigned lessons and participating in other activities related to the duties of a teacher. This session is to be under the direction of a co-operating teacher and a university professor.

3002 Supervised Practice Teaching in Native Schools II (T) is a four month continuation of the experiences provided in Education 3001 with added responsibilities, and increased development of competencies essential for teaching. Prospective interns for the Fall semester should apply not later than February 15; prospective interns for the Winter semester should apply not later than September 30. Prospective interns for the Spring semester should apply not later than October 15. Applications received after

these dates will be considered in terms of the number of spaces available.
PR: ED 3001

3007 Teaching Strategies in Native and Northern Schools (T,NPE,NS) will examine a broad range of teaching strategies and instructional methods which may be used in classrooms. Students will be encouraged to incorporate elements of the Native and northern perspective in order to bring relevance to the province-wide curriculum. Particular emphasis will be placed upon how Native groups perceive education and the methods they view as appropriate.

CR: the former ED 2230, the former ED 2240, the former ED 4320

3009 Drama Education in the Primary and Elementary Grades (PE,ME) - inactive course.

3040 The Assessment and Development of Children's Language Abilities (PE,SE) focuses on techniques for assessing language abilities in primary and elementary students and will provide models for developing strategies in implementing language instruction appropriate to students' needs.

PR: ED 4350, 3543, or the former 3540 or 3545

3050 The Teaching of French as a Second Language in the Primary and Elementary Grades (PE,ME) is an introduction to the general principles of second-language teaching, to the curriculum materials currently prescribed for use in the schools, and to a consideration of teaching strategies and evaluation techniques associated with these materials.

PR: French 2101

3052 and 3053 Institute for Teachers of Core French in the Elementary Grades (PE) - inactive course

3120 Foundations of Art Education (PE,ME,NS) develops an understanding of art in relation to current theories of education and art education and to provide individual exploration of an experience in appropriate techniques. Curriculum will be examined with the focus on understanding how to provide favourable conditions and experiences for high quality individual development in visual expression.

CR: the former ED 2020, the former ED 3110, the former ED 3112

3131 Music Education in the Primary/Elementary Grades (PE) is designed to provide the prospective primary/elementary classroom teacher with the knowledge, skills and understandings necessary for presenting basic music concepts and skills to students and for using music as a means for teaching or enriching other areas of the curriculum. Course work will include study in the three facets of general classroom music: scholarship of the discipline, musicianship, and classroom methodology.

CR: former ED 3130

UL: not applicable towards the Conjoint Degrees of Bachelor of Music and Bachelor of Music Education or the Bachelor of Music Education as a Second Degree

3140 Creative Arts (T,NPE) - inactive course.

3150 Bilingualism: Linguistic, Cognitive and Educational Aspects (PE) - inactive course.

3210 An Introduction to Guidance Services (A,PE,IS,ISI) is an introduction to guidance services in the modern school with specific emphasis on its history, purpose, basic concepts and principles, and services. Students are introduced to the nature of counselling, ways of developing effective interpersonal relationships within the school environment, and the role of the school counsellor and other educational personnel in the provision of guidance services.

3211 Introduction to Career Education (PE,IS,ISI) is an introduction to contemporary concepts and practices of career education and to theories of career development. Emphasis is on the practical application of theory and basic principles to the design and delivery of career education programs and to career counselling. Attention will be given to continuing career counselling and career development needs of individuals as well as to groups with special needs.

CR: the former ED 4906

3255 Child Abuse and the School-Age Child (PE,IS,ISI) will discuss the general issues of child abuse including definitions, detection, reporting, protection, prevention, and the educational implications of child abuse. A number of specific issues including provincial policies presently in force in Newfoundland and Labrador and elsewhere will be examined. The teacher's role in collaboration between officials in education, social work, health and justice agencies will be explored with a view to preventing abuse and modifying the circumstances of abused children.

3273 Science in the Primary/Elementary Grades (PE) is a practical course designed to develop approaches to Science teaching based on student investigation of scientific phenomena. Examples are drawn from both provincial and other major curricula.

CR: the former ED 2180, the former ED 3270, the former ED 3275

3280 Educational Assessment (A,PS) is a study of the broad spectrum of educational assessment focussing specifically on the development of

objectives, the construction and use of formal teacher-made tests, the use of informal assessment techniques, the interpretation and application of assessment data, continuous evaluation, criterion-referenced measurement, and emerging trends in assessment.

CR: the former ED 4912

3281 Tests and Measurements (T,NPE,NS) examines basic concepts of evaluation involving teacher-made and standardized tests, with particular reference to validity and reliability in cross-cultural situations.

CR: the former ED 4912

3290 Identifying Learner Diversity Within a Context of Culture (PE,IS,ISI) - inactive course.

3312 Language Arts in the Primary/Elementary School I (PE) provides students with a holistic view of the learning and teaching of language arts (i.e., the receptive language abilities of viewing, listening and reading, and the expressive language abilities of speaking and writing). This course will help students develop a theoretical perspective on two major aspects of language, that being "knowledge of language" (i.e., knowledge of the structures of language) and "knowledge about language" (i.e., knowledge about attitudes and perceptions towards language and the various purposes of language). This course will extend students' understanding of the importance of the home/community influences upon emergent and developmental literacy and language development.

CR: the former ED 2210, the former ED 2220, the former ED 3305, the former ED 3315

3321 Native Literature (T,NPE) is an examination of Native literature with special emphasis on writings of Native peoples for Native children. Literature which presents the Native point of view will be examined in the light of historical and current developments in Native and northern conditions.

3322 Children's Literature in the Primary/Elementary School (PE) focuses on the personal and educational values for using children's literature in the classroom, examines the literary genres appropriate for primary/elementary children and explores meaningful literacy extensions to develop children's literacy strategies and skills. In addition, the course examines guidelines for evaluating children's literature for literacy and aesthetic qualities. Instructional strategies to integrate children's literature across the curriculum are explored.

CR: the former ED 2060, the former ED 2065, the former ED 3310, the former ED 3320

3430 General Methods of Instruction of Adults (A) is a study of the various processes of Adult Education: discussion groups, case studies, role playing, individual and group discovery, demonstrations, simulation exercises, action research, report writing and lectures.

3440 Organization and Administration of Programs in Adult Education (A,PS) examines alternative provincial or regional methods of organization for the provision of Adult Education, including the statutory framework within which Adult Education functions.

3484 Computers and Learning Resources for Primary/Elementary Teachers (PE) focuses on the integration of computer software and other learning resources into primary/elementary school teaching. Laboratory components will be scheduled so that students may learn how to use and implement communications, applications and curricular software.

CR: the former ED 3480, ED 3801, the former ED 4480, the former ED 4905

3515 Current Approaches to Reading in the Primary and Elementary Grades (PE) - inactive course.

3542 Reading in the Primary and Elementary Grades (NPE) is concerned with the teaching of reading in the primary and elementary grades. Special attention is given to the learning needs of children whose first language is not English. Emphasis is placed upon understanding the nature of the reading process and the current practices used in classroom reading instruction for kindergarten through grade six.

CR: the former ED 2110, the former ED 2120, the former ED 3540, the former ED 3543, the former ED 3545

UL: applicable only to students enrolled in the Bachelor of Education (Native and Northern) Degree program

3543 Language Arts in the Primary/Elementary School II (PE) provides students with a social-psychological perspective on children's learning to read, reading and reading to learn. Students will explore current and traditional models of the reading process and the importance of home/school/community contexts for fostering literacy learning. Students will apply instructional strategies for children's learning of story, book and print concepts, word identification, fluency, vocabulary development and comprehension for a variety of texts.

CR: the former ED 2110, the former ED 2120, the former ED 3540, ED 3542, the former ED 3545

PR: ED 3312

3565 Gender and Schooling (PE,IS,ISI) is an introduction to the study of gender and education. It includes a historical overview of the link between

gender and schooling as well as an examination of contemporary theoretical perspectives and research relating to the role of the school in gender development in general and gender inequality in particular. Implications for educational policy and practices will also be explored.

3570 History of North American Education (PE,IS,ISI) - inactive course.

3571 The History of Education in Newfoundland Since 1800 (PE,IS,ISI) is a survey of the main trends in the development of the educational system; the social, religious and demographic factors which have affected educational progress; the place of education in the cultural development of Newfoundland.

3573 History of Native and Northern Education in Canada (PE,NPE,NS) - inactive course.

3585 Multiculturalism and Education (PE,IS,ISI) - inactive course.

3600 Academic and Behavioural Assessment (SE) applies the theories of test development in establishing a competent understanding of the utilization of diagnostic and prescriptive instruments as well as teacher-made tests as they apply to the area of exceptional children.

3610 Nature and Characteristics of Intellectual Disabilities (SE) aims to provide an understanding of the nature and characteristics of intellectual disabilities and the psycho-social implications of this area of exceptionality.

3618 Nature of the Primary/Elementary School Child - Development (ME,PE) is intended to provide students with an awareness and understanding of the origins of many aspects of child behaviour and competence. While focussing on the development and nature of the "normal" child, where appropriate, contrasts and comparisons will be made between the development of "normal" and "exceptional" individuals.
CR: the former ED 2610, the former ED 3240

3619 Nature of Primary/Elementary School Child - Learning and Cognition (ME,PE) provides an introduction to human learning, motivation and cognition and to the related concepts and theories underlying children's classroom learning and behaviour. Focus will be on typical development with some attention to atypical (exceptionality) functioning in these areas. The course will familiarize students with the concepts and vocabulary used to describe classroom learning and with explanations and justifications for many educational and instructional activities and practices. Particular attention will be paid to application of this knowledge to instruction and classroom management and to the facilitation of learning.
CR: the former ED 3616, the former ED 3615
PR: ED 3618

3620 Nature and Characteristics of Emotional/Behavioural Disorders (SE) includes an examination of procedures for the early identification of children with behavioural disabilities and major systems of classification of behaviour problems. It will also include an analysis of: aberrant adjustment mechanisms, deviant development and specified behaviour problems with implication for therapeutic education.
PR: ED 4240, or the former ED 3220 or ED 3230

3630 Nature and Characteristics of Learning Disabilities (SE) examines our theoretical understanding of the nature and characteristics of learning disabilities. It explores contemporary understandings, assessment/identification approaches, and current research as it relates to educational practice.
CR: the former ED 3231

3640 Current Issues in Special Education (PE,SE) consists of a study of special and selected problems related to the teaching of special education with particular emphasis placed on special education within the Province of Newfoundland and Labrador.
PR: ED 4240, or the former ED 3220 or ED 3230

3650 Practicum in Special Education (SE) encompasses a practice experience with students who have an identified exceptionality. The emphasis will be on a supervised field placement in a special education position within a school setting.
PR: completion of 18 credit hours in Special Education including ED 3600

3660 A Study of the Gifted Child (PE,ME,SE) is an examination of the nature and characteristics of gifted children, with emphasis upon methods of identifying gifted children, implications of giftedness for learning and instruction and reviews of several educational programs for the gifted.

3680 Inclusive Practices for Students with Autism Spectrum Disorder (ASD) (SE) examines the nature of ASD with particular focus on methods of behavioural assessment, use of assistive technology and specific therapy techniques. Support programs will be considered within an ecological context that prioritizes collaborative planning with parents and other therapeutic agents.

3690 Collaborative Practice (SE) examines the theoretical and practical aspects of collaborative practice within an interagency model of case planning for students with diverse learning needs. Emphasis is on exploring issues of power/empowerment, consultation, communication, conflict

resolution/problem-solving, advocacy and collaboration. Perspectives of parents and families, educators, and community resource professionals will be explored. The course strives to create a family-focussed approach to effective planning in contemporary schools.

3691-3699 Special Topics Courses in Special Education (SE) to be announced by the Faculty of Education.

3710 Group Instruction in Post-Secondary Education (PS) is an in-depth study of various methods of group instruction; planning and presenting demonstration teaching units; practice in techniques of group instruction.
PR: ED 2710 and ED 2730

3720 Individualized Instruction in Post-Secondary Education (PS) is a study of the various systems of individualized instruction; the theoretical basis for individualizing courses, individual differences, organizing individualized courses, selection and development of materials; management of individual student progress.
PR: ED 2710 and ED 2730

3730 Curriculum and Instructional Development in Post-Secondary Education (PS) examines the social, cultural, philosophical, and economic forces influencing changes in Post-Secondary curriculum and instructional methods. Study of current Post-Secondary Education curriculum designs, problems and trends; methods of gathering curriculum information; procedures for revising and evaluating a curriculum.
PR: ED 2710 and ED 2730

3750 Intermediate Design and Materials Processing Technology (ISI) provides opportunities to apply current teaching and learning strategies within the technology education laboratory environment. Technology education students will examine labor trends that are impacting society's ability to expand and maintain today's infrastructure. Innovative teaching methodologies will be utilized to facilitate further investigation of the opportunities offered in skilled trades. Topics include: Red Seal Certification, print reading and application of the National Building Code within selected skilled trades.
AR: attendance is required
OR: WHMIS training. Information can be obtained from the Office of Undergraduate Student Services.

3751 Teaching Intermediate Communication Systems (ISI) examines the application of communication techniques through the various forms of media available. Technology education students will engage in activities that will provide insights into how current teaching and learning strategies can be blended with contemporary communication devices and means to facilitate collaborative lifelong learning. Topics include: web based multimedia, graphic design, audio/video production, animation production and social networking applications.

3801 Educational Media (A,PS) introduces audio visual communications with emphasis on equipment operation and basic local production of instructional materials; and the application of computers to education.
CR: the former ED 3480, ED 3484, the former ED 4480, the former ED 4905

3920 Instrumental Teaching Methods (ME) examines current pedagogical practices, procedures, and resources for teaching brass, woodwinds, percussion, and strings in both band and orchestral school settings. Emphasis is placed on the development of comprehensive instrumental music education programs.
LH: a 2 hour twice weekly laboratory section (MUN Lab Band and Orchestra) designed to provide practical teaching experience and methodology in both band and orchestral settings

3925 Intermediate/Secondary School Music Methods (ME) examines current pedagogical practices, procedures, and resources for teaching Music in the intermediate/secondary schools. In addition to standard contexts in general music, choral, and instrumental settings, emphasis is placed on technology and settings such as musical theatre in order to reflect the diversity of music programming in intermediate/secondary schools.

3940 Mathematics in Primary and Elementary Grades (PE, ME) is a general overview of aspects of teaching Mathematics in the primary and elementary grades. Theories of child development as they relate to Mathematics teaching, characteristics of Mathematics topics in primary and elementary grades, and the implications for teaching will be the major topics to be discussed in this course.
CR: the former ED 2340, the former ED 2310, the former ED 2320

3941 Diagnosing and Directing Learning in Primary and Elementary Mathematics (PE,T,SE) is a study of aspects of diagnosis and remediation in primary and elementary Mathematics, and of the basis for constructing and applying diagnostic techniques. The course offers an examination, development, and application of a variety of manipulative aids and assistive technology to be used in the teaching of Mathematics in the primary and elementary grades.
PR: ED 3940

3945 and 3946 Institute in Teaching of Junior High School Mathematics

Courses (PE) will focus on the nature of junior high Mathematics instruction and how it should differ from elementary and high school instruction. Emphasis will be placed on the transition between informal and formal approaches to the teaching of junior high Mathematics. The Van Hiel levels and their implications for instruction in geometry will be discussed. Activities appropriate to the teaching of junior high Mathematics will be developed and demonstrated. A particular focus in this component of the Institute will be on activities appropriate to the new program and how they can be integrated into the junior high Mathematics curriculum.

PR: ED 3940 (or equivalent) or ED 4161 (or equivalent) or permission of the instructor

3951 Curriculum, Instruction, and Assessment in the Primary/Elementary School I (PE) is designed to engage students in an introduction to curriculum, instruction, and assessment in the primary/elementary school through active participation in problem solving. Students will be introduced to the different ways that primary/elementary school children view and make sense of their world (i.e., the linguistic, mathematical, scientific, and artistic). Working through such a framework, students will be introduced to instructional strategies and planning, formative and summative assessment, and issues inherent in the management of the primary/elementary classroom, as they create multi-disciplinary, thematic, resource-based units.

3952 Curriculum, Instruction, and Assessment in the Primary/Elementary School II (PE) is designed to engage students in a deeper exploration of issues in curriculum, instruction, and assessment in the primary/elementary school through active participation in problem solving. Students will be introduced to the different ways that primary/elementary school children view and make sense of their world. Working through such a framework, students will be introduced to instructional strategies and planning, formative and summative assessment, and issues inherent in the management of the primary/elementary classroom, as they create multi-disciplinary, thematic, resource-based units.

PR: ED 3951

3961 Social Studies in Native and Northern Schools (T,NPE) will include an examination of teacher planning, appropriate teaching strategies for and the evaluation of pupil learning in the social studies within those contexts, in addition to exploring the nature and purposes of social studies education in Native and northern schools.

CR: the former ED 2150, the former ED 3960

3962 Social Studies in the Primary/Elementary School (PE) is an introduction to the social studies program at the primary/elementary school level. Topics to be explored include the nature and purposes of the social studies curricula, approaches to teaching and learning in this curricula area, selecting and utilizing learning resources, and conducting assessment in the social studies.

CR: the former ED 2160, the former ED 3960

4005 Effective Teaching and Learning Environments (IS,ISI) introduces the principles, dispositions, and skills needed to create various types of effective learning environments. Topics include: professional relationships, school culture, decision making classroom management and models of teacher power.

401X Undergraduate Teaching Internship (PE) (equivalent to 15 credit hours in Education) is designed as an extended practicum affording students an opportunity to integrate theory and practice in a working situation, the internship consists of intensive classroom experience extending over one semester during the final stage of the program. During this period, students will be provided with educational experiences in which the interrelationships among the components of the university program are brought into focus through the teaching exercise.

The internship is intended to help students develop their individual style of teaching, to enable students to recognize the scope and complexity of a classroom teacher's role and responsibility, and to provide opportunities for the study of children as individuals and in groups, both in the classroom and other school settings.

Beginning with orientation activities early in the semester, students' responsibilities will include observing and analysing teaching-learning activities, preparing and presenting student-learning activities, assessing both personal and class progress, and participating in discussions with co-operating teachers and faculty advisers. Throughout the internship semester, students will be required to participate in seminars related to in-school work.

AR: Attendance is mandatory. With respect to holidays, interns follow the schedule of the school and not that of the University.

CR: the former ED 302X and ED 403X

OR: students may not be placed in their first district of choice and may be assigned to another Provincial school district

PR: successful completion of the professional year. Students completing a Focus Area in French must have completed the courses in French required under the regulations for this focus area, and Education 3050.

4020 Issues and Trends in Native Education (NPE,NS) is a seminar course dealing with research, current problems and issues associated with Native Education within a Canadian, and in particular, a Newfoundland and

Labrador context.

403X Internship in Music Education (ME) (equivalent to 15 credit hours in Education) is a one semester internship in one or more schools to provide student teaching experiences in choral, classroom, and/or instrumental teaching contexts in primary, elementary, intermediate, and/or secondary schools settings.

AR: Attendance is required. With respect to holidays, interns follow the schedule of the school and not that of the University.

OR: students may not be placed in their first district of choice and may be assigned to another Provincial school district

PR: ED 2500, ED 2515, ED 2520, ED 3920, ED 3925 and any additional requirements as outlined in the letter of acceptance to the music education program

404X Internship in Native and Northern Education (NPE,NS) (equivalent to 15 credit hours in Education) is a one-semester internship in a school setting that will enable students to become directly involved in the teaching/learning process through observation and practice. Activities during the semester will involve seminars to assist students in the assessment of teaching methodologies most appropriate for the curriculum in Native schools. Student placement will be in a school setting depending upon the program route which students have followed.

AR: Attendance is required. With respect to holidays, interns follow the schedule of the school and not that of the University.

PR: see Bachelor of Education (Native and Northern) Degree Regulations

406T Introductory Internship in the Intermediate and Secondary School (IS,ISI) is a 10 (consecutive) work day teaching and learning experience, framed by explicit guidelines, that focuses on key learning experiences and graduated responsibilities related to professional teaching. It includes both observation periods and initial teaching experiences.

AR: Attendance is required. With respect to holidays, interns follow the schedule of the school and not that of the University.

407T Extended Internship in the Intermediate and Secondary School (IS,ISI) is a 60 day teaching and learning experience, framed by explicit guidelines, that focuses on key learning experiences and graduated responsibilities related to professional teaching. It includes both observation periods and extensive teaching experiences.

AR: Attendance is required. With respect to holidays, interns follow the schedule of the school and not that of the University.

CH: 12

CR: the former ED 405X

OR: Interns completing the Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education will be placed for part of the internship in a Technology Education classroom setting.

PR: Education 406T. Interns wishing to complete an internship in French immersion must complete Education 4154 and obtain the permission of the Office of Undergraduate Student Services. Normally, French immersion interns have the equivalent of a major in French and a minimum of two semesters in a French milieu.

4120 The Teaching and Learning of Art in the Intermediate and Secondary School (IS,ISI,ME) introduces the rationales for teaching art and examines contemporary art teaching practices. Teacher candidates will examine their roles as artist-teacher and teacher-artist, as well as explore learning in and through art. Topics include curriculum implementation; instructional planning; managing the learning environment; assessment and evaluation; safety; arts advocacy; and visual, artistic and technological literacies.

4121 The Teaching and Learning of Theatre Arts in the Intermediate and Secondary School (IS,ISI,ME) engages teacher candidates in developing their role as theatre artist/teacher. Topics include: beliefs informing the practice of theatre arts in the context of school; related pedagogies and educational practices in dialogue with the art form of drama; process drama and theatre education, an interdependent relationship; implementation planning strategies; communication style and facilitative language.

4142 The Teaching and Learning of the English Language Arts in the Intermediate and Secondary School (IS,ISI,ME) draws on research in the teaching and learning of English/language and literacy to prepare teacher candidates to develop engaging, differentiated experiences for students. Topics include: curriculum; the nature and structure of language and literature programs; test analysis, response and critique; writing and representing genres in multimodal and linguistic; media literacy forms; and oracy.

4151 Advanced French Methodology (IS,ISI,NS) is an in-depth analysis of the nature and purpose of the French program. Topics include a brief overview of the history of French teaching methodologies, an introduction to the research literature, an evaluation of techniques, and a consideration of issues facing the teaching of French.

PR: ED 4154 or permission of the Office of Undergraduate Student Services

4154 The Teaching and Learning of French in the Intermediate and

Secondary School (IS,ISI,ME) provides an introduction to the nature and purpose of French programs in Canada. Topics include: an overview of the purpose of core French and French immersion; theories and principles of second-language teaching and learning; methods; techniques, strategies and characteristics of effective planning and assessment in second-language teaching.

4155 Introduction to Teaching in French Immersion in the Primary and Elementary Grades (PE,ME) is a brief overview of the development of French Immersion programs; aims and objectives of French Immersion; evaluation of the extent to which objectives and materials can reflect those of the regular English classroom; analysis of differences between teaching in the French Immersion classroom and the core French, the French mother tongue, and the regular English classrooms; general teaching strategies appropriate to the level of French language development in the immersion setting.

OR: this course will be conducted in French

4161 The Teaching and Learning of Mathematics in the Intermediate and Secondary School (IS,ISI,ME,NS) introduces teacher candidates to the principles, dispositions, and skills necessary to teach mathematics. Topics include: the nature of mathematical knowledge, learning principles, mathematics pedagogy, curriculum, instructional planning, and evaluation in mathematics.

4174 The Teaching and Learning of Science in the Intermediate and Secondary School I (IS,ISI) provides a context for teacher candidates to develop the knowledge, abilities, and dispositions to provide learners with the opportunity to develop multidimensional scientific literacy. Topics include: assessment and instruction, controversial issues in Science, curriculum planning, differentiating instruction in science, inquiry, information and communication technologies in science, learning theories, multicultural science education, scientific literacy, science-technology-society-environment, and student naive and alternative conceptions.

CR: the former ED 4170, the former ED 4171, the former ED 4270, the former ED 4271

LH: two hours per week

4175 The Teaching and Learning of Science in the Intermediate and Secondary School II (IS) provides a context for teacher candidates to develop a greater understanding of the nature of scientific knowledge and how it is generated, explore the rationale(s) for the inclusion of the nature of science as a goal of scientific literacy, analyse research that reports on teachers' and students' views about the nature of science, and examine the potential of a range of pedagogical approaches for helping all learners in science develop a greater understanding of the nature of science. Topics include: philosophy, history, and sociology of science; the nature of science (definitions and beliefs); and the nature of science in the classroom.

CO: ED 4174

4180 The Teaching and Learning of Social Studies in the Intermediate and Secondary School (IS,ISI,ME,NS) examines the theory and practice of social studies education. Teacher candidates will investigate ways of applying the principles of effective teaching and learning in the social studies classroom. Topics include: the nature and purpose of social studies education, specific teaching strategies, and instructional planning and evaluation.

4181 The Teaching and Learning of Social Studies in the Intermediate and Secondary School II (IS) examines the separate disciplines of social studies. Topics include: the evolution and nature of social studies education, current issues and trends in the area and various teaching strategies and assessment techniques appropriate to the discipline.

CO: ED 4180

4190 The Teaching and Learning of Physical Education in the Intermediate and Secondary School (IS,ISI,ME) applies the principles of effective teaching to the teaching and learning of physical education. Topics include the nature and purpose of physical education, an examination of the physical education curriculum, an analysis of quality daily physical education, approaches to teaching physical education, and evaluation of progress in physical education.

LH: two hours per week supervised practice teaching on-campus and/or in a school setting

4203 The Teaching and Learning of Religious Education in the Intermediate and Secondary School (IS,ME) applies the principles of effective teaching to the teaching and learning of religious education. Topics include formulating objectives, examining theories of faith and moral development, selecting and using resources, and evaluating learning.

4205 Religious Education in Primary and Elementary Grades (PE,ME) is an introductory study of aims and objectives, subject matter, curriculum materials, teaching methods, learning experiences, and evaluation for Religious Education courses.

CR: the former ED 2080

4220 The Teaching of Inuttut I (T,NPE,NS) explores a variety of teaching techniques and materials developed to assist in the teaching of Inuttut in Native schools. Problems associated with second-language teaching will be

explored.

PR: 9 credit hours in Inuttut

4221 The Teaching of Inuttut II (T,NPE,NS) is a continued exploration of teaching techniques and material development for the teaching of Inuttut with emphasis on linguistic difficulties encountered in Native schools by children whose first language is English.

PR: ED 4220

4230 The Teaching of Innu-aimun I (T,NPE,NS) explores a variety of teaching techniques and materials developed to assist in the teaching of Innu-aimun in Native Schools.

PR: 9 credit hours in Innu-aimun

4231 The Teaching of Innu-aimun II (T,NPE,NS) explores a variety of teaching techniques and material development for the teaching of Innu-aimun. Linguistic difficulties encountered by students whose first language is not Innu-aimun.

PR: ED 4230

4240 An Introduction to the Exceptional Learner (IS,ISI,ME,PE) is an introduction to the nature of exceptionality in the student. Topics include an examination of special needs resulting from exceptionality, approaches to meeting the special needs, issues of exceptionality, and a consideration of selected categories of exceptionality.

CR: the former ED 3220, the former 3230, the former ED 4902

4242 Identification and Remediation of Learning Difficulties (IS,ISI,PE) examines the identification processes and remediation techniques appropriate for dealing with student learning difficulties. Topics include identification of learning difficulties, the process of program planning, and the application of teaching and learning strategies to specific subject areas.

PR: ED 4240 or the former 3220 or 3230

4250 and 4251 Institute for Teaching French in Immersion Programmes Courses (PE) - inactive course.

4252 and 4253 Institute in the Teaching of Social Studies in French Immersion Courses (PE) - inactive course.

4260 Engaging the Adolescent Learner (IS,ISI,ME) considers the unique learning contexts and characteristics of learners through the span of adolescence, from early adolescence to young adulthood. It focuses on the intersection of psychological aspects of adolescence with biological, social and cultural, as well as cognitive and affective aspects in order to understand, to engage, and to effectively teach the adolescent learner. The implications of these unique periods for creating effective teaching and learning environments in both intermediate and secondary classrooms will be considered.

4275 Environmental Education Across the Curriculum (IS,ISI) examines various international and Canadian initiatives, models, curricula, and programs in environmental education and explores effective methods of developing environmental awareness through the various content areas of elementary, intermediate and secondary education.

4300-4310 Special Topics Courses in Primary/Elementary (P/E) will have topics to be offered announced by the Faculty of Education.

4330 Curriculum and Instruction in Native and Northern Schools I (T,NPE,NS) reviews the principles of and techniques for curriculum development. Adaptation or reformulation of these will be made in the light of the needs and desires of Native peoples. Critical analysis will be made of curriculum resources presently in use. Instructional materials will be prepared and produced with emphasis on printed materials relevant to the experiential background of the Indian and Inuit child.

4331 Curriculum and Instruction in Native and Northern Schools II (PE,NPE,NS) is an in-depth examination of innovations in curriculum and instruction in Native communities within Canada. Emphasis will be placed on projects in curriculum planning and the development of instructional material, to be conducted in conjunction with school personnel already in the field. This course would serve as a valuable resource to school systems involved in curriculum planning and instructional development.

4350 Reading in the Content Areas (IS,ISI) examines the nature of reading in subject-specific areas such as history, biology, and mathematics. Topics include the role of the teacher in the teaching of content in different areas, evaluating vocabulary, grammar, usage and text structure for instruction, and analysing the variety of strategies for reading, writing and studying.

4362 Sociological Perspectives on Teaching and Learning (PE,ME) is an examination of such social issues in education as poverty, child abuse, gender, ethnicity, and changes in the society and their implications for the nature and process of schooling. A study of social dimensions of education, including the content of education and the organization of teaching and learning. An analysis of students' experiences in the internship with regard to the above and other aspects of education the students might identify.

CR: the former ED 4360

PR: completion of the Professional Year

4381 Perspectives on Schooling (IS,ISI,ME) examines educational theory, practice and policy from the disciplinary perspectives of philosophy, sociology, history and/or comparative education. Its aim is to foster an appreciation of the intrinsic value of these specific forms of inquiry as contributions to contemporary understanding of educational enterprise. Topics include: ethical and epistemological considerations related to areas such as critical pedagogy, equal educational opportunity, educational reform, change and social justice.

4383 Philosophy of Teaching and Learning (PE,ME) examines a number of central philosophical concepts, assumptions and issues involved in the pursuit of teaching and learning in the schools. The aim of the course is to provide students with an understanding of the distinctive character of philosophical analysis as a reflective and critical practice that intends to promote professional excellence and personal well-being.

CR: the former ED 4380

PR: completion of the Professional Year

4390 Diversity, Social Justice, Teaching and Learning (IS,ISI) examines the intersection of multiple and inter-related forms of social and cultural diversity such as those related to social class, ethnicity, gender, ability, place, and sexual identity. The course explores ways to create more effective equitable learning environments through renewed, culturally responsive and respectful policy; critical, reflective and anti-discriminatory teaching; and more inclusive, socially critical curriculum.

4420 Legal and Moral Issues in Education (IS,ISI,PE) examines educational law and sources of conventional morality for the purpose of clarifying individual stances on legal and moral issues. Topics include the nature and theoretical bases of law and morality in education, the legal foundations of the Canadian education system, the legal and moral rights and responsibilities of teachers and students, and teacher liability.

4425 Introduction to Educational Administration (PE,IS,ISI) is an examination of the roles of various levels of government in Education; theories of administration; management as it relates to curriculum, organization, personnel, finance, and communication; and their implications for teachers in the Newfoundland context.

CR: the former Education 2410

PR: completion of the Professional Year

4427 Professional Leading and Learning in the School Organization (IS,ISI) explores the theory and practice of school organization and its effect on teaching and learning and provide opportunities for teacher candidates to become reflective learners and teacher leaders. Topics include: parents and families, communities and schools; law and education; resources in education; policy and politics; teacher leadership, school and system administration; and the teaching profession.

CR: ED 4425

4450 Practicum in Adult Education (A) are on-the-job supervised activities designed to have the student implement the theory and principles of Adult Education.

4505 Transition Planning for Adolescents with Intellectual Disabilities (SE) focuses on the application of educational procedures relevant to successful post-secondary education, employment and community integration of adolescents and young adults with mild and moderate developmental disabilities. Appropriate senior high programming, life skills development, use of assistive technology and resource materials necessary for transition planning for this population will be reviewed.

CO: ED 3610

PR: ED 3610

4510 Inclusive Practices for Students with Mild Intellectual Disabilities (SE) gives consideration to the establishment of objectives; selection, development and review of materials; the use of various instructional strategies; assistive technology and the provision of appropriate experiences for the education of students with mild intellectual disabilities.

CO: ED 3610

PR: ED 3610

4515 Inclusive Practices for Students with Moderate Intellectual Disabilities (SE) focuses on inclusive educational practices for students with moderate intellectual disabilities. Emphasis will be placed on the development, implementation and management of a well-balanced individualized curriculum as articulated in an individual educational plan. Students will be expected to demonstrate fluency in the design of effective instructional strategies, including the use of assistive technology to maximize student's individual strengths across a variety of environments.

CO: ED 3610

PR: ED 3610

4520 Inclusive Practices for Students with Behavioural Challenges (SE) examines programs and strategies for students with behavioural issues. These will include counseling skills, case conferences, structured learning environments, use of assistive technology and therapeutic interventions for specific behaviour problems. In addition, consideration will be given to collaboration with mental health practitioners and procedures to develop readiness for return to regular instructional programs.

CO: ED 3620

PR: ED 3620

4530 Inclusive Practices for Students with Learning Disabilities (SE) investigates specific teaching methods, use of assistive technology and programming practices as they pertain to reading, writing, language, mathematics, social skills, and metacognitive skills for students with identified learning disabilities.

CO: ED 3630

PR: ED 3630

4540 Inclusive Practices for Students with Speech/Language Disorders (SE) examines theoretically sound and research-based methods for the identification and remediation of speech and language concerns in children and adolescents. Topics include typical language development; nature of developmental concerns for both speech (articulation, voice and fluency) and language (receptive, expressive and phonetic awareness); social use of language; and use of assistive technology. Particular focus will be placed on current interventions/strategies and programs/models. The course is aimed at supporting teachers in developing effective individualized programs.

4541 Communication for the Deaf - inactive course.

4543 Inclusive Practices for Students with Hearing Loss (SE) examines the effects of hearing loss on language and social/emotional development in students and the resulting programming implications for the inclusive classroom. The course strives to prepare teachers to identify the needs of students with various degrees of hearing loss and develop effective programs to accommodate their needs. The use of assistive technology such as hearing aids, cochlear implants and other assistive listening devices will be discussed.

4610 The Nature and Management of Stress (PE,IS,ISI) studies the nature of stress as it is manifested in the teacher and the teaching profession, and provides approaches to coping effectively with the factors which are related to that stress. Topics include the nature of the human stress response, causes and symptoms of stress (personal and professional), self-assessment techniques, and a selection of approaches available to cope with the stress typically related to the roles and expectancies of teaching.

4620-4639 Institutes in Intermediate and Secondary Education (IS) will be topics announced by the Faculty of Education.

CH: 1

4640-4659 Institutes in Intermediate and Secondary Education (IS) will be topics announced by the Faculty of Education.

CH: 2

4700 Student Teaching in Post-Secondary Education (PS) applies theories of education in the learning situation; observation and demonstration of lessons; seminars in teaching techniques.

PR: ED 2710, ED 2720, ED 2730, ED 2801, ED 3280, and ED 3801, or equivalent teaching experience and permission of the course instructor

4710 Recurring Issues in Post-Secondary Education (PS) identifies, analyses, and discusses major issues, practices and problems in Post-Secondary Education provincially, nationally, and internationally.

PR: ED 2710, ED 2720, and ED 2730

4730 Educational Programs and Practices in Industry and Labour (PS) is a study of the various Post-Secondary Education programs operated either wholly by industry and labour or jointly with educational institutions; apprenticeship, work experience and study programs, co-operative education, training-in-industry, training on-the-job, supervisory training, and management development.

PR: ED 2710, ED 2720, and ED 2730

4750 Integrated Materials and Production Processes (ISI) provides technology education students with opportunities to examine current teaching and learning strategies applicable to intermediate and secondary technology education programs. The course will focus on advanced materials processing using Computer Numeric Control (CNC) devices. Students will receive practical instruction in the use of fluidic control systems that are used in many manufacturing processes. Topics include: CNC production processing, fluidic control systems, and application of the design process and portfolio development.

4752 Technology Robotics Systems (ISI) is designed to provide technology education students with an understanding of key concepts in robotic development and control applications. Students will complete practical activities that promote development of the skills necessary to deliver a comprehensive program in this area of study. Topics include: the study of electrical energy, analog and digital electronics; fabrication techniques; object oriented/event driven programming; and wireless robotic control over Internet Protocol (IP).

AR: attendance is required

OR: WHMIS training. Information can be obtained from the Office of Undergraduate Student Services.

4753 Teaching Residential Construction Technology (ISI) provides technology education students with opportunities to apply current teaching and learning strategies while developing the skill set necessary to deliver a comprehensive program in residential construction technologies. Topics include: shop and site safety, print reading and interpretation, basic residential framing techniques, installation of exterior construction features, installation of interior environmental applications, and energy control systems.

AR: attendance is required

OR: WHMIS training. Information can be obtained from the Office of Undergraduate Student Services.

4760-4780 Advanced Specialized Post-Secondary Education Technologies (PS) examines the theory and practice of selected advanced specialized Post-Secondary Education technical skills and their application to the laboratory, workshop and business office. Emphasis will be placed on innovative and emerging techniques in selected areas of business, industry, and the service occupations.

4830 Music Education Seminar (ME) examines, through inquiry, reflection and synthesis, the foundations of music education common to all levels and contexts of school music. The focus is the bridging of theory, philosophy, and practice in music education. Topics include current issues; challenges and opportunities in music education (provincial, national, and international); interdisciplinary and integrated arts education; cultural pedagogy, diversity, and social justice in education; and teacher professional development. Additional modules will be designed to meet teacher candidates' needs and interests.

4901 Effective Teaching Strategies for Multi-grade/Multi-age Classrooms (PE,IS,ISI) begins with a critical examination of traditional approaches to multi-grading. The main focus of the course will be to introduce teachers to the potential of adopting a multi-age approach in small schools which have of necessity grouped children of more than one age group and grade level together for instruction. This course will also examine the implications of implementing a philosophy of multi-age pedagogy in the primary, elementary and intermediate grades (K-9).

4943 Computing Technology in Mathematics Education in the Primary and Elementary Grades (PE) will explore the impact of computing technology on Mathematics curriculum and instruction. Topics will include

the role of computers and calculators in developing mathematical concepts, computational skills and mathematical problem-solving processes; the use of computer animation and simulation to enhance Mathematics instruction; and, the evaluation and adaption of commercially developed software for Mathematics instruction. An in-depth look at LOGO and available CAL materials will be included.

PR: ED 3940

4944 Computing Technology in Mathematics Education in the Secondary School Grades will explore the role of the computer as a provider of learning experiences in the high school Mathematics curriculum. The focus of the course will be on CAL in Mathematics and will investigate drill and practice, tutoring, simulation, animation, and demonstration. The role of the computer in communication and testing in Mathematics will be included.

PR: ED 4161

4950 Assessment of Learning (IS,ISI) introduces the theory and practice of evaluation and assessment in educational settings. Topics include the nature of classroom assessment; production, administration and evaluation of teacher-made tests and other assessment tools; product and performance assessment; grading and reporting communication of evaluation information; and the analysis and application of assessment data to instructional planning and the improvement of teaching.

CR: the former ED 4912

4970-4980 Special Topics Courses in Intermediate/Secondary (IS) will have topics offered announced by the Faculty of Education.

5000 The Teacher Development Seminar (IS,ISI) provides teacher candidates with an opportunity to frame, conceptualize and articulate educational issues; (re)consider the purposes of education; reflect on teaching and learning; and develop and display artifacts that document learning, professional knowledge and practice, and teacher identity. Teacher candidates are expected to participate in a series of critical reflective seminars and workshops, and to create an electronic portfolio (e-portfolio). Topics include: critical reflection, professionalism and ethics in teaching, and teacher identity.

AR: attendance is required

OR: seminars, workshops and other professional development sessions

FACULTY OF ENGINEERING AND APPLIED SCIENCE

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

FACULTY OF ENGINEERING AND APPLIED SCIENCE

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Dean

Venkatesan, R., B.E.(Hons.) *Madurai*, M.Sc.E., Ph.D. *New Brunswick*, P.Eng.; Professor, Electrical and Computer Engineering; Dean *pro tempore*, July 1, 2011 - July 31, 2012

Naterer, G. F., B.Math., M.A.Sc., Ph.D. *Waterloo*, FCSME, FASME, FEIC, P.Eng.; Professor, Mechanical Engineering; Dean as of August 1, 2012

Associate Dean (Undergraduate Studies)

Fisher, A.D., B.Sc. *Queen's*, M.Eng. *McMaster*, FEC, P.Eng.; Associate Professor, Mechanical Engineering

Associate Dean (Graduate Studies)

Lye, L.M., B.Sc.(Hons.) *Bolton Inst.*, Ph.D. *Manitoba*, FCSCE, FEC, P.Eng.; Winner of the President's Award for Distinguished Teaching, 2003-2004; Professor, Civil Engineering

Interim Associate Dean (Research)

Moloney, C.R., B.Sc.(Hons.) *Memorial*, M.A.Sc., Ph.D. *Waterloo*; Professor, Electrical and Computer Engineering

Acting Director, Ocean Engineering Research Centre

Qiu, W., B.Eng., M.A.Sc. *Dalian University of Technology*, Ph.D. *Dalhousie*, P.Eng., Associate Professor, Ocean and Naval Architectural Engineering

Director, Industrial Outreach

Fisher, A.D., B.Sc. *Queen's*, M.Eng. *McMaster*, FEC, P.Eng.; Associate Professor, Mechanical Engineering; Associate Dean (Undergraduate Studies)

Manager, Finance and Administration

Elliott, B., B.Comm. *Memorial*

Manager, Engineering Laboratories

Pike, D., B.Eng., M.Eng. *Memorial*

Professores Emeriti

Haddara, M.R., B.Sc. *Ain-Shams*, M.S., Ph.D. *Berkeley*, C.Eng., P.Eng.

Jordaan, I.J., B.Sc.(Eng.), M.Sc.(Eng.) *Witwatersrand*, Ph.D. *London*, FRSC, P.Eng.; University Research Professor, Awarded 1997

Peters, G.R., B.Sc. *Memorial*, B.A.Sc. *Toronto*, Ph.D., *Aberdeen*, P.Eng.

Sharp, J.J., B.Sc., A.R.C.S.T., M.Sc. *Glasgow*, Ph.D. *Strathclyde*, F.I.C.E., F.C.S.C.E., F.E.I.C., P.Eng., C.Eng.

Walsh, J., B.Eng.(Hons.) *TUNS*, Ph.D. *Calgary*, P.Eng.

Honorary Research Professors

Bass, D.W., B.Sc. *Hull*, Cert.Ed. *London*, M.Phil. *Birkbeck College*, Ph.D. *Warwick*

Bruce-Lockhart, M.P., S.B., S.M., *M.I.T.*, P.Eng.; Winner of the President's Award for Distinguished Teaching, 2006-2007

Friis, D.A., B.Sc. *Newcastle*, M.B.A. *Toronto*, Siv. Ing., P.Eng.

Molgaard, J., B.Sc. *Belfast*, Ph.D. *Leeds*, P.Eng.

Seshadri, R., B.E.(Hons.) *Jabalpur*, M.Tech. *I.I.T. Madras*, M.Sc., Ph.D. *Calgary*, FCSME, FEIC, FASME, P.Eng.

Swamidas, A.S.J., B.E.(Hons.), M.Sc.(Eng.) *Madras*, Ph.D., *I.I.T. Madras*, P.Eng.

Civil Engineering Discipline

Chair

Hussein, A., B.Sc.(Eng.) *Ain Shams University*, M.Eng., Ph.D. *Memorial*, P.Eng.; Associate Professor

Professor

Husain, T., B.Sc.Eng. (Hons.) *Aligarh*, M.Eng. *AIT Bangkok*, Ph.D. *British Columbia*, P.Eng.

Associate Professors

Adluri, S.M.R., B.Tech., *J.N.T. Univ.*, M.Tech. *I.I.T. Kanpur*, M.A.Sc., Ph.D. *Windsor*

Chen, B., B.Eng. *Jilin*, M.Sc. *Peking*, Ph.D. *Regina*, P.Eng.

Coles, C.A., B.Eng., M.Eng., Ph.D. *McGill*, P.Eng.

Hawladar, B.P., B.Sc. Eng. *BUET*, M.Eng. *AIT*, Ph.D. *Yokohama National*

Kenny, S. P., B.Eng., M.Eng. *Memorial*, Ph.D. *Dalhousie*, P.Eng.

Niefer, R.A., B.Sc., Ph.D. *Windsor*

Phillips, R., B.Sc.(Hons.) *Bristol*, M.Phil., Ph.D. *Cambridge*, P.Eng.; Joint appointment with C-CORE

Snelgrove, K.R., B.Eng. *Memorial*, M.A.Sc., Ph.D. *Waterloo*, P.Eng.

Assistant Professors

Bruneau, S.E., B.Eng. *Memorial*, M.E.Sc. *U.WO*, Ph.D. *Memorial*, P.Eng.

Hassan, A.A.A., B.Sc., M.Sc. *Ain Shams University*, M.A.Sc., Ph.D. *Ryerson University*, P.Eng.

Zhang, B., B.Sc.(Hons.), M.Sc. *Jilin University*, Ph.D. *Regina*

Electrical and Computer Engineering Discipline

Chair

Peters, D.K., B.Eng. *Memorial*, M.Eng., Ph.D. *McMaster*, FEC, P.Eng., Associate Professor

Professors

Gill, E.W., B.Sc., B.Ed., M.Eng., Ph.D. *Memorial*, P.Eng.

Gosine, R.G., B.Eng. *Memorial*, Ph.D. *Cambridge*, FEC, P.Eng.;

Winner of the President's Award for Outstanding Research, 1997-1998, Petro-Canada Young Innovator Award, 1998; J.I.

Clark Chair; Associate Vice-President (Research),

Collaborations and Partnerships

Heys, H.M., B.E.Sc. *Western Ontario*, Ph.D. *Queen's*, P.Eng.

Jeyasurya, B., B.Tech. *I.I.T. Madras*, M.Tech. *I.I.T. Bombay*, Ph.D. *New Brunswick*, P.Eng.

O'Young, S.D., B.Eng. *Saskatchewan*, M.A.Sc., Ph.D. *Waterloo*, P.Eng.

Quaicoe, J.E., B.Sc. (Eng.) *Ghana*, M.A.Sc., Ph.D. *Toronto*, FEC, P.Eng.; Winner of the President's Award for Distinguished

Teaching, 2001-2002

Rahman, M.A., B.Sc.(Eng.) *Bangladesh*, M.A.Sc. *Toronto*, Ph.D.

Carleton, L.F.I.E.E.E., F.I.E.T., L.F.I.E., F.E.I.C., F.C.A.E.,

C.Eng., P.Eng.; University Research Professor, Awarded 1993

Associate Professors

Ahmed, M.H., B.Sc., M.Sc., *Ain-Shams*, Ph.D. *Carleton*, P.Eng. Dobre, O., D.Eng., Ph.D. *Poliitechnica Univeristy of Bucharest*, P.Eng.

George, G.H., B.Sc. *Southampton*, Ph.D. *Wales (U.C. Cardiff)*, Cert.Ed., (C.N.A.A.), F.R.A.S.

Iqbal, M.T., B.Sc. *UET Lahore*, M.Sc., *QAU Islamabad*, Ph.D. *Imperial College, London*, P.Eng.

Li, C., B.Eng.(Hons.), M.Eng. *Harbin Institute of Technology*, Ph.D. *Memorial*, P.Eng.

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Norvell, T.S., B.Sc.(Hons.) *Dalhousie*, M.Sc., Ph.D. *Toronto*

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Assistant Professors

Huang, W., B.S., M.S., Ph.D. *Wuhan University*, M.Eng. *Memorial*

Zhang, L., B.E., M.Sc.(Eng.) *H.U.S.T. Wuhan*, Ph.D. O-V-G *Magdeburg*

Mechanical Engineering Discipline

Chair

Krouglicof, N., B.Eng.(Hons.), Ph.D. *Concordia*; Baader-Canpolar Industrial Research Chair in Machine Vision; Associate Professor

Professors

Hinchey, M.J., B.A.Sc., M.A.Sc., Ph.D. *Toronto*, P.Eng.

Mann, G.K.I., B.Sc. *University of Moratuwa*, M.Sc. *Loughborough University of Technology*, Ph.D. *Memorial*

Muzychka, Y.S., B.Eng. *Memorial*, M.A.Sc., Ph.D. *Waterloo*, P.Eng.; Petro-Canada Young Innovator Award 2004

Sharan, A.M., B.Tech., *I.I.T. Bombay*, M.S. *Wash. State*, Ph.D. *Concordia*, P.Eng.

Associate Professors

Fisher, A.D., B.Sc. *Queen's*, M.Eng. *McMaster*, P.Eng.

Hsiao, A.C., B.Sc. *Massachusetts Institute of Technology*, M.Sc., Ph.D. *Carnegie Mellon University*, M.B.A. *Memorial*

Hookey, N.A., B.Eng. *Memorial*, M.Eng., Ph.D. *McGill*, P.Eng.

Munaswamy, K., B.E., S.V. *Univ. Tirupathy*, M.Tech., Ph.D., *IIT Madras*, P.Eng.

Rideout, D.G., B.Eng. *Memorial*, M.Sc.(Eng.) *Queen's*, Ph.D. *Michigan*, P.Eng.

Assistant Professor

Yang, J., B.Sc. *Tangshan Institute of Science and Technology*, M.Sc. *Southern Institute of Metallurgy*, Ph.D. *Tianjin University*, P.Eng.

Ocean and Naval Architectural Engineering Discipline**Chair**

Daley, C.G., B.E.Sc. *Western Ontario*, M.S.E. *Princeton*, Dr. Tech. *Helsinki*, FEC, P.Eng.; Professor

Professors

Colbourne, D.B., B.Eng. *Memorial*, S.M. *MIT*, Ph.D. *Memorial*, P.Eng.

Veitch, B.J., B.Eng., M.Eng. *Memorial*, Dr. Tech., Lic. Tech. *Helsinki*, P.Eng.; Winner of the President's Award for Outstanding Research, 2004-2005

Associate Professor

Bachmayer, R., Dipl. Ing. *Technical University Karlsruhe*, M.Sc., Ph.D. *Johns Hopkins*; Canada Research Chair in Ocean Technology, Petro-Canada Young Innovator Award, 2009
Walker, D., B.Eng., Ph.D. *Memorial*, P.Eng.

Assistant Professors

Akinturk, A., B.Sc.(Eng.) *Istanbul Technical University*, M.A.Sc. *University of Newcastle Upon Tyne*, Ph.D. *University of British Columbia*
Peng, H., B.Eng., M. A. Sc. *Dalian University of Technology*, Ph.D. *Dalhousie*, P.Eng.

Process Engineering**Chair**

Khan, F.I., B.Sc.(Eng.) *AMU*, M.E. *IIT Roorkee*, Ph.D. *Pondicherry*, P.Eng.; Professor

Professors

Butt, S.D., B.Eng., M.Sc. *Memorial*, Ph.D. *Queens*, P.Eng.
Hawboldt, K.A., B.Sc. *Saskatchewan*, M.Sc., Ph.D. *Calgary*, P.Eng.

Johansen, T.E., B.A.Sc., M.Sc., Ph.D. *University of Oslo*; Canada Research Chair in Petroleum Reservoir Engineering and Characterization

Associate Professor

Shirokoff, J.W., B.Sc.(Eng.), Ph.D. *Queen's*, P.Eng.

Assistant Professors

Alam, S., B.Sc.(Eng.) *BUET*, M.Sc., Ph.D. *Saga*, P.Eng.
Imtiaz, S., B.Sc, M.Sc. *Bangladesh University of Engineering and*

Technology, M.Sc. *Calgary*, Ph.D. *Alberta*

James, L.A., B.A.Sc.(Eng.) *University of New Brunswick*, M.A.Sc., Ph.D. *Waterloo*, E.I.T.

Zhang, Y., B.Eng., M.Eng. *Tianjin*, Ph.D. *National University of Singapore*, P.Eng.

Cross-Appointment, Adjunct, Professional Affiliate

Bose, N., B.Sc., Ph.D. *Glasgow*, F.S.N.A.M.E., C.Eng., P.Eng.; Adjunct Professor

Byrne, R., B.Sc.(Hons.), B.Eng. *Memorial*, M.Sc., Ph.C. *Victoria*; Cross Appointment (Computer Science)

Gillard, P., B.Sc., M.Sc., Ph.D. *Memorial*; Cross Appointment (Computer Science)

Hubbard, P., B.Sc.Eng., M.Sc.Eng. *Queens*, Ph.D. *McGill*; Adjunct Professor (DRDC)

Khan, A., B.Sc. *AMU*, M.Sc. *KFUPM*, Ph.D. *Memorial*, P.Eng.; Adjunct Professor (Dept. Environment and Conservation)

Kocabiyik, S., B.Sc., M.Sc. *Middle East Tech.*, Ph.D. *Western Ontario*; Petro-Canada Young Innovators Award, 2000; Cross appointment with the Department of Mathematics

Lee, K. B.Sc., *Dalhousie*, M.Sc., Ph.D. *Toronto*; Adjunct Professor (COOGER)

Liu, P., B.Eng. *Wuhan Jiao Tong*, M.Eng., Ph.D. *Memorial*; Adjunct Professor

Mak, L., B.Eng., M.Eng., M.B.A. *Memorial*; Adjunct Professor (NRC-IOT)

Marzouk, H., B.Sc. *Cairo*, M.Sc., Ph.D. *Saskatchewan*, FCSCE, P.Eng.; Adjunct Professor (Ryerson University)

McGuire, P., B.Sc. Ph.D. *Toronto*, P.Eng; Adjunct Professor (C-CORE)

Murrin, D. B.Eng., M.Eng., Ph.D. *Memorial*; Adjunct Professor (C-CORE)

Ordonez, M., Ing. *UTN*, M.Eng., Ph.D. *Memorial*; Adjunct Professor (SFU)

Williams, C., B.A.Sc.(Hons.), M.A.Sc., Ph.D. *British Columbia*; Adjunct Professor (NRC-IOT)

Office of Co-operative Education

www.mun.ca/coop/contacts/engineering.php

Co-ordinators

Hudson, J.F., B.Eng. *McGill*, P.Eng.

Jin, G., B.Eng. *Memorial*, P.Eng.

Oldford, D.B., B.Sc. *Memorial*, B.Eng. *Dalhousie*

Raheja, A., B.Eng. *Bangalore*, M.B.A. *Memorial*, Associate Director

Smith, G.S., B.Eng., M.B.A. *Memorial*

Sullivan, P., B.Eng. *Memorial*, M.B.A. *Ottawa*

Wadden, N., B.Eng. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Faculty Description

The Faculty of Engineering and Applied Science offers a co-operative undergraduate program leading to the degree of Bachelor of Engineering, as well as graduate programs leading to the degrees of Master of Engineering, Master of Applied Science, Master of Engineering Management, and Doctor of Philosophy. Through teaching, research and outreach, the Faculty of Engineering plays a critical role in the economic development of the province, and graduates from the programs hold key positions in the major industrial developments in our province. A growing number of our recent graduates are leading emerging high-technology companies and hold important positions in national and international industries and governments, contributing to the University's global impact. Research in the Faculty of Engineering and Applied Science has a strong focus on research and development opportunities associated with the general technological needs of our society. The Faculty maintains a very strong sense of identity and cooperation among students, faculty, and staff, and prides itself on its strong linkages with industry and the engineering profession.

Additional information regarding the Faculty of Engineering and Applied Science is available at www.engr.mun.ca.

Students must meet all regulations of the Faculty in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to the **UNIVERSITY REGULATIONS**.

2.1 Accreditation Status

Graduates of Memorial University of Newfoundland's engineering programs have been enjoying the benefits of full accreditation with the Canadian Engineering Accreditation Board (CEAB) since 1975. Accreditation for the Process Engineering major will be sought, in line with the normal procedures of the CEAB, in 2013.

2.2 Objectives of the Bachelor of Engineering Degree Program

The objectives of the undergraduate program are to provide students an excellent academic experience and to equip graduates with the ability to solve a broad range of problems in our rapidly changing technological, economic and social environment. To this end, the Faculty is committed to educate graduates who have:

1. a strong foundation and knowledge in engineering fundamentals with a capacity to know how, when and where to use the knowledge in specific ways;
2. an ability to identify, formulate, analyse and solve engineering problems and a capacity to integrate material from more than one subject and to apply appropriate engineering principles to arrive at correct and effective solutions;
3. a comprehensive knowledge in the fundamentals of engineering practice, including an ability to use analytical techniques, experimental and laboratory skills and modern engineering simulation and design software tools;
4. a broad knowledge of the principles and skills in engineering design, development and management in global, cultural and business contexts;
5. a multidisciplinary view with an ability to work effectively as members of teams, composed of individuals from different disciplines and different professional cultures;
6. strong oral and written communication skills with a capacity to produce effective technical documents and to use current communication techniques and tools;
7. a culture of life-long learning with a capacity to engage in continuous self-improvement, personal enrichment and professional development; and
8. a broad sense of social, ethical and professional responsibility with a capacity to demonstrate an understanding and appreciation of the human dimension of technology and its impact on mankind.

3 Description of Program

The Bachelor of Engineering Degree at Memorial University of Newfoundland is a Co-operative Program in which regular full-time academic study is supplemented by four month periods of full-time work in positions related to the student's future career. The Bachelor of Engineering degree program is available in the following six majors: Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Ocean and Naval Architectural Engineering, and Process Engineering.

Engineering One, the first-year of the engineering program, comprises courses in mathematics and basic science (physics and chemistry), as well as courses covering engineering fundamentals which are common to each of the majors. The engineering courses in Engineering One introduce students to engineering problem-solving, analysis, design, communication, and teamwork. Students will develop an understanding of the different engineering specialities, as well as the interdisciplinary nature of engineering practice.

The specialized major programs of Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Ocean and Naval Architectural Engineering, and Process Engineering are offered in academic terms 3 through 8. Students in the Mechanical Engineering major may also choose to pursue an Offshore Oil and Gas Engineering option (OOG) in the last three terms of the program. For specific details on each major, refer to the appropriate **Program Regulations**.

Electives can be tailored to meet the needs of those who plan to go straight into industry and those who wish to join the increasing number of our graduates who are pursuing advanced degrees.

All courses of the Faculty are designated by the abbreviation ENGL.

3.1 Program of Study

1. Courses in the engineering program are normally taken in blocks as shown in the appropriate program table. Students must satisfy the criteria for promotion as described below under **Promotion Regulations** to remain in the Engineering program.
2. The Engineering Program consists of eight academic terms and four work terms. The first-year of the Engineering Program, known as Engineering One, forms a core that is common to all majors. All students must successfully complete the requirements of Engineering One prior to being promoted to Academic Term 3.
3. In 1000 level Engineering courses, registration priority is given to students who have been admitted to Engineering One. Other students will be admitted to these courses only with the approval of the Associate Dean (Undergraduate Studies).
4. In these program regulations, including the program tables, wherever reference is made to English 1080 or Chemistry 1050, these courses may be replaced by courses deemed equivalent by the relevant academic unit.
5. Upon entering Academic Term 3, students begin to specialize in their academic program, in one of the following six majors: Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Ocean and Naval Architectural Engineering, or Process Engineering. All Engineering students who successfully complete the Engineering One requirements during their first year of Engineering will be guaranteed a place in Academic Term 3, although not necessarily in the preferred major as indicated under **Promotion Regulations, Promotion Status (Engineering One)**.
6. Upon entering Academic Term 6, students in the Mechanical Engineering major may choose to pursue the Offshore Oil and Gas Engineering option (OOG).
7. Engineering courses in Academic Term 3 and beyond (i.e., those with numbers 3000 and greater) are restricted to students who have been admitted or promoted to the appropriate academic term and major (e.g., Academic Term 3 for 3000 level courses, restricted by major). Other students will be admitted to these courses only with the approval of the Associate Dean (Undergraduate Studies) in consultation with the appropriate Discipline Chair.

Some of the courses offered in academic terms 3 to 8 are taken by all Engineering students, others are offered for more than one major, but most technical courses in academic terms 3 to 8 are specific to the individual majors. Students should refer to the program descriptions for the detailed course requirements in each phase of their program.

8. Technical elective courses may be offered in terms other than those indicated in the program tables.
9. A student who has previously met a technical elective requirement in a given semester or wishes to defer it, may request an exemption or deferral by applying to the Associate Dean (Undergraduate Studies), who will consult the appropriate Discipline Chair. A minimum grade of 60% is required for credit to be given towards a student's engineering program for any technical elective taken outside the normal blocks as shown in the tables.
10. Students registered in Academic Term 7 of any Engineering major are eligible to apply for admission to a **Master of Engineering** fast-track option (M.Eng.). The purpose of the option is to encourage students interested in pursuing graduate studies to begin their graduate program while still registered as an undergraduate student. While enrolled in the option, a student may complete some of the M.Eng. Degree requirements and potentially be able to graduate earlier from the M.Eng. Program. For further details and the

regulations regarding the option, refer to the **School of Graduate Studies, Regulations Governing the Degree of Master of Engineering.**

3.2 Complementary Studies

1. The Complementary Studies component has been developed to make students aware of the function and responsibilities of the Professional Engineer in society and the impact that engineering in all its forms has on environmental, economic, social and cultural aspects of our society. This complements the technical expertise and communications skills developed and practised in all components of the program.
2. The Complementary Studies component is the same for all programs and consists of a minimum of 21 credit hours as follows:
 - English 1080 or English 1020
 - Engineering 3101
 - Engineering 4102
 - One 3 credit hour course that deals with the effect of technology on society and the environment. The course is to be chosen from Engineering 6101, Sociology 2120, Philosophy 2571 or the former Philosophy 2801, Sociology 4107
 - Engineering 7102
 - One Elective course of a 3 credit hour value chosen from the arts, humanities, social sciences and management and approved by the Associate Dean (Undergraduate Studies) of the Faculty of Engineering and Applied Science. List A is an approved list of courses maintained by the Office of the Associate Dean (Undergraduate Studies) of the Faculty of Engineering and Applied Science and is available at the web site www.engr.mun.ca.
 - One Elective course of a 3 credit hour value chosen from the humanities and social sciences and approved by the Associate Dean (Undergraduate Studies) of the Faculty of Engineering and Applied Science. This course must be second-year or higher and it is intended to provide experience with the central issues, methodologies and thought processes of the humanities and social sciences. List B is an approved list of courses maintained by the Office of the Associate Dean (Undergraduate Studies) of the Faculty of Engineering and Applied Science and is available at the web site www.engr.mun.ca.
3. In order to graduate, the student must obtain an overall average of at least 60% in the 21 credit hours in Complementary Studies courses required in the program.

3.3 Bachelor of Engineering Majors

The Bachelor of Engineering degree program is available in the following six majors: Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Ocean and Naval Architectural Engineering, and Process Engineering.

3.3.1 Civil Engineering

Civil Engineering deals with the planning, design, and construction of roads, railways, harbours, docks, tunnels, bridges, buildings, water supplies, hydroelectric power development, and sewage collection, treatment, and disposal systems.

The Civil Engineering major provides a broad introduction to the scientific principles and engineering techniques necessary for an understanding of the fundamental problems tackled by civil engineers.

3.3.2 Computer Engineering

Computer Engineering is the design and analysis of computer systems applied to the solution of practical problems. It encompasses both hardware and software design in applications ranging from telecommunications and information systems to process control and avionics. Computer Engineering students learn the mathematics of discrete and continuous systems, the design of digital machines such as processors and memories, the fundamentals of software design, and the principles used in communications systems such as telephone networks and the Internet.

Computer Engineering shares many fundamentals with Electrical Engineering, which are covered in a common curriculum up to and including Academic Term 3. In recognition of the considerable diversity of careers available to computer engineers, students are given latitude in the final three academic terms to choose from a wide range of electives in various specialty areas.

3.3.3 Electrical Engineering

Electrical Engineering is a broad field encompassing the study of control systems, electromagnetics and antennas, power systems, electronics, communications, and computer hardware and software.

Electrical Engineering shares many fundamentals with Computer Engineering, which are covered in a common curriculum up to and including Academic Term 3. In recognition of the considerable diversity of careers available to electrical engineers, students are given latitude in the final three academic terms to choose from a wide range of electives in various specialty areas. Making use of their elective course choices, students in the Electrical Engineering major also have the opportunity to undertake a minor in Physics.

3.3.4 Mechanical Engineering

Mechanical engineering is a highly diversified discipline encompassing the design, analysis, testing and manufacture of products that are used in every facet of modern society. Mechanical engineers analyse and design using the principles of motion, energy, and force to ensure that the product functions safely, efficiently, reliably, and can be manufactured at a competitive cost. This activity requires a thorough knowledge of materials, mathematics, and the physical sciences, and an ability to apply this knowledge to the synthesis of economical and socially acceptable solutions to engineering problems.

Mechanical Engineering is designed to provide students with a knowledge in the following four areas: design and dynamics area, emphasizing solid mechanics, material science, dynamics, vibrations and machine component design; thermo-fluids area, focussing on thermodynamics, heat transfer and fluid mechanics; mechatronics area, dealing with electro-mechanical systems, control, robotics, and automation; and manufacturing/industrial area, which encompasses CAD/CAM, production and operation management. In Academic Term 6, students may select the Offshore Oil and Gas option (OUGE). Students may choose from a wide range of electives in various specialty areas in academic terms 7 and 8.

3.3.5 Ocean and Naval Architectural Engineering

Ocean and Naval Architectural Engineering covers aspects of both naval architecture and ocean engineering. The Ocean and Naval Architectural Engineering major is the only accredited undergraduate program specifically in naval architecture/ocean engineering in Canada. The major is designed to provide education to work in marine transport, ship and boat building, offshore engineering,

submersibles design and many related marine areas. The undergraduate program is also a comprehensive preparation for graduate studies, research and consulting in ocean engineering.

Naval Architecture is primarily concerned with the design and construction of ships, offshore structures and other floating equipment and facilities. Ocean Engineering extends this focus to cover virtually all aspects of engineering related to the world's oceans. Topics including sub-sea systems and oceanographic science add core ocean engineering content to the program. Students will be able to further develop their particular interests by using the focus stream to study any of a wide variety of topics, reflecting the tremendous diversity of the field.

A student's selection of courses for the focus stream requires the prior approval of the discipline chair of Ocean and Naval Architectural Engineering. In order to graduate, the student must obtain an overall average of at least 60% in the 12 credit hours in focus stream courses required in the program.

3.3.6 Process Engineering

Process Engineering is a diversified discipline encompassing new development, design, optimization, and operation of sustainable processes for human needs. A process engineer uses biological, chemical, and physical processing of substances to modify their nature, their properties, and/or the composition of mixtures to produce useful products. This activity requires a thorough knowledge of materials, chemical and physical sciences, and mathematics and an ability to apply this knowledge in an economical and sustainable way to engineering development.

The process engineering major is designed to provide students with a specialization in the areas of minerals and metals processing, and downstream oil and gas processing. Throughout the major and within each area of specialization, emphasis is placed on green and clean processes which are environmentally benign and inherently safe. The goal of this major is to prepare graduates with knowledge and ability to implement this knowledge in a sustainable manner to larger-scale industrial development.

3.4 Work Terms

Engineering work term registration, grading, and tuition fee charges and payments are governed by the **UNIVERSITY REGULATIONS** in this Calendar and those outlined below. Engineering work term placement and opt-outs, conduct, and evaluation are governed by the *Engineering Student Co-op Handbook* which is available at www.mun.ca/coop/home/enghandbook.pdf.

Students must complete successfully a minimum of four work terms in order to graduate with a Bachelor of Engineering degree. The Bachelor of Engineering degree offers the opportunity to complete up to five work terms beyond academic term 3. Students are expected to complete as many of these work terms as possible. Students who expect to complete the Engineering One requirements by the end of the Winter semester may apply to the Committee on Undergraduate Studies to undertake a work term during the Spring semester of Engineering One. Academic performance is the basis for approving such requests.

All students in academic terms 3 to 7 and any student approved to complete a work term during the Spring semester of Engineering One will be registered automatically during the regular registration period for the next scheduled work term unless the student has opted-out. Students may opt out of up to two work terms beyond Academic Term 3 by completing the procedures outlined in the *Engineering Student Co-op Handbook*. Opt outs normally are approved only in cases where students have successfully completed a minimum of four work terms.

3.4.1 General Information

- During work terms students are brought into direct contact with the engineering profession, exposed to the work place setting, expected to assume ever-increasing responsibility in employment situations as their education advances, and introduced to experiences beyond the scope of those which could be provided in the classroom.
- Students are responsible for finding suitable work placements. The Division of Co-operative Education provides resources to assist in this process.
- Students who cannot meet the demands of the work term may be required by the Faculty to withdraw from the work term until they can demonstrate an ability to continue in the program.
- Following the date of automatic registration for a work term, only students who are registered for that work term will be approved to join the job placement process and be approved to begin a work placement
- Students are not permitted to drop work terms without prior approval of the Committee on Undergraduate Studies, on the recommendation of the Division of Co-operative Education. Students who drop a work term without permission, or who fail to honour an agreement to work with an employer, will be assigned a grade of FAL (fail) for that work term.
- Students who conduct themselves in such a manner as to cause their termination from the job, will be assigned a grade of FAL (fail) for that work term.

3.4.2 Evaluation of Work Terms

Two components are considered in work term evaluation: work performance and a communications component, as described in the *Co-operative Student Handbook* which is available at www.mun.ca/coop/home/enghandbook.pdf.

Each component is evaluated separately and equally weighted resulting in one of the following classifications: Outstanding, Above Expectations, Satisfactory, Marginal Pass, Fail. Both evaluations will be recorded on the transcript. Overall evaluation of the work term will result in the assignment of one of the following final grades:

- Pass with distinction (PWD): To receive a PWD, a student must obtain an evaluation of Outstanding in both the communications and work performance components of the work term.
- Pass (PAS): To receive a PAS, a student must achieve an evaluation of Marginal Pass or better in the communications component and in the performance component of the work term.
- Fail (FAL): A student receiving a Fail in either the communications or performance component of the work term will receive a FAL. For promotion from the work term, a student must obtain PWD or PAS.

3.5 Continuing Engineering Education

The Faculty of Engineering and Applied Science has a firm commitment to continuing engineering education and offers a variety of seminars and short courses in St. John's and in other centres for practising engineers. For applicability of courses towards diplomas and certificates in Engineering, contact the Continuing Engineering Education office by telephone to (709) 864-7467, in-person at EN 3017, or through the website at www.engr.mun.ca/continuing/index.php.

4 Admission/Readmission Regulations for the Faculty of Engineering and Applied Science

In addition to meeting **UNIVERSITY REGULATIONS**, students must meet the admission/readmission regulations for the Faculty of Engineering and Applied Science.

4.1 General Information

1. Entry to Engineering One and to the majors offered by the Faculty is competitive for a limited number of placements. Meeting the minimum admission requirements does not guarantee acceptance into the Engineering program. The final decision on admission or readmission to Engineering One or any engineering major rests with the Admissions Committee of the Faculty.
2. Admission or readmission to the University does not necessarily constitute admission or readmission to Engineering One or to any major.
3. The primary criterion used in reaching decisions on applications for admission or readmission is the Admission Committee's judgement of the likelihood of an applicant succeeding in the program.

4.2 Application Forms and Deadlines

1. The program of the Faculty commences in the Fall semester. The deadline for application for admission is March 1. Students are encouraged to submit their applications as early as possible since the Faculty may begin to offer provisional admissions as early as February to students applying to begin their program in September.
2. The deadline for application for readmission, for students who were previously admitted to a Faculty program, is June 1 for the Fall semester, October 1 for Winter, and February 1 for Spring.
3. Applications received after the relevant deadline may be considered as time and space permit. Incomplete applications will not be considered.
4. Application forms are available in person from the Faculty's General Office and the Office of the Registrar or through the Faculty's website at www.engr.mun.ca. Application forms may also be obtained by writing to the Faculty of Engineering and Applied Science, Memorial University of Newfoundland, St. John's, NL, A1B 3X5, or to the Office of the Registrar, Admissions Office, Memorial University of Newfoundland, St. John's, NL, A1C 5S7.
5. All applications for admission or readmission must be submitted to the Office of the Registrar. A complete application package includes an application to the University (for those who have not attended Memorial University of Newfoundland in the two preceding semesters), an application to the Faculty and any other required supporting documentation. Application fees must be paid when the application forms are submitted.

4.3 Admission Requirements to the Faculty Program

Applicants may apply for admission to the University in a category as defined in the Calendar section under **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate), Categories of Applicants, Admission Criteria and Other Information**. In addition to meeting these regulations, applicants to the faculty program in the following categories must meet the requirements as indicated below.

4.3.1 High School Applicants

- The Faculty of Engineering and Applied Science encourages applications from high school students who have an interest in pursuing an engineering degree and who have achieved a good academic performance during high school.
- High school applicants admitted to the program who are admissible to the required Engineering One courses Mathematics 1000, Physics 1050, and Chemistry 1050 are expected to be able to complete the Engineering One requirements during their first two semesters at Memorial University of Newfoundland.
- High school applicants who are not admissible to these courses, but who are interested in pursuing an engineering degree, are encouraged to apply to the Faculty and to discuss an appropriate first-year program with the Associate Dean (Undergraduate Studies).

4.3.2 Memorial University of Newfoundland Applicants

- To be eligible for consideration for admission to Engineering One, students who are attending or have previously attended this University must have a cumulative average of at least 60% or an average of at least 65% on their most recent 30 attempted credit hours and be admissible to (or have previously completed) the Engineering One courses Mathematics 1000, Physics 1050 and Chemistry 1050.
- To be eligible for consideration for admission to Academic Term 3, students who are attending or have previously attended this University must meet the requirements stated in the **Promotion Regulations, Promotion Status (Engineering One)**.

4.3.3 Transfer Applicants

- Applicants seeking admission through transfer from accredited post-secondary institutions must have achieved a minimum overall average of 60% to be considered for admission.
- A student's placement within a program, and requirements needed to complete the program, will be determined on an individual basis at the time of admission. Transfer applicants must complete a majority of the credit hours in their program at Memorial University of Newfoundland.

4.4 Other Information

1. The Faculty will notify applicants in writing regarding an admission decision to the Faculty program.
2. Students admitted to the program in any term, without receiving credit for all courses required up to that level, must successfully complete those courses prior to graduation.
3. Students who have been admitted to one major offered by the Faculty and who wish to change to another major within the Faculty must submit a new application for admission to the program. This application must be submitted to the Office of the Registrar by the appropriate deadline date as outlined above in **Application Forms and Deadlines** and will be considered in competition with all other applications.

4. Students admitted full-time to the program and who decline the offer of admission or who fail to register for the appropriate courses during the term of admission will be considered withdrawn from the program. Such students, if they subsequently wish to be considered for admission, must submit a new application for admission to the program. This application must be submitted to the Office of the Registrar by the appropriate deadline date in **Application Forms and Deadlines** above and will be considered in competition with other applications.

5 Program Regulations

5.1 Civil Engineering Program Regulations

5.1.1 Civil Engineering Major

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Civil Engineering Major, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms and order as set out in **Table 1 Civil Engineering Major**.
- Work terms shall normally be taken in the order as set out in **Table 1 Civil Engineering Major**.

Table 1 Civil Engineering Major

Term	Required Courses	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	ENGI 3101 ENGI 3425 ENGI 3610 ENGI 3703 ENGI 3731 ENGI 3934	ENGI 200W (if not completed during Engineering One).
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4102 ENGI 4312 ENGI 4421 ENGI 4425 ENGI 4717 ENGI 4723	
Fall	001W or 002W or 003W	
Winter Academic Term 5	ENGI 5312 ENGI 5434 ENGI 5706 ENGI 5713 ENGI 5723	Complementary Studies Elective
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6322 ENGI 6705 ENGI 6707 ENGI 6713	Complementary Studies Elective 3 credit hours from: ENGI 6718, 6749
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 7102 ENGI 7704 ENGI 7713 ENGI 7745 ENGI 7748	3 credit hours from: ENGI 7706, 7707, 7716, 7723, 8671, 8691, 8692 or other courses as specified by the Discipline Chair
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8700 ENGI 8740 ENGI 8751	Complementary Studies Elective 6 credit hours from: ENGI 8670, 8676, 8690, 8705, 8708, 8713, 8717, other courses as specified by the Discipline Chair

5.2 Computer Engineering Program Regulations

5.2.1 Computer Engineering Major

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Computer Engineering Major, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms and order as set out in **Table 2 Computer Engineering Major**.
- Work terms shall normally be taken in the order as set out in **Table 2 Computer Engineering Major**.

Table 2 Computer Engineering Major

Term	Required Courses	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	ENGI 3101 ENGI 3424 ENGI 3821 ENGI 3861 ENGI 3891 Physics 3000	ENGI 200W (if not completed during Engineering One).
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4102 ENGI 4424 ENGI 4823 ENGI 4854 ENGI 4862 ENGI 4892	
Fall	001W or 002W or 003W	
Winter Academic Term 5	ENGI 5420 ENGI 5821 ENGI 5854 ENGI 5865 ENGI 5895	Complementary Studies Elective
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6861 ENGI 6871 ENGI 6876 ENGI 6892	Complementary Studies Elective 3 credit hours from: ENGI 6855 or other courses as specified by the Discipline Chair
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 7102 ENGI 7804 ENGI 7824 ENGI 7894	6 credit hours from: ENGI 7814, 7825, 7854, 7855, 7952, 8680, other courses as specified by the Discipline Chair
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8854 ENGI 8894	Complementary Studies Elective One free elective which must be a 5000-level or higher Engineering course, or a 2000-level or higher course either from the Faculty of Arts or the Faculty of Science, or a 3000-level or higher course from the Faculty of Business Administration. Selection of a course must be approved by the Discipline Chair. 6 credit hours from: ENGI 7680, 8821, 8826, 8863, 8868, 8879, 8801-8805, or other courses as specified by the Discipline Chair

5.3 Electrical Engineering Program Regulations

5.3.1 Electrical Engineering

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Electrical Engineering Major, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms and order as set out in **Table 3 Electrical Engineering Major**.
- Work terms shall be taken in the order as set out in **Table 3 Electrical Engineering Major**.
- The requirements for a minor in Physics in the Electrical Engineering program are detailed under **Faculty of Science, Minor In Physics**. Students wishing to undertake a minor in Physics must obtain approval from the Discipline Chair for their course selection.

Table 3 Electrical Engineering Major

Term	Required Course	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	ENGI 3101 ENGI 3424 ENGI 3821 ENGI 3861 ENGI 3891 Physics 3000	ENGI 200W (if not completed during Engineering One).
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4102 ENGI 4430 ENGI 4823 ENGI 4841 ENGI 4854 ENGI 4862	
Fall	001W or 002W or 003W	
Winter Academic Term 5	ENGI 5420 ENGI 5800 ENGI 5812 ENGI 5821 ENGI 5854	Complementary Studies Elective
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6813 ENGI 6843 ENGI 6855 ENGI 6871	Complementary Studies Elective 3 credit hours from: ENGI 6856, 6876, other courses as specified by the Discipline Chair
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 7102 ENGI 7803 ENGI 7824	9 credit hours from: ENGI 7811, 7825, 7844, 7854, 7855, 7856, 7952, 8680, other courses as specified by the Discipline Chair
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8826 ENGI 8853	Complementary Studies Elective One free elective which must be a 5000-level or higher Engineering course, or a 2000-level or higher course either from the Faculty of Arts or the Faculty of Science, or a 3000-level or higher course from the Faculty of Business Administration. Selection of a course must be approved by the Discipline Chair. 6 credit hours from: ENGI 5865, 7680, 8821, 8845, 8879, 8806-8809, other courses as specified by the Discipline Chair

5.4 Mechanical Engineering Program Regulations

5.4.1 Mechanical Engineering Major - General Option

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Mechanical Engineering Major - General Option, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms and order as set out in **Table 4 Mechanical Engineering Major - General Option**.
- Work terms shall normally be taken in the order as set out in **Table 4 Mechanical Engineering Major - General Option**.

Table 4 Mechanical Engineering Major - General Option

Term	Required Courses	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	ENGI 3101 ENGI 3424 ENGI 3901 ENGI 3911 ENGI 3934 ENGI 3941	ENGI 200W (if not completed during Engineering One).
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4102 ENGI 4312 ENGI 4430 ENGI 4901 ENGI 4932 ENGI 4951	
Fall	001W or 002W or 003W	
Winter Academic Term 5	ENGI 5911 ENGI 5927 ENGI 5931 ENGI 5951 ENGI 5961	Complementary Studies Elective
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6901 ENGI 6927 ENGI 6933 ENGI 6951 ENGI 6961	Complementary Studies Elective
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 4421 ENGI 7102 ENGI 7926 ENGI 7928	6 credit hours from: ENGI 7901, 7903, 7911, 7934, 7952, other courses as specified by the Discipline Chair
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8926	Complementary Studies Elective One free elective which must be a 5000-level or higher Engineering course, or a 2000-level or higher course either from the Faculty of Arts or the Faculty of Science, or a 3000-level or higher course from the Faculty of Business Administration. Selection of a course must be approved by the Discipline Chair. 9 credit hours from: ENGI 8903, 8911, 8933, 8935, 8937, 8945, 8964, other courses as specified by the Discipline Chair

5.4.2 Mechanical Engineering Major - Offshore Oil and Gas Engineering Option

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Mechanical Engineering Major – Offshore Oil and Gas Engineering Option, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms and order as set out in **Table 5 Mechanical Engineering Major - Offshore Oil and Gas Option**.
- Work terms shall normally be taken in the order as set out in **Table 5 Mechanical Engineering Major - Offshore Oil and Gas Option**.

Table 5 Mechanical Engineering Major - Offshore Oil and Gas Engineering Option

Term	Required Courses	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	ENGI 3101 ENGI 3424 ENGI 3901 ENGI 3911 ENGI 3934 ENGI 3941	ENGI 200W (if not completed during Engineering One).
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4102 ENGI 4312 ENGI 4430 ENGI 4901 ENGI 4932 ENGI 4951	
Fall	001W or 002W or 003W	
Winter Academic Term 5	ENGI 5911 ENGI 5927 ENGI 5931 ENGI 5951 ENGI 5961	Complementary Studies Elective
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6602 ENGI 6901 ENGI 6927 ENGI 6933 ENGI 6951 ENGI 6961	
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 4421 ENGI 7102 ENGI 7926 ENGI 8693	Complementary Studies Elective 3 credit hours from: ENGI 8671, 8692
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8690 ENGI 8694 ENGI 8926	Complementary Studies Elective 3 credit hours from: ENGI 8903, 8911, 8935, 8945, 8964, other courses as specified by the Discipline Chair 3 credit hours from: ENGI 8670, 8676

5.5 Ocean and Naval Architectural Engineering Program Regulations

5.5.1 Ocean and Naval Architectural Engineering Major

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Ocean and Naval Architectural Engineering Major, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms in the academic terms order as set out in **Table 6 Ocean and Naval Architectural Engineering Major**.
- Work terms shall normally be taken in the order as set out in **Table 6 Ocean and Naval Architectural Engineering Major**.

Table 6 Ocean and Naval Architectural Engineering Major

Term	Required Courses	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	ENGI 3001 ENGI 3054 ENGI 3101 ENGI 3901 ENGI 3934 Mathematics 2000	ENGI 200W (if not completed during Engineering One).
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4011 ENGI 4020 ENGI 4102 ENGI 4312 Mathematics 3260	Focus Stream Elective *
Fall	001W or 002W or 003W	
Winter Academic Term 5	ENGI 5003 ENGI 5020 ENGI 5022 Mathematics 3202	Complementary Studies Elective Focus Stream Elective *
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6003 ENGI 6005 ENGI 6055 ENGI 6933	Complementary Studies Elective Focus Stream Elective *
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 7000 ENGI 7007 ENGI 7033 ENGI 7035 ENGI 7102	ENGI 7045, 7706, 7707, 7934, 8691, 8692, other courses as specified by the Discipline Chair
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8000 Physics 4300	Complementary Studies Elective Two of ENGI 8003, 8054, 8058, 8074, or other courses as specified by the Discipline Chair Focus Stream Elective *

***Focus Stream Electives:**

The courses in the Focus Stream allow a student to pursue a specialization in an area of interest. The area can be in engineering, the sciences, the arts and humanities or business. Students will plan their own focus stream, with approval by the Committee on Undergraduate Studies upon the recommendation of the Discipline Chair of Ocean and Naval Architectural Engineering.

In reviewing the plan for the stream, the Faculty will be looking for clear educational goals by each student, with increasingly advanced courses in the topic area. The stream is not meant to be a series of random free electives, and especially not a series of introductory courses. The stream will enable students to complete a significant part of a minor in almost any subject. Students are encouraged to take the required additional courses to complete such a minor. Interdisciplinary experience and education is increasingly valuable and this focus stream opportunity will provide our graduates with unique and special knowledge.

5.6 Process Engineering Program Regulations

5.6.1 Process Engineering Major

- The full-time 141 credit hour Bachelor of Engineering (Co-operative), Process Engineering Major, requires eight academic terms and four work terms.
- The 141 credit hours shall normally be taken in the academic terms and order as set out in **Table 7 Process Engineering Major**.
- Work terms shall normally be taken in the order as set out in **Table 7 Process Engineering Major**.

Table 7 Process Engineering Major

Term	Required Courses	Elective Courses
Engineering One	Chemistry 1050 English 1080 ENGI 1010 ENGI 1020 ENGI 1030 ENGI 1040 Mathematics 1000 Mathematics 1001 Mathematics 2050 Physics 1050 Physics 1051	Students who are expecting to complete the Engineering One requirements during the first two semesters may apply to undertake a work term during the Spring semester. In this case, the prerequisite course ENGI 200W must be completed during the Winter semester.
Fall Academic Term 3	Chemistry 1051 ENGI 3101 ENGI 3424 ENGI 3600 ENGI 3901 ENGI 3911	ENGI 200W (if not completed during Engineering One)
Winter	001W or 002W	
Spring Academic Term 4	ENGI 4102 ENGI 4421 ENGI 4602 ENGI 4621 ENGI 4625 ENGI 4717	
Fall	001W OR 002W OR 003W	
Winter Academic Term 5	ENGI 5601 ENGI 5621 ENGI 5671 ENGI 5911 ENGI 5961	Complementary Studies Elective
Spring	002W or 003W or 004W	
Fall Academic Term 6	ENGI 6631 ENGI 6651 ENGI 6671 ENGI 6901 ENGI 6961	Complementary Studies Elective
Winter	003W or 004W or 005W (optional)	
Spring Academic Term 7	ENGI 7102 ENGI 7621 ENGI 7623 ENGI 7640 ENGI 7651	3 credit hours from ENGI 7691, 8691, other courses as specified by the Discipline Chair
Fall	004W or 005W (optional) or 006W (optional)	
Winter Academic Term 8	ENGI 8640 ENGI 8671 ENGI 8677	Complementary Studies Elective One free elective which must be a 5000-level or higher Engineering course, or a 2000-level or higher course either from the Faculty of Arts or the Faculty of Science. or a 3000-level or higher course from the Faculty of Business Administration. Selection of a course must be approved by the Discipline Chair. 3 credit hours from: ENGI 8911, 8670, 8676, 8696. other courses as specified by the Discipline Chair.

5.7 Advanced Standing

Students are occasionally admitted to later terms in Engineering from other institutions. Such entry is normally based on a detailed analysis of the student's record and is handled on a case-by-case basis. Such students should contact the Office of the Associate Dean (Undergraduate Studies).

6 Promotion Regulations

6.1 General Information

1. In addition to meeting the promotion regulations for the Faculty of Engineering and Applied Science, all students must meet the general academic regulations (undergraduate). For further information refer to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.
2. Success in the programs depends on meeting the requirements of both academic terms and work terms.

6.2 Promotion Status (Engineering One)

1. The requirements for promotion to Academic Term 3 are:
 - a. an overall average of at least 65% on the following nine courses: Mathematics 1001, Mathematics 2050, Physics 1051, Chemistry 1050, English 1080 (or equivalent), ENGI 1010, ENGI 1020, ENGI 1030 and ENGI 1040; and
 - b. a grade of at least 55% in each of the above nine courses.
2. In order to remain in the Engineering program, students admitted to Engineering One must complete the requirements for promotion to Academic Term 3 before the end of the academic year of admission.
3. Students who fail to meet the requirements for promotion to Academic Term 3 before the end of the academic year of admission will be deemed to have withdrawn from the Engineering program.
4. Promotion from Engineering One guarantees admission to one of the six majors, but not necessarily to a student's preferred major. The Faculty reserves the right to limit the number of spaces available in each major. The Faculty also reserves the right to guarantee admission into a particular major at the time of admission into the Engineering program.
5. Students completing the requirements of Engineering One are required to apply for their major by March 1 of the academic year of admission, indicating their preferences for major in rank order. All Engineering students who successfully complete Engineering One in the academic year of admission will be guaranteed a place in Academic Term 3, although not necessarily in the preferred major.

6.3 Promotion Status (Beyond Engineering One)

A student's eligibility for promotion from semesters beyond Engineering One will be determined at the end of each term. Promotion from each academic semester will be based upon the student's Promotion Average for the semester. The Promotion Average, which will appear on the transcript, is calculated to be the overall average of courses completed in the semester excluding complementary studies, focus stream electives and free elective courses. Promotion from work terms will be determined based upon the grade awarded in that work term.

A student's promotion status will be determined beyond Engineering One and at the end of each term in one of the following three categories:

6.3.1 Clear Promotion

Clear Promotion means that a student can proceed to the next term without restrictions.

1. A student completing or repeating an academic term will receive a Clear Promotion by obtaining a promotion average of at least 60% and a numeric grade of at least 50% in each of the courses included in the calculation of the promotion average in that academic term.
2. A student completing a work term will receive a Clear Promotion by obtaining an overall grade of PAS or PWD in that work term.

6.3.2 Probationary Promotion

A student who is not eligible for Clear Promotion from an academic semester but who achieves a promotion average of at least 60% in that term will be granted Probationary Promotion.

1. A student's Probationary Promotion status will be reflected on the University Transcript under the Promotion Average for the semester.
2. A student with Probationary Promotion from an academic term may continue to the subsequent work term under the condition that entry into the next academic term is not allowed until the student's status is changed to Clear Promotion.
3. A student with Probationary Promotion at the end of the final academic term will not be recommended for graduation until the student's status is changed to Clear Promotion.
4. To change Probationary Promotion to Clear Promotion for a semester the student must satisfy the Faculty that he or she is competent in the subject of the ENGI course(s) in which the student has failed to achieve 50%. This will normally entail re-examination(s), after which the student will be declared to have passed or failed a test of competency in the subject(s) concerned. No numerical grade will be assigned in the re-examination(s). Upon passing a re-examination, the original grade submitted for the course will be changed to PAS, but the promotion average will not change.
5. Re-examination will be at a time determined by the Faculty.
6. A student with Probationary Promotion who does not complete the re-examination(s) or who fails in the re-examination(s) must repeat the corresponding failed course(s) successfully in order to change the Probationary Promotion to Clear Promotion.

6.3.3 Promotion Denied

Promotion Denied status is awarded when a student does not meet the requirements for Clear Promotion or Probationary Promotion.

The student's Promotion Denied status will be reflected on the University Transcript under the Promotion Average for the semester.

1. A student with Promotion Denied status will be required to withdraw from the Faculty.
2. A student with Promotion Denied status may apply for readmission to the program after two semesters. Subject to space being available, a student will be readmitted into the term from which promotion was denied. An academic term may be repeated only

once, and not more than two academic terms may be repeated in the entire program.

3. A student who is denied promotion for failing a work term may be considered for readmission. A student readmitted under this clause must successfully complete four work terms prior to graduation.
4. A student who has been denied promotion as a result of having failed a work term and who, in the opinion of the Faculty, can benefit from a remedial program, may be permitted an extension of time, not to exceed the end of the registration period of the subsequent semester, to complete the requirements of the work term.
5. A student who is denied promotion from an academic term will be required to repeat all required courses in which the student obtained a numeric grade of less than 60% in that term. A technical elective course in which the student obtained a numeric grade of less than 60% may be replaced by a course acceptable in the student's program.
6. A student with Promotion Denied status at the end of the final academic term will not be recommended for graduation until the student's status is changed to Clear Promotion.

6.4 Other Information

1. The appropriate discipline will make a recommendation to Faculty Council on each student's promotion status at the end of each of academic terms 3 to 8.
2. To be recommended for graduation, a student must have clear promotion from Academic Term 8, must have successfully completed at least four work terms and must have an average of at least 60% in the 21 credit hours in complementary studies as described in **Description of Program, Complementary Studies**.
3. The Office of Co-operative Education will make a recommendation to Faculty Council on each student's promotion status at the end of each work term.
4. A student must have completed at least one work term successfully, in order to be promoted to Academic Term 5.
5. A student must have completed at least two work terms successfully, in order to be promoted to Academic Term 6.
6. A student must have completed at least three work terms successfully, in order to be promoted to Academic Term 7.
7. A student must have completed four work terms successfully, in order to be promoted to Academic Term 8.
8. A student denied promotion shall be permitted only one readmission to the same term and a total of no more than two readmissions to the Faculty.
9. No course required in any of academic terms 3 to 8 of the program may be attempted more than twice.
10. Students may be required to withdraw from their program at any time, if, in the opinion of the Faculty, they are unlikely to benefit from continued attendance.

7 Waiver of Faculty Regulations

Every student has the right to request a waiver of Faculty regulations. Students seeking a waiver of University academic regulations should refer to the **UNIVERSITY REGULATIONS - General Academic Regulations Undergraduate - Waiver of Regulations**.

1. The Faculty Council reserves the right in special circumstances to modify, alter, or waive any Faculty regulation in its application to individual students, where merit and equity so warrant in the judgment of the appropriate Committee of the Faculty Council.
2. All requests must be submitted to the Office of the Associate Dean (Undergraduate Studies) for submission to the appropriate Committee of the Faculty. Students must submit their request in writing. Medical and/or other documentation to substantiate the request must be provided.
3. Requests for waivers of admission requirements will be submitted to the Admissions Committee who will make a recommendation for action to the Committee on Undergraduate Studies of the Faculty.
4. Requests for a waiver of a course(s) required in academic terms 3 to 8 should be made prior to the commencement of the academic term and will be considered by the Committee on Undergraduate Studies, upon recommendation of the appropriate Discipline Chair.
5. Requests for a waiver of a work term will be considered by the Committee on Undergraduate Studies upon recommendation of the Office of Co-operative Education. Any waiver granted does not reduce the total number of work terms required for the degree below an absolute minimum of three.

8 Appeal of Regulations

8.1 Faculty Appeal Committee

Appeals against decisions of the Faculty Admissions Committee and appeals against promotion decisions of Faculty Council will be considered by the Faculty Appeal Committee.

1. An appeal against promotion decisions of Faculty Council will normally only be considered upon presentation of evidence which has not been placed before Faculty Council.
2. Any such appeal must be made within one month of the issue of the decision of the Admission Committee or within one month of the issue of results by the Registrar, as the case may be.
3. When a student has requested a re-read of an examination paper which may affect an appeal that appeal must nevertheless be made within one month of the issue of the original results, and consideration of the appeal will be delayed until the result of the re-read is available.

8.2 Other Appeals

Any student whose request for waiver of Faculty regulations has been denied has the right to appeal. For further information refer to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

9 Course Descriptions

All courses of the Faculty are designated by ENGI.

9.1 Work Terms and Non-Credit Courses

001W Engineering Work Term 1 represents, for most students, their first experience in an engineering or related work environment. Students are expected to learn, develop and practise the basic standards of behaviour, discipline and performance normally found in a professional work environment. Students are also expected to learn the basics of technical writing and to become familiar with the various communications tools used in a technical work environment.

Two documents must be submitted for evaluation for the communications component for Work Term 1. Additional communication requirements such as technical reports or manuals may be requested by the employer. The two documents to be submitted to the Engineering Co-operative Education Office are the Personal Job Diary and the Work Term Journal or Short Technical Report or Portfolio. Detailed guidelines for the preparation of these documents are provided in the *Co-operative Student Handbook*. These documents shall be submitted or postmarked no later than the last official day of the work term as shown in the University Calendar.

CH: 0
LC: 0
PR: ENGI 200W

002W Engineering Work Term 2 requires students to have sufficient academic grounding and work experience to contribute in a positive manner to the engineering design and problem solving processes practised in the work environment. Students are expected to show greater independence and responsibility in their assigned work functions than in Work Term 1. An ability to deal, under supervision, with complex work-related concepts and problems should also be demonstrated. Students can become better acquainted with their chosen discipline, and can observe and appreciate the attitudes, responsibilities, and ethics normally expected of engineers.

The communications component for Work Term 2 consists of a formal, descriptive technical report describing a technical process, project, procedure or investigation chosen from the student's work environment. Students are also expected to keep a job diary, which will not be submitted but must be available for review during monitoring.

Guidelines for the preparation of a descriptive technical report are provided in the *Co-operative Student Handbook*. The report shall be submitted or postmarked no later than the last official day of the work term as shown in the University Calendar.

CH: 0
LC: 0
PR: ENGI 001W, ENGI 3101

003W Engineering Work Term 3 requires greater participation in the student's selected engineering discipline. Students become more experienced and proficient with the appropriate design procedures than in the preceding work terms. Students are expected to acquire improved speed and accuracy in their work, and at the same time accept greater responsibility and be able to function with less direct supervision. Self-confidence and initiative as well as improved analytical skills are expected to develop at this stage in the student's engineering education.

The communications component for Work Term 3 consists of a formal technical report on a topic related to a specific theme prescribed by the Faculty and the Co-operative Education Office. Examples of themes would be sustainable development and environmental stewardship. Ideally the report would relate to the student's work in the areas of process, project, procedure or investigation.

Guidelines for the preparation of a descriptive technical report are provided in the *Co-operative Student Handbook*. The report shall be submitted or postmarked no later than the last official day of the work term as shown in the University Calendar.

CH: 0
LC: 0
PR: ENGI 002W

004W Engineering Work Term 4 requires students to engage in various facets of engineering, such as design, analysis, project management, specifications, plans, formal proposals, tender documents, etc. Participation in their selected engineering discipline is expected. Students should continue to gain an appreciation of the use and importance of acquired analytical skills in engineering analysis as well as the application of specifications and codes. Students should have a level of responsibility commensurate with their academic background and experience.

The communications component for Work Term 4 consists of an oral presentation on a technical subject taken from the student's work environment and preferably related specifically to the student's work. The presentation should be of 10 minutes duration and will be given on campus in a formal setting after students have returned to class. A written summary is also required. Guidelines for the preparation of this oral presentation are provided in the *Co-operative Student Handbook*.

CH: 0
LC: 0
PR: ENGI 003W

005W Engineering Work Term 5 requires students to engage in various facets of engineering, such as design, analysis, project management, specifications, plans, formal proposals, tender documents, etc. Participation in their selected engineering discipline is expected. Students should continue to gain an appreciation of the use and importance of acquired analytical skills in engineering analysis as well as the application of specifications and codes. Students should have a level of responsibility commensurate with their academic background and experience. The promotion criteria for this work term will be determined by the Committee on Undergraduate Studies. Students in the new program can apply to enter Work Terms 5 and 6.

CH: 0
LC: 0
PR: ENGI 004W

006W Engineering Work Term 6 requires students to engage in various facets of engineering, such as design, analysis, project management, specifications, plans, formal proposals, tender documents, etc. Participation in their selected engineering discipline is expected. Students should continue to gain an appreciation of the use and importance of acquired analytical skills in engineering analysis as well as the application of specifications and codes. Students should have a level of responsibility commensurate with their academic background and experience. The promotion criteria for this work term will be determined by the Committee on Undergraduate Studies. Students in the new program can apply to enter Work Terms 5 and 6.

CH: 0
LC: 0
PR: ENGI 005W

200W Professional Development Seminars are offered during the Fall and Winter semesters prior to a student's first work term. These seminars introduce the co-operative education process and prepare the student for work terms. These seminars are graded PAS or FAL based on attendance, participation and assignments.

AR: attendance is required
CH: 0
LC: as scheduled

9.2 Engineering One Courses

1010 Engineering Statics is the first course in Engineering mechanics. Forces and moments are described with vector algebra, leading to a description of the equilibrium conditions for particles and solid bodies. The importance of free body diagrams is highlighted. This knowledge is then applied to the analysis of trusses, frames and machines. Additional topics include an examination of friction and the concepts of centre of force, centroids and second moments of area.

CO: Mathematics 1000
CR: the former ENGI 1313
OR: tutorial 1 hour per week
PR: Level III Physics or Physics 1020 or equivalent

1020 Introduction to Programming is an introduction to algorithmic problem solving techniques and computer programming, including basic program control structures (sequence, call, branch, loop) and data representations, functional decomposition, and design by contract. Exercises and examples are drawn from a variety of engineering disciplines and are implemented using a standard modern programming language.

CR: the former ENGI 2420
LH: at least four 2-hour sessions per semester
PR: eligibility to register for Mathematics 1000

1030 Engineering Graphics and Design provides two complementary competencies. Firstly, it provides an introduction to the fundamentals of graphic communication, including orthographic projections, three dimensional pictorials, sectioning and dimensioning. Both sketching and CAD are utilized. Secondly, the course introduces students to standard design methodologies. The graphics and design competencies are reinforced through lab and project exercises.

LH: 3
PR: eligibility to register for Mathematics 1000

1040 Mechanisms and Electric Circuits is offered in two serial modules, including laboratory and workshop practice, and a team project to expose students to the concept of system integration involving electrical and mechanical systems. The electrical module provides an introduction to dc circuits, with an analysis of dc circuits used in control, measurement and instrumentation systems. The mechanism module provides an introduction

to machine components such as belts, pulleys, gears, and simple linkages. The laboratory and workshop component introduces students to hands-on practice in basic laboratory instruments, tools and safety procedures. A team project involves the construction, assembly and testing of a simple mechanism.

LH: 3

PR: Level III Physics or Physics 1051 (which may be taken concurrently) and Mathematics 1000 (which may be taken concurrently).

9.3 Academic Term 3 Courses

3001 Ocean/Naval Design is an introductory course to design in naval architecture and ocean engineering. It introduces the design challenges in a marine setting. A series of modules will familiarize the students with the main design issues. The first module covers the basic economic question of why ships are built. This is followed by an examination of the materials of construction and the primary fabrication method – welding. The third module deals with manufacturing, including design for manufacturing and the workflow process itself. The final module examines methods of marine design and performance evaluation. This covers numerical and experimental simulation methods and design software. There are several relevant labs and a design project.

LH: at least six 3-hour laboratory sessions per semester

3054 Ocean Engineering Hydrostatics is an introductory course to naval architecture and marine engineering. It discusses the basic principles of the statics of rigid floating or submerged structures. These include: ships, offshore platforms and submersibles. Methods of analysis of the hydrostatics, stability and trim, damage stability and the statics of mooring systems are introduced. Applications are also discussed.

LH: at least nine 3-hour laboratory sessions per semester

PR: ENGI 1010

3101 The Engineering Workplace is a course that deals with issues associated with professional engineering practice. Topics will include workplace and professional ethics, public and workplace occupational health and safety including first-aid, equity, gender and diversity issues, and technical written, oral and visual communication.

AR: attendance is required

3424 Engineering Mathematics includes ordinary differential equations of first order and first degree; linear ordinary differential equations of higher order, methods of undetermined coefficients and variation of parameters; applications to electric circuits and mass-spring systems; Laplace transforms; partial differentiation; convergence of series; Taylor and binomial series; remainder term; and an introduction to Fourier series.

CH: 4

CR: the former ENGI 2422

LC: 4

OR: tutorial 1 hour per week

PR: Mathematics 1001, Mathematics 2050

3425 Mathematics for Civil Engineering I includes sequences & series, functions of a single parameter, conic sections, polar coordinates, partial differentiation, multiple integration, introduction to first order ordinary differential equations.

CH: 4

LC: 4

OR: tutorial 1 hour per week

PR: Mathematics 1001 and 2050

3600 Introduction to Process Engineering is an introductory course in process engineering, which comprises principles and the practical aspects of organic, inorganic and biochemical processes. It emphasizes the structure and properties of organic, inorganic, and bio-chemicals; process flow sheeting, process variable identification and production processes. The course uses extensive examples from industrial processes. In laboratory sessions students will use HYSYS and OLI software to study process characteristics.

CO: Chemistry 1051

LH: at least four 2-hour sessions per semester

3610 Earth Sciences for Civil Engineering is an introduction to basic concepts in Geology and Mining with emphasis on applications in Civil, Geological, Mining and Environmental Engineering through the use of case histories. It includes the study of rocks and minerals in selected field and laboratory exercises.

LH: 3

3703 Surveying and Geomatics includes plane surveying: distance, elevation, and angle measurements; horizontal and vertical curves; plane survey calculations; area and volume computations. Photogrammetry will be studied, including sensors and platforms, mathematics of photogrammetry; instruments and equipment, photogrammetric products, digital photogrammetry, remote sensing, and introduction to global positioning and geographical information systems (GIS). A surveying field school to introduce students to the use of surveying equipment and mapping will be held in the first two weeks of the term.

LH: 3

OR: 36-hour field school conducted during the first two weeks of the semester

3731 Materials for Construction includes structure of metals and nonmetals; deformation of metals; strengthening mechanisms in metals; concrete and cementitious materials; admixtures; iron and steel; brick masonry; concrete masonry; mortar grout and plaster; reinforced masonry structures; wood and wood products. Relevant experiments are conducted.

LH: at least ten 3-hour sessions per semester

OR: up to ten 1-hour tutorials per semester

3821 Circuit Analysis begins with a review of elementary circuits, then considers wye-delta transformation, bridge circuits; transient analysis of first- and second -order circuits; sinusoidal steady state analysis, phasor diagrams, maximum power transfer, frequency selective circuits (filters); and Laplace transforms in circuit analysis (transients, steady state, transfer function).

CO: ENGI 3424

CR: Physics 3550

LH: at least five 3-hour sessions per semester

OR: tutorial 1 hour per week

PR: Mathematics 1001, Mathematics 2050, ENGI 1040

3861 Digital Logic includes number systems and Boolean algebra; minimization techniques for Boolean functions; basic combinational logic circuit analysis and design; flip-flops, state machine design and implementation; decoders, multiplexers, registers, counters; simple arithmetic and logic unit (ALU) algorithms; introduction to hardware description languages (VHDL) for logic component and circuit modelling.

CR: Computer Science 3723

LH: at least six 3-hour sessions per semester

OR: up to eight tutorial sessions per semester

PR: ENGI 1040

3891 Advanced Programming includes advanced procedural language programming; data structures, user defined types, pointers; modularization techniques, scope and data hiding; object-oriented programming; classes, objects and attributes; data encapsulation, member and non-member functions; overloading, methods and friend functions; inheritance, sub- and super-classes; templates.

LH: at least nine 2-hour sessions per semester

PR: ENGI 1020

3901 Thermodynamics I is a macroscopic approach to heat, work, and energy; properties of pure substances; conservation of mass, energy for open and closed systems, thermal efficiency and coefficient of performance; second law of thermodynamics; and its corollaries; entropy; second law analysis of thermodynamic systems; second law efficiency.

PR: Mathematics 1001

3911 Chemistry and Physics of Engineering Materials I is an introduction to the structure and properties of engineering materials, in particular materials, semiconductors, ceramics, glasses and polymers. Topics include a review of atomic bonding, discussion of basic crystalline and amorphous structures, point and line defects, and the role these structural features play in elastic and plastic deformations, yield, fracture, glass transition, thermal conductivity, thermal expansion, specific heat and electrical conductivity.

CR: the former ENGI 2205

LH: at least four 3-hour sessions per semester

OR: tutorial 1 hour per week

PR: Chemistry 1050

3934 Dynamics includes kinematics and kinetics of particles using rectangular, normal/tangential and polar coordinates; relative motion using rotating axes; two-dimensional kinematics and kinetics of rigid bodies; force-acceleration, work-energy and impulse-momentum methods.

CR: the former ENGI 2313

OR: tutorial 1 hour per week

PR: ENGI 1010, Mathematics 1001, Mathematics 2050

3941 Production Technology includes an overview of production: production strategies; dimensioning and tolerancing; basic material removal process; forming and shaping process; casting; molding, extrusion and joining processes; computer aided machining; new technologies.

LH: at least eight 3-hour sessions per semester

9.4 Academic Term 4 Courses

4011 Resistance and Propulsion examines the phenomena resisting the motions of ships and some factors considered in the design of the marine screw propeller. The topics include the resistance due to friction, wave making, form appendage, wind and waves, squat, blockage, and shallow water effects, and also include the estimation of powering using methodical series and statistical methods. Topics considered in the design of the marine screw propeller include propeller theory, blade sections, blade strength, methodical series charts, efficiency elements, lifting line calculations, cavitation, and propellers in non-uniform flow.

CR: the former ENGI 5011

LH: 3
OR: tutorial 1 hour per week
PR: ENGI 3054

4020 Marine Fluid Dynamics includes fluid statics; fluid flow phenomena, in general and in marine applications; control volume analysis of fluid motion; conservation of mass, momentum and energy; differential approach to flow analysis; head losses; applications of conservation laws; external v.s. internal flow; dimensional analysis and scaling; fluid-structure interaction concepts; potential flow theory, lift and Kutta-Joukowski theorem; viscous flow, boundary layers and drag.

LH: at least one 3-hour session per semester
OR: tutorial 1 hour per week
PR: ENGI 3054

4102 Engineering Economics is an introduction to the concepts in the determination of the economic feasibility of engineering projects; time value of money – interest rates, depreciation, annual, present and future worth analysis; benefit-cost analysis, tangible and intangible benefits and costs; economic risk and sensitivity analysis, economic optimization.

4312 Mechanics of Solids I examines force analysis of structures and structural components, free body diagrams of structure, components and section of a components, definition of a stress at point, stress notation, complementary property of shear stress, definition of strain, normal strain, shear strain, thermal strain, mechanical properties of materials, analysis of prismatic members due to axial, bending and torsion loading, analysis of beams, shear force and bending moment diagrams, combined loads; and the transformation of stresses and strains.

LH: at least four 1-hour sessions per semester
OR: up to ten 1-hour tutorials per semester
PR: ENGI 1010

4421 Probability and Statistics includes probability, probability distributions, probability densities, sampling distribution, hypothesis testing, regression and correlation.

CR: the former ENGI 3423, STAT 2510
OR: tutorial 1 hour per week
PR: Mathematics 1001

4424 Discrete Mathematics for Computer Engineering is an introduction to discrete mathematics including a selection of topics such as propositional logic, introductory predicate logic, mathematical reasoning, induction, sets, relations, functions, integers, graphs, trees, and models of computation.

CR: the former ENGI 3422, Mathematics 2320, or the former Computer Science 2740
OR: tutorial 1 hour per week
PR: Mathematics 2050

4425 Mathematics for Civil Engineering II examines the analytical solutions of ordinary differential equations of the first and higher orders and numerical methods: errors, round off and stability, solution to nonlinear equations, curve fitting and interpolation methods, numerical differentiation and integration.

CH: 4
CR: the former ENGI 4422
LC: 4
OR: tutorial 1 hour per week
PR: ENGI 3425

4430 Advanced Calculus for Engineering includes parametric vector functions; polar curves; gradient, divergence and curl; multiple integration; vector calculus, theorems of Green, Stokes and Gauss; an introduction to partial differential equations; and application of advanced calculus to relevant engineering problems.

CR: the former ENGI 5432
OR: tutorial 1 hour per week
PR: ENGI 3424

4602 Process Engineering Thermodynamics extends the study started in ENGI 3901 of thermodynamics, with special reference to chemical process applications: basic laws, thermodynamic properties of pure fluids and mixtures, heat engines, multicomponent systems, thermal/mechanical equilibrium, chemical equilibrium, and thermodynamics of chemical processes. Special emphasis is placed on the application of thermodynamics to practical problems in chemical engineering such as phase equilibria, solutions and reaction equilibria in separations and reaction engineering.

CR: CHEM 2300, the former CHEM 3300
PR: ENGI 3901

4621 Process Mathematical Methods introduces numerical methods in chemical engineering processes; sets of linear algebraic equations; simultaneous non-linear equations; polynomial functions; numerical integration; numerical differentiation; higher order ordinary differential equations, stiff equations, Runge-Kutta methods, boundary value problems, applications of eigenvalue problems (numerical solutions). It provides applications of the methods to different aspects of process engineering such as reactor design, separation, process modeling, equipment design and analysis.

CO: ENGI 4625
PR: ENGI 3424

4625 Process Engineering Calculations is an introduction to the analysis of chemical processes with an emphasis on mass and energy balances. Stoichiometric relationships, ideal and real gas behaviour are also covered. The course will help process engineering majors in their second year to develop a framework for the analysis of flow sheet problems and will present systematic approaches for manual and computer-aided solution of full scale balance problems.

CO: ENGI 4602
PR: ENGI 3901

4717 Applied Environmental Science and Engineering examines the nature and scope of environmental problems; concept of sustainable development; natural environmental hazards; introduction to ecology, microbiology and epidemiology; basic concepts of environmental quality parameters and standards; solid and hazardous wastes; atmospheric, noise, and water pollution, their measurements, and control.

LH: at least ten 3-hour sessions per semester
PR: Completion of Term 3 of the Civil Engineering program

4723 Geotechnical Engineering I begins with an introduction to soil as a three-phase material and examines physical and mechanical properties; structure; classification of soils; soil compaction; hydraulic properties; permeability; flow of water in soil; flownets; effective stress concept in soils; stresses in soils beneath loaded areas; and one-dimensional consolidation theory.

LH: 3
OR: tutorial 1 hour per week
PR: completion of Term 3 of the Civil Engineering program

4823 Introduction to Systems and Signals begins with an introduction to systems and signals, and includes mechanical and electrical analogues; principles of linear superposition and time-invariance; definitions, properties, and use of the delta function; applications of complex variables and functions; impulse and step responses; input-output relations of continuous-time systems in terms of convolution and transfer functions; frequency response plots; the Fourier transform and applications; applications of Laplace transforms to filtering, communications, and controls.

OR: tutorial 1 hour per week
PR: ENGI 3424, ENGI 3821

4841 Electromechanical Devices includes an introduction to fundamental principles of energy conversion; review of three-phase systems; magnetic fields and circuits; transformer models, performance and applications; basic concepts of rotating machines; performance and control of dc machines.

CR: the former ENGI 5842
LH: at least six 3-hour sessions per semester
OR: up to ten tutorials per semester
PR: ENGI 3424, ENGI 3821

4854 Electronic Circuits I provides an introduction to semiconductor electronic devices and circuits. Topics covered include internal structure of electronic devices; working principles, dc and small-signal models and analysis of p-n junction diodes, bipolar junction transistors and field effect transistors; introduction to digital electronics; differential and multistage amplifier circuits; internal circuits of operational amplifiers; output stages; practical applications of the devices to the design of power supplies, amplifiers and switching circuits. CAD tools are used to illustrate the analysis and design of electronic circuits.

LH: at least ten 3-hour sessions per semester
OR: tutorial 1 hour per week
PR: ENGI 3821, Physics 3000

4862 Microprocessors is a course on microprocessor architecture; assembly language programming; addressing modes, table look up; memory mapped devices; interfacing techniques: parallel, serial; timing control; analog input and output, and computer displays.

LH: at least eight 3-hour sessions per semester
PR: ENGI 3861

4892 Data Structures examines fundamental data structures; recursive structures and programming techniques; modularity and reusability; time complexity and efficient data structures; procedural abstraction; data abstraction and precise documentation of data structures.

CO: ENGI 4424
PR: ENGI 3891

4901 Thermodynamics II examines thermodynamic cycles: power and refrigeration applications; human comfort and air conditioning; mixture of gases and vapours, humidity, psychrometrics; chemically reacting mixtures and combustion.

LH: at least two 2-hour sessions per semester
PR: ENGI 3901

4932 Mechanisms and Machines includes an overview of mechanisms within machines; graphical and analytical methods for position, velocity, and acceleration analysis of moving mechanisms; kinematics and kinetics of planar mechanisms; static and dynamic loads on mechanisms and an

introduction to mechanism synthesis. There is an analysis project.

CR: the former ENGI 3933
OR: tutorial 1 hour per week
PR: ENGI 3934

4951 Mechatronics I focuses on sensors and instrumentation. The topics covered in the course are: electric circuits; electronic sensors; signal conditioning and instrumentation. There is a sensors project and 4 laboratory exercises.

LH: at least four 1-hour sessions per semester
PR: ENGI 1040

9.5 Academic Term 5 Courses

5003 Ship Structures I examines longitudinal strength, still water and wave bending moment, shear and bending moment curves, Smith Correction, section modulus calculation, torsion and racking forces; bulkhead and girder scantlings, portal frame analysis by moment distribution and energy method; finite element analysis and the use of Classification Society rules for design of midship section.

CR: the former ENGI 6002
PR: ENGI 4312

5020 Marine Propulsion is a second course in marine propellers and ship powering. The purpose of this course is to give students the principles of design and analysis of marine screw propellers and other propulsion devices. The course introduces various marine propulsion devices including conventional and unconventional propulsion systems. It covers methods of propeller design and propeller design philosophy. Emphasis is placed on the design of fixed-pitch propellers based on the lifting line theory and the design of ducted propellers. The student will also develop some insight into the design of other propulsion systems such as waterjets and sails.

CR: the former ENGI 6020
LH: at least one 3-hour session per semester
PR: ENGI 4020

5022 Stochastic Processes in Ocean Engineering includes basic concepts in probability, random variables, multiple random variables, descriptive statistics. The random processes component reviews mathematics of functions; introduces system input-output relations of continuous-time systems; contrasts time vs frequency domain representations; introduces frequency response plots and the Fourier transform; includes selected applications for ocean engineering.

OR: tutorial one hour per week
PR: ENGI 4020, Mathematics 3260

5312 Mechanics of Solids II begins with an introduction to earlier concepts then considers strain transformation; deflections of beams and shafts, energy methods; failure theories; buckling of columns and the inelastic behaviour of beams.

LH: at least five 3-hour sessions per semester
PR: ENGI 4312

5420 Probability and Random Processes includes basic concepts in probability, random variables, multiple random variables, descriptive statistics, random processes and selected applications for engineering.

PR: Mathematics 1001

5434 Applied Mathematical Analysis examines numerical and analytical solutions of applied mathematical problems in Civil Engineering, problems with higher order ordinary differential equations, stiff equations, systems of ODE, Runge-Kutta methods, boundary value problems, applications of eigen value problems (numerical solutions), Fourier analysis, elliptic, parabolic and hyperbolic partial differential equations and their numerical solutions with engineering applications.

PR: ENGI 4425

5601 Mass Transfer covers diffusive as well as convective mass transfer, mass transfer correlations, and the application to absorption and dehumidification.

LH: at least seven 2-hour sessions per semester
PR: ENGI 4602

5621 Process Modelling and Analysis is designed to introduce the concepts of process model building and its application in design and process scheduling. It includes fundamentals of process modelling, lumped parameter dynamic models, distributed parameter dynamic models, advanced dynamic model development, application of process models, and computer aided process design. The course will also introduce concepts and applications of process optimization, process flow sheet optimization, process scheduling, and process flexibility analysis.

PR: ENGI 4621, ENGI 4625

5671 Process Equipment Design I introduces the principles of unit operations, grouped into four sections: fluid mechanics, heat transfer, mass transfer and equilibrium stages, and operations involving particulate solids. It also includes design and operation fundamentals of unit operations: size reduction, filtration, evaporation, drying, crystallization, and humidification, and membrane separation.

CO: ENGI 5601
LH: at least four 2-hour sessions per semester
PR: ENGI 4621, ENGI 4625

5706 Design of Concrete Structures begins with a review of concrete mix design. Topics include design methods and requirements, strength of rectangular sections in bending, balanced condition at ultimate strength with tension reinforcement, bending with both tension and compression reinforcement; serviceability, deflections, flexural crack control for beams and one-way slabs; shear strength, inclined cracking, and shear reinforcement; bond stress and development of reinforcement; T-sections in bending; members in compression and bending; length effects, lateral ties, spiral reinforcement and longitudinal bar placement.

LH: at least five 3-hour sessions per semester
PR: ENGI 4312

5713 Fluid Mechanics examines fluid characteristics; fluid statics; buoyancy and stability; kinematics; pressure measurement; continuity, energy and momentum principles; energy and hydraulic grade lines; free jets; laminar and turbulent flow; dimensional analysis; drag on immersed bodies; flow measurement.

CR: the former ENGI 4913
LH: at least five 1-hour sessions per semester
PR: ENGI 4425

5723 Geotechnical Engineering II examines shear strength of soil, types of laboratory and in-situ soil tests; immediate and consolidation settlement of foundations; plastic equilibrium in soils; limit equilibrium method; earth retaining structures; introduction to bearing capacity theories; and stability of slopes. Relevant laboratory exercises and projects are also included.

CR: the former ENGI 6723
LH: 3
PR: ENGI 4723

5800 Electrical Engineering Design students will work in pairs on small design projects that will require them to follow a hierarchy of design process which includes general product definition, specifications and requirements, functional block diagrams, definition of specification of functional blocks for circuit level synthesis and implementation, system integration, simulation or modelling, testing and verification. The small projects are designed to encourage and motivate students to learn and practise the process of design. The course will culminate in a large design project.

CO: ENGI 5821, ENGI 5854
LC: at least 10 lecture hours per semester
OR: meetings with project supervisor as required
PR: ENGI 4841, ENGI 4854, ENGI 4862

5812 Basic Electromagnetics includes a review of relevant vector calculus, including the divergence, gradient and curl operators in Cartesian, cylindrical and spherical coordinates, divergence theorem, Stokes' theorem, and Laplace's and Poisson's equations. Topics in electrostatics include Coulomb's law, potential and energy, conductors, dielectrics, capacitance and electric field boundary conditions. Topics for magnetism include the steady magnetic field, the Biot-Savart law, Ampère's law, magnetic force, potential and magnetic materials and boundary conditions.

PR: ENGI 3821, ENGI 4430

5821 Control Systems I includes an introduction to control systems with a negative feedback; mathematical modelling and transfer functions of electromechanical systems; block diagram reduction and signal flow graphs; controller realization using op-amps; transient response analysis; Routh's stability criterion; basic control actions and response of control systems; root locus analysis and design; frequency response analysis; Bode diagram; gain and phase margins; compensator design in frequency domain; Nyquist stability criterion; A/D and D/A conversion, digital implementations of analog compensators; and an introduction to PID controller tuning methods.

LH: at least four 3-hour sessions per semester
PR: ENGI 4823

5854 Electronic Circuits II provides an introduction to circuits using operational amplifiers. Topics covered include operational amplifier configurations, analysis, and design; transient and frequency response of amplifier circuits; feedback amplifier analysis and design, stability and compensation techniques; noise and distortion in electronic circuits; analysis and design of data converters; and an introduction to analog filter design. CAD tools are used to illustrate the analysis and design of electronic circuits.

LH: at least five 3-hour sessions per semester
PR: ENGI 4823, ENGI 4854

5865 Digital Systems includes concepts, language, tools, and issues pertaining to specification, modelling, analysis, simulation, testing and synthesis of digital systems, including PLD, FPGA, and ASIC devices. Industry standard CAD tools will be used in this course to facilitate system design and testing.

LH: at least ten 3-hour sessions per semester
PR: ENGI 3891, ENGI 4862

5895 Software Design examines the development process: requirement analysis, design, iterative development, design documentation; an introduction to the Unified Modelling Language: use cases, class diagrams

and sequence diagrams; an introduction to software design patterns: creational patterns, structural patterns and behavioural patterns; object oriented, modular decomposition. The course includes a major design project.

LC: at least 15 lecture hours per semester
OR: meetings with project supervisor as required
PR: ENGI 4892

5911 Chemistry and Physics of Engineering Materials II examines aspects of chemical and physical processes and microscopic structure relevant to the production and use of engineering materials, focussing on metals, alloys, silicates, Portland cement, plastics and adhesives, composites, and wood. Topics include solid-state solutions and compounds, alloy structures, phase diagrams, reaction rates, solid-state transformations, polymerization, oxidation and corrosion, hardness, creep, fatigue, fracture toughness and visco-elastic deformation.

CR: the former ENGI 3205
LH: at least four 3-hour sessions per semester
OR: tutorial 1 hour per week
PR: ENGI 3911

5927 Mechanical Component Design I examines adequacy assessment and synthesis of machine elements with a focus on failure prevention, safety factors, and strength; static failure of ductile and brittle materials, fatigue analysis of components. Topics include the design of power screws, bolted connections, welds, springs, and shafts.

CR: the former ENGI 5926
LH: at least eight 3-hour sessions per semester
PR: ENGI 4312

5931 Advanced Mechanics of Deformable Solids examines stresses due to combined loads, thin-walled pressure vessels, transformation of stresses and strains, principal stresses and strains (two and three dimensional stresses), Mohr's circle, theory failures, stress concentrations, energy methods, buckling of columns, thick-walled cylindrical pressure vessels, rotating disks, multi layered thick walled pressure vessels, shrink fits and contact stresses.

CR: ENGI 5312
LH: at least four 2-hour sessions per semester
PR: ENGI 4312

5951 Mechatronics II focuses on drives and controllers. The topics covered in the course are: electric motors; actuators; control circuits. There is a motors project and 4 laboratory exercises.

LH: at least four 1-hour sessions per semester
PR: ENGI 4951

5961 Fluid Mechanics I examines fluid statics; fluid flow phenomena; control volume analysis; conservation of mass, momentum, and energy; Bernoulli equation; head losses, applications of conservation laws: flow measurement devices; pipe networks; momentum devices, dimensional analysis, boundary layer phenomena, lift and drag.

CR: the former ENGI 4913
LH: at least five 1-hour sessions per semester

9.6 Academic Term 6 Courses

6003 Ship Structures II is an introduction to ship structural safety and rational design. Topics include local strength analysis, elastic, plastic and ultimate strength of plating, frames and grillages, buckling of columns and plates and fatigue and fracture in ships.

CR: the former ENGI 7002
LH: at least one 4-hour session per semester
PR: ENGI 5003

6005 Floating Ocean Structures Design introduces floating structures used in the offshore petroleum industry, along with functional requirements, such as drilling and production, of the platforms. Field development criteria are discussed in the context of platform concept selection and synthesis. Environmental loads are examined, focussing on wave loads and ice loads. Diffraction theory and its application on offshore structures is presented. Offshore safety is discussed in terms of major hazards, risk management, and case studies.

CR: the former ENGI 7005
LH: 1
PR: ENGI 3054

6055 Marine Cybernetics examines propulsion and motion control of ships, submersibles and offshore structures. Building upon the student's knowledge of mathematics, mechanics and hydrodynamics provides an introduction to control systems and mathematical modeling of marine systems. Course components include: basic control actions and response of control systems, simulation and design of control systems; dynamic positioning; power management; marine automation.

LH: at least four 2-hour sessions per semester
PR: ENGI 4011

6101 Assessment of Technology deals with the issues of the impact of technology on society from an economic, environmental and sociological

point of view. Public safety as an engineering responsibility will also be covered. Students will be expected to participate in group discussions, write a number of essays and give oral presentations.

6322 Thermal Sciences examines fundamental concepts associated with thermodynamics, fluid dynamics and heat transfer; first and second laws of thermodynamics; system and control volume analysis; classification of flows; introduction to boundary layers and drag; convection, conduction and radiation heat transfer; thermal insulation and calculation of R-values; and cooling of electrical components.

CR: the former ENGI 4322
PR: ENGI 5312

6602 Offshore Petroleum Geology and Technology introduces basic concepts in geology and geophysics of the offshore environment. An outline of petroleum geology is presented, following a path from the origins of hydrocarbons through migration in the Earth's crust, accumulation in reservoirs and the strategies used to discover and to exploit liquids found in the subsurface. Topics include an introduction to the offshore oil and gas industry in harsh environment, type of platforms and structures, exploration phase of offshore oil development, production drilling and completion processes and equipment, and oil and gas transportation system. There are case studies and a project.

PR: completion of Academic Term 5

6631 Chemical Reaction Engineering will cover the fundamentals of chemical kinetics and reaction rate expressions as well as the types of reactors, homogeneous and heterogeneous (catalytic) reactors, and the interrelation between transport phenomena and reaction engineering as it applies to process design. It also includes non-ideal flow, non-ideal reactors, catalytic reaction system, and multiphase reactors.

LH: at least four 2-hour sessions per semester
PR: ENGI 4621, ENGI 5961

6651 Sustainable Engineering in Processing Industries will introduce students to sustainable development and its application to processing operations. Areas such as traditional economic growth, materials cycles, methods for measuring environmental impact, life cycle analysis, waste treatment technologies and recycling technologies will be covered. In addition, the concept of industrial ecology will be included.

PR: ENGI 4625, ENGI 5601

6671 Process Equipment Design II will cover design and operation of equilibrium stage separation processes including distillation, extraction, and leaching. It will also cover advanced concept of equipment design such as heterogeneous system, multiphase system, absorption, and adsorption operation and computer assisted design. Course will use HYSIS and other process equipment design tools.

LH: at least four 2-hour sessions per semester
PR: ENGI 5601, ENGI 5671

6705 Structural Analysis I examines structure classification and loads, building code provisions, analysis of statically determinate arches and frames, shear and moment diagrams for frames, influence lines for statically determinate structures, approximate analysis of indeterminate trusses and frames; the force method of analysing indeterminate beams and frames, an introduction to slope deflection method, and moment distribution method.

LH: at least five 3-hour sessions per semester
PR: ENGI 5312

6707 Design of Concrete and Masonry Structures examines design methods for reinforced concrete two-way slabs, two-way slabs supported on walls and stiff beams, design of two-way slab systems, direct design method and equivalent frame method, design of concrete retaining walls and basement walls, engineered masonry, allowable masonry stresses, mortar stress, analysis and design of flexural members, axial load and bending in unreinforced and reinforced walls, columns and masonry shear walls.

LH: 2
PR: ENGI 5706

6713 Hydraulics examines flow in pipe systems and networks; uniform and non-uniform flow in open channels; hydraulic machinery and associated conduits; design and analysis of culverts; and pipeline/pump system optimization.

LH: at least four 3-hour sessions per semester
PR: ENGI 5713

6718 Environmental Geotechniques examines soil characteristics; soil mineralogy; soil water interaction; soil contaminant interactions; advection, adsorption and diffusion; non-aqueous phase liquids; geosynthetics; design of landfills; and use of waste materials. Relevant software programs are used.

CR: the former ENGI 7718
PR: ENGI 5723

6749 Construction Planning Equipment and Methods includes construction equipment selection and utilization; earthmoving including use of explosives; case studies of major civil projects; principles of project planning and control; computer applications to the construction industry.

CR: the former ENGI 8749

PR: completion of Term 5 of the Civil Engineering program

6813 Electromagnetic Fields is a continuation of the topics started in Engineering 5812, including a review of electrostatics and magnetostatics, Maxwell's equations, Lorentz force, Poynting's theorem, plane waves, and applications including two-wire transmission lines.

LH: at least three 3-hour sessions per semester

PR: ENGI 5812

6843 Rotating Machines examines the fundamentals of rotating machines; design of machine windings; polyphase and single phase induction motor theory and applications; synchronous machine theory; stability and control of synchronous generators; control and protection of rotating machines, an introduction to A.C. motor drives, and machines.

LH: at least six 3-hour sessions per semester

PR: ENGI 4841

6855 Industrial Controls and Instrumentation examines control and instrumentation system components; transducers and signal processing circuits, linear variable differential transformers, power oscillators; electromechanical actuators, solenoids, power drives; A/D and D/A conversion, standard PC interfaces; real-time operating systems; design of discrete-time feedback controllers on a PC platform; system integration, control system tweaking and troubleshooting; programming soft-PLC's using IEC61131.

CR: the former ENGI 7858

LH: at least eight 3-hour sessions per semester

PR: ENGI 5821

6856 Power Electronics is an overview of power semiconductor switches, an introduction to energy conversion and control techniques and examination of controlled rectifiers; phase-controlled converters; switch-mode dc/dc converters; variable frequency dc/ac inverters; ac/ac converters; design of thyristor commutation circuits, gate and base drive circuits, and snubber circuits; thermal models and heat sink design.

CR: the former ENGI 7846

LH: at least ten 3-hour sessions per semester

PR: ENGI 5854

6861 Computer Architecture begins with a review of microprocessors and computer organization. Topics include fundamentals of computer design; performance metrics and cost; instruction set architecture; memory hierarchy design: cache, main memory and virtual memory; pipelining; hazards, parallelism; special purpose processors; multiprocessors and thread-level parallelism.

PR: ENGI 4862

6871 Communication Principles begins with a review of signal representation and analysis and includes distortionless signal transmission, analog modulation (AM, FM and PM), super-heterodyne receiver, sampling theorem, pulse amplitude modulation (PAM), pulse code modulation (PCM), delta modulation, baseband digital transmission, digital modulation techniques (ASK, FSK and PSK).

LH: at least four 3-hour sessions per term

PR: ENGI 4823, ENGI 5420

6876 Communication Networks is an introduction to communication networks such as the telephone network and the Internet. Topics include flow control and error control; circuit switching; packet switching; local area networks; internetworking; communication architectures and protocols.

PR: ENGI 5420

6892 Algorithms, Complexity, and Correctness presents fundamental theories and practices for the design of correct and efficient computing systems, including specification of computing systems and their components, correctness with respect to specifications; methods of verification; algorithmic problem solving strategies (such as divide and conquer, dynamic programming, etc.); tractability and intractability of computational problems.

PR: ENGI 4424, ENGI 4892

6901 Heat Transfer I examines modes of heat transfer; conduction: steady 1-D conduction, thermal resistance, extended surfaces (fins), lumped capacitance analysis, 1-D transient conduction; convection: Newton's law of cooling, convection heat transfer coefficient, external boundary layer flows, internal flows, natural convection; radiation: principles, properties, exchange factors, black body radiation, and enclosures, radiation shields.

LH: at least one 3-hour session per semester

PR: ENGI 4901

6927 Mechanical Component Design II is a continuation of the ENGI 5927 course in analysis and synthesis of machinery, including advanced analysis of machine elements such as clutches, brakes, couplings, journal bearings and gears. Advanced machine design concepts are examined, such as reliability, optimization and techniques for stimulating innovative design. A synthesis project involving the machine elements studied is usually included.

CR: the former ENGI 6926

LH: at least ten 3-hour sessions per semester

PR: ENGI 5927

6933 Mechanical Vibrations examines single degree of freedom systems: free vibration, energy methods, response to harmonic excitation, response to arbitrary inputs, two degree of freedom systems: natural frequencies and mode shapes, dynamic vibration absorber.

CR: the former ENGI 5932

LH: at least four 2-hour sessions per semester

PR: ENGI 3934

6951 Automatic Control Engineering examines the performance of feedback control systems. The topics covered in the course are: feedback control concept; control system performance; control system stability; nonlinear phenomena. There is a project which makes use of a peripheral interface controller or PIC. There are 3 laboratory exercises. Extensive use is made of MATLAB.

CR: the former ENGI 6925

LH: at least three 1-hour sessions per semester

PR: ENGI 5951

6961 Fluid Mechanics II examines differential analysis of fluid motion; conservation of mass: continuity equation; conservation of momentum: Navier-Stokes equations; conservation of energy; inviscid incompressible flows; low Reynolds number flows; boundary layer flows; compressible flows.

CR: the former ENGI 5913

LH: at least three 1-hour sessions per semester

PR: ENGI 5961

9.7 Academic Term 7 Courses

7000 Ocean Systems Design examines the preliminary design methods for the design of marine platforms and vehicles from mission statement to the selection of one or more acceptable solutions; weight and cost estimating, power requirements estimating, and selection of principal design characteristics and economic and operational evaluation of alternative solutions. There are relevant design laboratory projects.

CR: the former ENGI 7052

LH: 3

PR: ENGI 3001, ENGI 3054

7007 Marine Materials examines the properties and uses of steel and aluminum in marine applications. Topics include: overview of shipbuilding process; review of mechanics of materials, Hooke's Law, material failure models; carbon steel properties, grades, classification, testing; welding of steel - fundamentals, processes, preparation, design, drawings, certification; joining of aluminum - riveting, welding.

LH: at least 4 three-hour sessions per semester

PR: CHEM 1050, ENGI 4312

7033 Marine Hydrodynamics examines the fundamental equations of hydrodynamics, boundary layers; potential flow, added mass, damping, circulation, and vorticity; numerical methods for hydrodynamic coefficients; water waves and loading for regular and irregular seas.

LH: at least one 3-hour session per semester

PR: ENGI 4020

7035 Dynamics and Maneuvering of Ocean Vehicles (same as the former ENGI 6030) examines applications of the linearised equations of motion to ocean vehicle problems with single and multiple degrees of freedom; dynamics and maneuvering of marine vehicles: motions in calm water and in waves; hydrodynamics effects such as added mass, radiation and viscous damping; strip theory; irregular motions; and systems for course keeping and motion control.

CR: the former ENGI 6030

PR: ENGI 3054, ENGI 4020

7045 Marine Engineering Systems examines shafting system design; shafting system vibration analysis, study of exciting forces and moments, and balancing of reciprocating and rotating machinery; heat transfer and marine heat exchangers; incompressible fluid flow and piping system design and selection of appropriate pumping devices.

CH: 4

LC: 4

LH: 1

PR: ENGI 3901, ENGI 6933

7102 The Engineering Profession examines the origins and development of Engineering as a profession and its values, the place of technology in society and the nature of technological decisions. Topics will include the role and responsibility of the professional engineer in society, code of ethics, sustainable development and environmental stewardship.

CR: the former ENGI 5101

PR: ENGI 003W

7621 Process Dynamics and Control familiarizes students with the scientific and engineering principles of process dynamics and control. Students will apply and integrate knowledge of chemical engineering to identify, formulate and solve process dynamics problems and develop control systems. Modern computational techniques and tools will be used for solving chemical process control problems. Also students will become

familiar with industrial control systems.

LH: at least six 2-hour sessions per semester
PR: ENGI 5621

7623 Process Simulation provides students with the knowledge and experience to use a process simulator effectively for the analysis and synthesis of process flowsheets, mass and energy balances, sizing of individual component and process unit, reactor modeling, separation device modeling, heat exchanger modeling, and dynamic and steady state analysis.

LH: at least nine 2-hour sessions per semester
PR: ENGI 5621, ENGI 6671

7640 Process Engineering Project I gives students the opportunity to apply the knowledge gained in previous design and technical courses to the complete design of a piece of process equipment, e.g. distillation column, evaporator, membrane separation unit, etc. The goal is to expose the students to practical design issues that arise in process equipment design, and to provide experience in the complete design process as applied to real devices. This course is a precursor to ENGI 8640 where students will work in groups to design a process system.

LC: scheduled as required
PR: completion of academic term 6 of the process engineering program

7650 Offshore Oil and Gas Engineering Project I is a multidisciplinary design project that illustrates the application of previous engineering science and design related courses. The project will be done by teams of students with individuals concentrating their participation in their own engineering discipline. The project topic will be from the offshore oil and gas engineering industry. Lectures will be scheduled as required. This is the Term 7 project and if the scope of the project is such that it needs to continue, then the student will have the option to continue the same project in term 8 (in ENGI 8650).

LC: 1
PR: completion of Academic Term 6

7651 Industrial Pollution Control/Pollution Prevention is designed to introduce methods of industrial pollution assessment and control. Topics include waste characterization, water pollution assessment, water pollution control, air pollution assessment and control, solid waste assessment and control, pollution prevention, environmental risk assessment and risk based decision making.

PR: ENGI 5621, ENGI 6671

7680 Supervisory Control and Data Acquisition examines data acquisition and intelligent field devices; distributed systems and fieldbus technology; programmable logic controllers and programming standards; operator control interface; supervisory control and data acquisition; and enterprise organization.

LH: at least four 3-hour sessions per semester
PR: ENGI 5821

7691 Mining and Metallurgical Process Engineering is designed to provide students with a basic fundamental background to the mining, mineral processing, and extractive metallurgical processing industry from both traditional and modern industrial methodologies. Concepts such as a mine design, mineral flow sheets, extraction methods, and examples from industrial applications will be reviewed with problems.

LH: at least four 2-hour sessions per semester
PR: completion of academic term 6 of the process engineering program

7704 Design of Steel Structures begins with a review of Design Concepts, Standards and Products. Topics include design of members and connections, tension members, bolted joints, welded joints, compression members, stability and effective length, flexural members, beams & beam-columns, plate girders, composite construction, introduction to serviceability, and deflections.

LH: at least four 2-hour sessions per semester
PR: ENGI 5706 or approval of the Discipline Chair

7706 Finite Element Structural Analysis includes a review of basic concepts required for FEA, basics of stiffness formulation, direct stiffness method, displacement method, one dimensional elements, trusses and frames. Topics include 1-D fluid and heat transfer elements, automated analysis and modelling concepts, higher order elements, two dimensional elements - plane stress and plane strain, introduction to 3D and other types. - introduction to advanced topics and isoparametric formulation.

LH: at least eight 2-hour sessions per semester
PR: ENGI 6705 or approval of the Discipline Chair

7707 Reliability and Environmental Loading on Offshore Structures begins with an introduction to natural phenomena that cause loading and influence the design of marine structures. Topics include the interpretation and utilization of field data for the determination of design loads for wind, waves currents and ice and case studies of load analysis for the design of offshore structures in Atlantic Canada.

PR: ENGI 5312

7713 Hydrology and Water Resources examines precipitation, snowmelt, infiltration, runoff and streamflow; statistical treatment of hydrologic data; hydrograph analysis and synthesis; evaporation; structure design floods;

reservoir storage and flood routing; urban run-off and drainage.

LH: at least 6 hours per semester
PR: ENGI 5713, ENGI 6322

7716 Hydrotechnical Engineering examines the theory and application of steady gradually-varied flow in artificial and natural open channels together with an introduction to appropriate software; erosion protection and mobile-boundary hydraulics; problems with ice in rivers, the design of spillways, energy dissipaters, and culverts; physical scale models. There is an introduction to water hammer and surge tanks.

LH: at least four 3-hour sessions per semester
PR: ENGI 6713

7723 Geotechnical Engineering III examines soil investigation and site characterization; pile foundations; embankment dams; elements of geotechnical earthquake engineering; constitutive theories for soil materials; and numerical methods in geotechnical engineering. The students select two of the above topics on which they are interested in concentrating their efforts. Bi-weekly lectures are offered on the other topics at an informal level.

PR: ENGI 5723

7745 Highway Engineering examines design and construction of highways including driver, vehicle and road characteristics; highway location and geometric design; soil classification; subgrade and base materials; highway drainage; flexible and rigid pavement; and highway economics.

PR: completion of Term 6 of the Civil Engineering program

7748 Project Planning and Control includes an introduction to types of contracts, project delivery approaches, and prevailing contractual relationships. The course examines basic project management techniques for network planning and scheduling (CPM and PERT); principles of resource productivity databases, preliminary estimating, and detailed bid preparation; quantitative approaches for effective control of time, cost, resource, quality, and value of constructed facilities; use of computer software for scheduling, estimating, and control.

PR: completion of Term 6 of the Civil Engineering program

7803 Electrical Engineering Design Project I provides an opportunity for senior students to integrate the knowledge that they have acquired through the junior terms and apply it to solving an electrical engineering design problem. Students work in small teams with the assistance of a faculty mentor to define an appropriate design problem and propose a method of solution to the problem. The project is continued in ENGI 8853.

CR: the former ENGI 7800
LC: at least 10 lecture hours per semester
OR: weekly meetings with project supervisor
PR: completion of Term 6 of the Electrical Engineering program

7804 Computer Engineering Design Project I provides an opportunity for senior students to integrate the knowledge that they have acquired through the junior terms and apply it to solving a computer engineering design problem. Students work in small teams with the assistance of a faculty mentor to define an appropriate design problem and propose a method of solution to the problem. The project is continued in ENGI 8854.

CR: the former ENGI 7800
LC: at least 10 lecture hours per semester
OR: weekly meetings with project supervisor
PR: completion of Term 6 of the Computer Engineering program

7811 Antennas examines the fundamentals of electromagnetic radiation; potentials; small antennas and antenna parameters; thin linear wire antennas and antenna arrays; antenna impedance and ground effects; Friis transmission formula; and aperture antennas.

LH: at least three 3-hour sessions per semester
PR: ENGI 6813

7814 Electromagnetics for Communications examines vector calculus; Green's, Stokes' and Gauss' theorems; Maxwell's differential and integral equations; steady-state and time-varying aspects of Maxwell's equations; uniform plane wave propagation in various media; and applications of electromagnetics in communications.

PR: ENGI 3424, ENGI 3821

7824 Introduction to Digital Signal Processing examines sampling theory; the discrete Fourier transform; the efficient fast Fourier transform algorithm; elementary discrete-time signals; the discrete-time Fourier series; the discrete-time Fourier transform; discrete-time linear and time-invariant systems; linear constant-coefficient difference equations; the convolution sum; the z-transform and frequency response of discrete-time systems; an introduction to digital filter design techniques; and digital signal processing applications.

PR: ENGI 6871

7825 Control Systems II examines state space models for multi-input/output systems; observability, controllability; state feedback without and with integral controller structure, state observers; quadratic optimal regulator and tracking control strategies; discrete-time state equations; and an introduction to optimal control.

CR: the former ENGI 6825

PR: ENGI 5821

7844 Power System Analysis begins with an introduction to electric power systems. Topics include per unit quantities; transmission line parameters; modelling of power system components; single line diagrams; network equations formulation; bus impedance and admittance matrices; load flow analysis and control; design of reactive power compensation for power system performance enhancement; tap changing, auto and control transformers for power system application; economic dispatch and optimal power flow studies.

LH: at least six 3-hour sessions per semester
PR: ENGI 6843

7854 Industrial Machine Vision is a senior undergraduate course in computer vision with an emphasis on techniques for automated inspection, object recognition, mechanical metrology, and robotics. Image processing courses typically focus for image enhancement, restoration, filtering, smoothing, etc. These topics will be covered to a certain degree but the main focus will be on image segmentation, feature extraction, morphological operators, recognition and photogrammetry. Issues related to the efficient software implementation of these techniques for real-time applications will also be addressed. While there is no prerequisite for this course non-computer engineering students must have reasonably strong programming skills.

7855 Communications Electronics begins with an introduction to communications systems components and a review of linear amplifiers. The course examines linear amplifier design and characteristics using s-parameters; power amplifiers; mixers; oscillators; modulator/demodulator circuits and subsystems; and the integration of subsystems into analog and digital communication systems.

LH: at least four 3-hour sessions per semester
PR: ENGI 5854, ENGI 6871

7856 Renewable Energy Systems examines the assessment of wind energy potential, wind turbine aerodynamics, types, modelling and control strategies; hybrid energy systems; energy storage; solar energy systems; photovoltaic, PV system engineering, stand-alone and grid connected systems, sizing and maximum power tracking; solar water pumping; micro-hydro systems and control; tidal power, wave energy converters, ocean thermal systems. Applications of hybrid energy system sizing software are also included in the course.

PR: ENGI 4841 or the former ENGI 5842

7894 Concurrent Programming surveys parallel and distributed architectures and examines patterns of concurrent program design; correctness of concurrent programs: safety and liveness properties, proof of properties; synchronization using locks, semaphores, and monitors; communication using message passing and remote procedures; parallelization for high-performance computation and advanced topics such as scientific applications, distributed systems, model checking, and transaction processing.

CR: the former ENGI 8893
PR: ENGI 6861, ENGI 6892

7901 Heat Transfer II examines advanced topics in heat transfer; multi-dimensional conduction: shape factors, numerical methods, moving heat sources; heat transfer equipment: heat exchangers, heat exchanger design principles; phase change heat transfer: melting, solidification, condensation, and boiling.

LH: at least one 3-hour session per semester
PR: ENGI 6901

7903 Mechanical Equipment examines performance characteristics of mechanical equipment; fluid power devices: pipes; valves; pumps; fans; blowers; compressors; storage tanks; heat transfer devices: heat exchangers; boilers; cooling towers; and pressure vessels.

LH: at least three 1.5-hour sessions per semester
PR: ENGI 6901

7911 Industrial Materials examines physical and mechanical properties; industrial materials; metals and metal alloys, ceramics and polymer, composite materials, failure modes and mechanisms, non-destructive testing and evaluation; damage tolerant materials; material treatments; and materials selection.

CR: the former ENGI 6972
LH: at least 20 hours per semester
PR: ENGI 5911

7926 Mechanical Design Project I is the first of two capstone design courses in the Mechanical Discipline. In this course mechanical students are organized into small groups or teams, which must complete a common design challenge. The project is presented as an open-ended problem statement with specific performance objectives. The system must be designed, prototyped and tested during the course of the term. Each team is a small consulting firm and is required to document its object planning as well as its design.

CR: the former ENGI 7936
LC: scheduled as required
LH: scheduled as required

PR: completion of Term 6 of Mechanical Engineering program

7928 Computer Aided Engineering Applications introduces a variety of Computer Aided Engineering (CAE) applications based on advanced 3D CAD modelling. The fundamentals of 3D modelling are covered including parametric and feature-based design. CAE applications include assembly modelling, mechanism animation and finite element analysis. Further applications include Computer Aided Manufacturing (CAM); model based inspection (i.e. Coordinate Measurement Machines); reverse engineering; document/drawing production; data exchange; and data management. The course has a significant lab component, which provides exposure to solid modelling and CAE applications based on an industrial CAD/CAM/CAE package.

CR: the former ENGI 7962
LH: at least ten 3-hour sessions per semester
PR: ENGI 1030, ENGI 6927

7934 Finite Element Analysis examines the basis of the finite element method. The course examines continuum mechanics applications; beam problems, fluid mechanics problems, and heat transfer problems. There are relevant computer laboratory exercises.

LH: at least ten 2-hour sessions per semester
PR: ENGI 4430, ENGI 5931

7952 Robotics and Automation provides the fundamentals in robotic manipulators and arms. The course provides basic understanding in coordinate transformations for spatial description, both kinematical and kinetic analysis, forces and dynamics and finally trajectory generations and path planning.

CR: the former ENGI 7944
LH: at least three 3-hour sessions per semester
PR: ENGI 1040, ENGI 4430

9.8 Academic Term 8 Courses

8000 Ocean and Naval Architectural Engineering Project executes the design project selected and approved in Term 7. The project must illustrate the application of previous design related courses, i.e., decision methods, impact assessments and application of technology. The subject may be ship design, marine system, directed research or a unique design solution. Lectures will be scheduled as required.

LH: 3
PR: ENGI 7000

8003 Small Craft Design presents the fundamentals of naval architecture as practised in small craft design, and develops a methodology for a variety of craft: tenders, lifeboats, planning vessels, dinghies, coastal cruisers and large, state of the art racing yachts. The emphasis is on recreational craft of all sizes, with special emphasis on sailing vessels. Special topics, such as choice of material of construction, scantlings, performance prediction, seaworthiness, tank testing, modern construction materials and techniques are covered. Specific design problems unique to small craft will be covered such as: mast design and sail area determination, and the state of the art in performance prediction. Students will do a design of their choice over duration of the course. Small weekly design studies will be required.

LH: at least 12 hours per semester
PR: ENGI 7035 or the former ENGI 6030

8054 Advanced Marine Vehicles examines the concepts used in the design of advanced marine vehicles. Emphasis will be given to: structural design of craft constructed from fibre reinforced plastics; high speed marine vehicles (powering, structures, seakeeping and model testing); small craft.

LH: at least 9 hours per semester
PR: ENGI 5003

8058 Submersible Design examines the formulation of mission statement, promotes understanding of various design constraints and reviews the historical developments of submersibles design. The course studies the hydrostatics principles of floatation, stability and control of submersibles. Students will perform resistance and propulsion calculations. The course examines maneuvering and control equations, a survey of different materials and their selection criteria, the design of pressure hulls, the structural design of submersibles and a study of various support systems.

LH: at least 12 hours per semester
PR: ENGI 3054

8074 Arctic Ocean Engineering (same as the former ENGI 8674) examines marine ice as an environmental load factor in the context of ships and engineered structures designed for ice covered waters. Topics include types of naturally occurring ice; sea ice formation and characteristics; mechanical strength of sea ice under common modes of ice failure; modes of ice interaction with ships and marine structures; estimation of ice forces on offshore structures; powering requirements for ice breaking ships; regulations and standards for design of ships and offshore structures in arctic environments.

CR: the former ENGI 8674
LH: at least four 3-hour sessions per semester
PR: ENGI 3934, ENGI 4312

8090-8099 Special Topics in Ocean and Naval Architectural Engineering will have topics to be studied announced by the Faculty.

8601-8610 Special topics in Process Engineering will have topics to be studied announced by the Faculty.

8640 Process Engineering Project II is a design project that illustrates the application of previous engineering science and design related courses. Projects will be done by teams of students with individuals concentrating their participation in their own engineering discipline. The project topic will be from the process industry which includes the offshore oil and gas industry, mining and metal processing industry and chemical process industry.

LC: scheduled as required
PR: ENGI 7640

8650 Offshore Oil and Gas Engineering Project II is a multidisciplinary design project that illustrates the application of previous engineering science and design related courses. The project will be done by teams of students with individuals concentrating their participation in their own engineering discipline. The project topic will be from the offshore oil and gas engineering industry. Lectures will be scheduled as required.

CR: the former ENGI 8600
LC: 1
PR: ENGI 7650

8670 Reliability Engineering is an introduction to reliability engineering; physics of failure and failure mechanism, reliability measures and assessment; reliability of components and parts; complex system reliability and availability analysis; and field reliability assessment. The course includes case studies and a project.

PR: completion of Academic Term 6

8671 Safety and Risk Engineering begins with an overview of safety and risk issues in the offshore oil and gas industry. The course examines regulatory requirements; hazards and structured analysis tools; risk terminology and quantified risk analysis (QRA) techniques; and safety assessment studies. The course includes project and case studies.

PR: completion of Academic Term 6

8673 Subsea Pipeline Engineering provides an introduction to subsea pipeline engineering with a focus on the mechanical design of offshore pipelines. Stress-based, design-based and limit-states design for strength and stability are examined. Other fundamental pipeline engineering design issues such as materials specification, flow assurance and installation are reviewed. Principles of geotechnical engineering and pipeline/soil interaction analysis techniques are investigated. Special topics are also reviewed.

LH: 2
PR: one of ENGI 5312, ENGI 5931 or ENGI 6003

8676 Design of Natural Gas Handling Equipment covers process description, design methods, operating procedures, and troubleshooting aspects of gas production facilities including inlet separation operations, hydrate prevention and control, gas dehydration, NGL recovery and dew point control, gas transmission and pipeline design and transportation systems.

PR: completion of Academic Term 6

8677 Process Plant Design and Economics will provide a comprehensive picture of the availability and design of both traditional and current process equipment. Economic and optimization issues relevant to investment, product-cost estimation, and profitability analysis will also be addressed. The course will provide students with tools to evaluate the economics of process industries reflecting current economic criteria, and provide helpful guidelines to approaching, defining, and solving optimization problems.

PR: ENGI 7623

8680 Process Control and Instrumentation begins with an introduction to feedback and feedforward control systems, regulatory and servo control. Topics include modelling thermal, gas, liquid and chemical processes; sensors and transmitters, control valve sizing for liquids and gases, industrial feedback controllers; design of feedback control loops, tuning of feedback controllers, cascade, ratio, override and selective control; feedforward control; multivariable process control; piping and instrumentation diagrams, and control system documentation.

LH: at least four 3-hour sessions per semester.
PR: ENGI 5821

8690 Reservoir Engineering examines fluid pressure regimes, oil recovery factors, calculation of hydrocarbon volumes, reservoir rock characteristics, reservoir fluid properties, porosity and permeability, material balance, and well test analysis.

PR: completion of Academic Term 6

8691 Petroleum Production Engineering examines the procedures and equipment necessary for preparing a well to produce hydrocarbons and maximizing flow rate during the life of the well; techniques for well productivity analysis in under-saturated, saturated, and natural gas reservoirs; well completion configuration tubulars; packers and subsurface flow control devices; completion and work over fluids; perforating oil and gas wells; formation damage; surfactants for well treatment; hydraulic fracturing;

acidizing; scale deposition, removal, and prevention; work over and completion rigs; and artificial lift.

PR: completion of Academic Term 6

8692 Drilling Engineering for Petroleum Exploration & Production covers both offshore and onshore drilling operations and includes: rotary drilling rig operations, well construction sequence, drill string, drill bits, well bore hydraulics, casing and well heads, cementing, well control, directional and horizontal drilling, well planning and fishing operations, and extended reach, horizontal and multilateral well drilling techniques.

PR: completion of Academic Term 6

8693 Petroleum Facilities Engineering - inactive course.

8694 Downstream Processing includes: oil and natural gas processing, oil and gas storage facilities and their design, oil and gas separation processes, petroleum refining processes, and de-bottle necking.

PR: completion of Academic Term 6

8696 Petroleum Refining Engineering will cover crude and refinery products properties and specifications, process description, design methods, operating procedures, and troubleshooting aspects of modern petroleum refining. It also includes hydrorefining, catalytic reforming, hydrocracking, isomerisation, refinery machinery, and utilities.

PR: completion of academic term 6 of the process engineering program

8700 Civil Engineering Project is a practically oriented design project integrated over the five areas in which Civil programs are offered. Students will operate in consultant groups and will complete a design for a typical Civil Engineering undertaking.

LC: scheduled as required
OR: 1 client meeting per week, 1 tutorial per week
PR: completion of Term 7 of the Civil Engineering program

8705 Structural Building Systems examines geometries, loads, safety and serviceability, procedure of using the national building code for evaluating the governing loads on structural members; design of low rise concrete, timber and steel buildings; lateral load-resisting elements and bracing systems; design of foundation systems, footing design, pile cap design, pile group analysis using elastic centre method and inclined pile analysis; prestressed concrete concepts: strength of flexural members, and shear reinforcement for prestressed concrete beams.

LH: at least nine 3-hour sessions per semester
PR: ENGI 6707

8708 Offshore Structural Design examines guidelines and international codes and standards for offshore structural design; understanding design constraints and concepts of offshore fixed and floating structures; design consideration for fixed offshore concrete platform; design consideration for offshore platform and floating production system design, and analysis of various support systems of the offshore structure.

PR: ENGI 7707

8713 Municipal Engineering includes water supply system overview; water consumption estimation; groundwater and surface water sources; oxygen demand and transfer; water treatment processes; water distribution systems and design software; sewer systems and design software; wastewater treatment processes; sludge handling; decentralized and on-site wastewater treatment.

PR: ENGI 7716

8717 Environmental Assessment, Monitoring and Control covers statistical analysis; pollution monitoring, and sampling network design; water quality and air quality modelling; environmental risk assessment; environmental impact assessment; site remediation and hazardous waste management. There are relevant field trips and case studies.

LH: at least ten 3-hour lab sessions per semester
PR: ENGI 4717

8740 Contract Law and Labour Relations is an introduction to law as it applies to engineering activity; the nature of law and legal processes, including standard forms; liens, bonds and insurances; the labour movement in North America; examination of union philosophies and managerial attitudes; labour law and collective bargaining; disputes and settlements.

CR: the former ENGI 6740

PR: completion of Term 7 of the Civil Engineering program

8751 Coastal and Ocean Engineering examines the coastal and ocean environment; ocean circulation and properties; waves and tides; instrumentation and measurement. Additional topics will be drawn from the areas of hydraulic, geotechnical and structural engineering. Relevant field exercises will be conducted.

PR: ENGI 6713

8790-8799 Special Topics in Civil Engineering will have topics to be studied announced by the Faculty.

8801-8805 (Excluding 8804) Special Topics in Computer Engineering will have topics to be studied announced by the Faculty.

8806-8809 Special Topics in Electrical Engineering will have topics to be

studied announced by the Faculty.

8821 Design of Digital Signal Processing Systems is a review of introductory digital signal processing (DSP) principles, including sampling theory and discrete-time systems and signals. Topics include transform analysis of DSP systems; issues in the implementation of DSP systems; design of IIR and FIR digital filters; computable transforms and their use in the frequency analysis of digital signals; and design of DSP systems for current and emerging applications of digital signal processing.
PR: ENGI 7824

8826 Filter Synthesis begins with an introduction to analog filters. The course examines descriptive terminology, transfer functions and frequency response of filters; design of first order passive and active filters; design and analysis of biquad circuit, Sallen key circuit, multiple feedback circuit and state variable filter; RC-CR transformation; inductance simulation circuit; cascade design principle; design of filters with maximally flat magnitude response; design of filters with equal ripple magnitude response; design of Bessel-Thomson filters; analysis and design of switched capacitor filters; and the use of Matlab for design of analog filters.
LH: at least four 3-hour sessions per semester
PR: ENGI 5854

8845 Power System Operation examines symmetrical components; power system fault analysis; power system stability; and power system protection.
LH: at least four 3-hour sessions per semester
PR: ENGI 7844

8853 Electrical Engineering Design Project II continues ENGI 7803 and provides an opportunity for senior students to integrate the knowledge that they have acquired through the junior terms and apply it to solving an electrical engineering design problem. Students work in small teams with the assistance of a faculty mentor to complete detailed design, implementation and testing of an electrical engineering system to solve the problem as defined in 7803.
CR: the former ENGI 8800
LC: 0
OR: weekly meetings with project supervisor
PR: 7803

8854 Computer Engineering Design Project II continues ENGI 7804 and provides an opportunity for senior students to integrate the knowledge that they have acquired through the junior terms and apply it to solving a computer engineering design problem. Students work in small teams with the assistance of a faculty mentor to complete detailed design, implementation and testing of a computer engineering system to solve the problem as defined in 7804.
CR: : the former ENGI 8800
LC: 0
OR: weekly meetings with project supervisor
PR: 7804

8863 Introduction to LSI Design (same as Computer Science 4725) is an introduction to ASICs and ASIC design methodology and includes basic concepts of digital logic design tools and ASIC technology libraries; partitioning for logic synthesis and VHDL coding; constraining designs, synthesizing, simulation and optimization; design for testability; layout and post-layout optimization and SDF generation; and static timing analysis.
LH: at least eight 3-hour sessions per semester
PR: ENGI 5865

8868 Computer and Communications Security examines the techniques used to provide security in communication networks and computer systems. The course focuses on topics in cryptography required to provide privacy, authentication, and integrity, including symmetric key ciphers, public key ciphers, message authentication, and digital signature schemes.
PR: ENGI 6876

8877 Wireless and Mobile Communications (same as the former ENGI 8804) covers the fundamentals and main concepts of wireless and mobile communication systems focusing on the system level design and performance. Main topics to be covered include Introduction to Wireless Communication Systems, Wireless Channel Models, Frequency Reuse Concept, Wireless Multiple Access Techniques (TDMA, FDMA, CDMA), Orthogonal Frequency Division Multiplexing (OFDM), Wireless Systems (GSM, 3G, LTE, etc.).
CR: the former ENGI 8804
PR: ENGI 6871, ENGI 6876

8879 Digital Communications is a review of baseband transmission and basic digital modulation schemes, detection (optimum receiver, matched filter, correlator), error performance, intersymbol interference (ISI),

equalization, the concept of information and entropy, source coding including Huffman coding and linear predictive coding, channel coding including block and convolutional error correcting codes, modulation and coding trade-offs, bandwidth and power efficiency.
PR: ENGI 6871

8894 Real-time Operating Systems examines real-time process scheduling; memory and device management; I/O communications; real-time systems; operating system and hardware concurrency issues; kernel architectures; device drivers; and a survey of available real-time operating systems and embedded platforms.
CR: the former ENGI 7863, Computer Science 4721
PR: ENGI 7894

8903 Mechanical Systems examines mechanical systems design; system simulation, control, and optimization; design optimization and system performance evaluation; design case studies and equipment for overall system design.
PR: ENGI 6901

8911 Corrosion and Corrosion Control examines forms of corrosion; the electrochemical nature of the corrosion process; the mixed potential theory, Pourbaix diagrams and Evans diagrams; corrosion testing, control use by use of materials, selection, cathodic protection, inhibitors, and coatings. There are case studies of selected corrosion problems.
CR: the former ENGI 8962
LH: at least five 3-hour sessions per semester
PR: ENGI 7911

8926 Mechanical Design Project II is the second of two capstone design courses in the Mechanical Discipline. Building on skills acquired in the first, student teams each choose a unique design challenge and then proceed to generate a solution. The problem statements are often drawn from industry and, where possible, interdisciplinary interaction is encouraged (for example, with business, computer science, or other engineering disciplines). In most cases, the problem proponent will act as the "client" and the team is expected to manage the client interaction process as well. Significant emphasis is placed on both oral and written communication of both the process and results. Wherever possible, each system or a critical component of it, will be prototyped and tested.
CR: the former ENGI 8936
LC: scheduled as required
LH: scheduled as required
PR: ENGI 7926

8933 Fatigue and Fracture Mechanics - inactive course.

8935 Pressure Component Design - inactive course.

8937 Machine Dynamics begins with a review of Newton's Law, planar rigid body kinematics and kinetics. Topics include three-dimensional kinematics and kinetics; orientation angles, rotation matrices, Euler's equations. Lagrange's and Hamilton's equations, constraints, dynamic simulation of linkages, mechanism loads, balancing, engine dynamics. There is a student analysis project.
CR: the former ENGI 7945
LH: at least eight 1-hour sessions per semester
PR: ENGI 4932, 6933

8945 Production & Operations Management is an overview of production and operations management, and an examination of decision making and operations strategy; process design and improvement, process flow analysis/simulation, capacity planning; design of value chains, lean systems, plant layout and process planning; operating value chains, MIS systems, inventory and resource management; Relevant computer laboratory exercises are conducted.
CR: the former ENGI 7943
PR: ENGI 6901

8964 Fluid Structure Interactions examines structural vibrations generated by fluid flow. These vibrations can be transient or they can take the form of instability or resonance. The course deals with the following fluid structure interactions: (1) Flow induced vibration of structures (2) Unsteady flow in pipe networks (3) Water wave interactions with structures.
CR: the former ENGI 8904
LH: at least three 3-hour sessions per semester
PR: ENGI 6961, ENGI 6933

8970-8979 Special Topics in Mechanical Engineering will have topics to be studied announced by the Faculty.

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FISHERIES AND MARINE INSTITUTE

FISHERIES AND MARINE INSTITUTE

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Fisheries and Marine Institute Advisory Committee

An Industry-based Advisory Committee, established by an Act of Legislature, with members appointed by the Board of Regents of the University, advises the Fisheries and Marine Institute on fisheries and marine related programs and activities.

Chair Advisory Committee

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Committee Members

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Baird, J., Regional Director General DFO

Blackwood, G., Vice-President, Fisheries and Marine Institute

Butler, R., Vice President, Plant Operations, Cooke Aquaculture

Chaulk, N., Vice-President, Business Development, Verafin

Follett, W., President and CEO, Marine Atlantic

Hannaford, A., President, Student Union, Fisheries and Marine Institute

O'Rielly, A., Deputy Minister, Department of Fisheries and Aquaculture

Pecore, L., President, Genoa Design International Ltd.

Petten, I., Vice-President, Ocean Choice International

Pretty, G., Director, Industrial/Retail, Fish, Food and Allied Workers Union

Secretary to the Committee

Kavanagh, J., B.Sc., M.B.A. *Memorial*

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Division of Corporate Services and External Affairs

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Captain, Training and Research Vessel

Manning, H., Master of Ships Under 500 Tons

Manager, Cafeteria

Haynes, D., D.P.S.E. *Memorial*, I.P.C. *College of the North Atlantic*

Manager, Finance and Contracts

Christian-Quinton, F., B.Comm. *Memorial*

Manager, Human Resources

Fowler, M., B.Comm. *Memorial*

Manager, Information and Communication Technologies

Pike, T., B.Sc., *Memorial*, P.M.P.

Manager, Facilities and Technical Services

Sheehan, B.

Manager, Holyrood Marine Base and Marine Services

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Manager, Marketing and Business Development

Anderson, G.L., B.A. *Memorial*

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Dr. C.R. Barrett Library

Lawton, C., B.N., M.L.S. *Dalhousie*; Head, Public Services

White, L., B.A. *Memorial*, M.L.S. *Dalhousie*; Associate University Librarian (Marine Institute & Music Resource Centre)

Co-ordinator of Advanced Programs

Smith, N., B.Comm. *Memorial*

Enrolment Management Coordinator

Clarke, A., B.Sc., M.Ed. *Memorial*

Institute Registrar

Noftall, L., B.Comm. *Memorial*

Placement Officers

Anstey, A.

Foote, D., B.A., M.Ed. *Memorial*, C.C.C.

Highsted, A., B.Comm. *Memorial*

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Hatfield, R., Dip. Recreation Technology *CNA*

Student Liaison Officer

McMeekin, R., B.A. *Memorial*

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Brockerville, B., B.Comm., M.B.A. *Memorial*, C.M.A.

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International Program Officer

Cole, T., B.A, M.A. *University of East Anglin, UK*

Power, M., B.A. *St. Francis Xavier, M.A. Queens*

International Student Co-ordinator

Pittman, E., B.A. *Soochow, M.A. Victoria*

International Program Officer

Cole, T., BA, MA, *University of East Anglin, UK*.

Project Leader

Penney, G., B.P.E., B.Ed. *Memorial*, M.Ed. *U.N.B.*, M.C.P.M. *York*

School of Fisheries

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Head

Bonnell, C., B.Sc. *Memorial*, Adv. Dip. *Marine Institute*

Co-ordinator of Programs

Rideout, K., B.Sc., M.M.S. *Memorial*, Graduate Diploma *Marine Institute*

Director, Centre for Aquaculture and Seafood Development

Manuel, H., B.Sc.(Hons.), M.Sc., M.B.A. *Memorial*

Director, Centre of Community Based Education

Parsons, C., Chief Mate, Near Coastal

Director, Centre for Fisheries Ecosystems Research

Rose, G.A., B.Sc. *Guelph*, M.Sc. *Laurentian*, Ph.D. *McGill*

Director, Centre for Sustainable Aquatic Resources

Winger, P., B.Sc. *Dalhousie*, M.Sc., Ph.D. *Memorial*

Administrative Director, Centre for Fisheries Ecosystems Research

Brown, T., B.Sc., M.M.S. *Memorial*

Assistant Director, Centre for Sustainable Aquatic Resources
Moret, K., B.Sc., M.Sc. *Memorial*, M.C.P.M. York, P.M.P.

Departmental Project Co-ordinator
Hunt, B.A., B. Comm. *Memorial*, C.M.A.

School of Maritime Studies

Head
Dutton, C.R., B.Eng., B.Voc.Ed., M.Eng. *Memorial*

Co-ordinator of Programs
Anstey, F.A., B.A., B.Voc.Ed., Cert. Bus. Adm., M.Ed. *Memorial*,
Master Intermediate Voyage

Director, Centre for Marine Simulation
Hearn, C., Dip.N.Sci. *Marine Institute*, Master Mariner

Director, Offshore Safety and Survival Centre
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Assistant Director, Operations and Administration, OSSC
Escott, R.

**Manager, Applied Research and Industrial Projects, Centre for
Marine Simulation**
Halfyard, M., B.Sc., M.B.A. *Memorial*

Manager, SERT
Harnum, C., N.F.P.A. 472, N.F.P.A. 1001 Level III, N.F.P.A. 1002,
N.F.P.A. 1003, N.F.P.A. 1041 Level II

School of Ocean Technology

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Head
Howse, D., B.Eng., M.Eng., M.B.A. *Memorial*

Co-ordinator of Programs
Brett, P. B.Sc., B.Ed., M.Sc. *Memorial*

Director, Centre for Applied Ocean Technology
Gillespie, R., B.Sc. *McMaster*, M.Sc. *Memorial*, P.Geo.

Academic Personnel

Academic and Student Affairs

www.mi.mun.ca/departments/

Fisher, P., B.Sc., P.G.C.E., Ac.Dip.Ed. *London*, M.Ed. *Memorial*,
Ph.D. *Leeds*, Associate Vice-President (Marine Institute)

Breen, C.A., B.Sc., M.Ed. *Memorial*

Fleet, B., R.N., B.Voc.Ed., M.Ed. *Memorial*

Howse, D.M., B.Sc., B.Ed., M.Ed. *Memorial*

Janes, H., B.A., B.Ed., M.Ed. *Memorial*

Kerr, B.D., B.Sc.F. *New Brunswick*, M.Ed. *Memorial*

Lawton, C., B.N., M.L.S. *Dalhousie*

Molloy, C., B.A. *Memorial*, M. Distance Ed. *Athabasca*

Walsh, C., B.Sc., B.Ed. *Memorial*, M.Ed. *U.B.C.*

School of Fisheries

www.mi.mun.ca/sof/

Bath, R., B.M.S. *Memorial*, F.M.1

Bonnell, C., B.Sc. *Memorial*, Adv. Dip. *Marine Institute*

Bonnell, L., B.Sc., M.Sc. *Memorial*

Blundon, J., B.Sc., B.Ed. *Memorial*, Grad.Dip.Tech. *Marine
Institute*, M.M.S. *Memorial*

Couturier, C.F., B.Sc. *New Brunswick*, M.Sc. *Dalhousie*

Durnford, E., Dip.Tech. *Marine Institute*, B.Sc., B.Ed., M.Sc.
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Fortune, S., B.Sc., B.Ed. (Post-Secondary) *Memorial*, Adv. Dip.
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Greenham, J., FMI, Master Near Coastal, Dip Nautical Science
Marine Institute, B.M.S. *Memorial*

Halfyard, L., B.Sc., B.Ed., *Memorial*, M.Sc., Ph.D. *Sterling*

Harnum, G., Dip.Tech. *Marine Institute*, B.Tech. *Memorial*

Hayter, R., Dip.Tech. *College of Fisheries*, B.Tech. *Memorial*

Hyde, R., Voc.Cert. *Marine Institute*, B.Voc.Ed. *Memorial*,

Tech.Cert. *Marine Institute*, C.B.Ad. *Memorial*

Kennedy, E., Dip.Tech. *College of Fisheries*, B.Tech. *Memorial*

Mercer, K.B., B.Sc. *Dalhousie*, Adv.Dip. *Marine Institute*

Milley, N., B. A., B.Ed., M.M.S. *Memorial*

Morris, P., FM1

Onodenalore, C., B.Sc., M.Sc. *University of Benin*, B.Ed, M.Sc.,
Ph.D. *Memorial*

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Perry, J., B.Sc. (Nutrition), B.Ed. (Post-Secondary) *Memorial*, Adv.
Dip. Food Safety *Marine Institute*

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Pippy, M.C., B.Sc., B.Ed., M.A.Sc. *Memorial*

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Safety *Marine Institute*

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M.M.S. *Memorial*

Robertson, K., B.Sc., Adv.Dip., B.Ed., M.A.Sc. *Memorial*

Samson, L., Dip. Food Technology *Marine Institute*

Strickland, J., Dip. Tech. *Marine Institute*, B.Sc., M.B.A. *Memorial*

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Whiteway, G., Dip.Tech. *College of Fisheries*, B.Sc., B.Voc.Ed.,
M.Sc. *Memorial*

School of Maritime Studies

Dutton, C. R., B.Eng., B.Voc.Ed., M.Eng. *Memorial*, (School Head)

Alexander, J., N.F.P.A. 1001 Level I & II, NFPA 1003, NFPA 1041
Level 1

Anastasiadi, A., Dip.Eng. *Batumi Marine College USSR*, Marine
Engineer (2nd Class)

Anstey, F.A., B.A., B.Voc.Ed., Cert.Bus.Adm., M.Ed. *Memorial*,
Master Intermediate Voyage

Azizan, H., Dip.Tech. *College of Fisheries*, B.Voc.Ed., M.Ed.,
M.M.S. *Memorial*, M.M.M. *Dalhousie*, M.Sc. *Plymouth*, Master
Mariner

Bae, C., B.Eng., M.Eng. *Inha University*

Baker, K., Dip.Tech. *College of Fisheries*

Barron, R., Dip. Tech. Nautical Science *Marine Institute*,
Watchkeeping Mate

Bartlett, D., IFSTA *Oklahoma State University*, Fire Instructor I & II;
Fire Inspector I & II; Officer I & II; Fire Cause Determination;
Hazardous Material Identification/Response; NFPA II

Blackmore, D., B.Voc.Ed. *Memorial*, F.M.1

Brake, D. J., B.Sc., B.Ed., B.A., M.Ed. *Memorial*

Brazil, D., Dip. Tech. *Marine Institute*, Master Intermediate Voyage

Budgell, D. B.Sc., B.A., B.Ed., M.Ed.(Post Secondary), M.Ed.
Memorial

Callahan, C., B.Sc., B.Ed. *Memorial*

Clarke, C., Dip. Tech. *Marine Institute*, Master Intermediate
Voyage

Clouter-Gergen, E., B.A., B.Ed. *Memorial*, M.Ed. *College of St.
Scholastica*

Courage, A., B.Eng., M.A.Sc., P.Eng.

Cross, J., Dip. Tech. *Georgian*, B.Sc. *Queens*, M.Eng. *Memorial*,
P.Eng. O.N.II

Curtis, S.L., Dip.Tech. *Marine Institute*, Dip.Voc.Ed. *Memorial*
C.E.T.

Dalley, C., B.A., B.A.(Ed.), M.Ed. *Memorial*

Dohey, P., B.Ed. *Memorial*, M.Sc. *University of Lester*

Donnelly, D., Master Mariner

Doyle, T., NFPA 472, NFPA 1001 Level 1 & II, NFPA 1002, NFPA
1003, NFPA 1041 Level 1 & II

Drake, S., Master Mariner

Dunphy, L., Cert.Adv. Instructor Methodology *St. Mary's*

Dwyer, D., Diploma of Nautical Science, Master Intermediate
Voyage

Ennis, J., Dip. Tech. *College of Fisheries*, Master Mariner

Fewer, J., Restricted Watch Keeping, FM III, Marine Diesel
Mechanic Engine Room Rating Certification, NFPA 472, NFPA
1001 Level I & II

Fiander, G. R., Dip.Tech. *Marine Institute*, Master Intermediate
Voyage

Francis, D., Dip. Post Secondary Ed., B.M.S. B.Ed. *Memorial*,
Diploma Marine Surveying *Lloyds*, Marine Engineer (1st Class)

Freeborn, A., Marine Engineer (1st class)

Gallant, T., NFPA. 472, NFPA 1001 Level I-III, NFPA 1002, NFPA
1003, NFPA 1041 Level I & II

Goulding-Harnum, S., B.Ed. *Memorial*, NFPA 472, NFPA 1001

Level I & II, NFPA 1041 Level I & II, NFPA 1021 Level I - IV

Hanlon, C., Dip.Tech. Marine Engineering *Marine Institute*, Marine
Engineer (2nd class motor)

Hargreaves, B., Fishing Master I, Master Mariner, Cert. Post-
Secondary Education *Memorial*

Harvey, G.

- Hopkins, C., Dip.Tech. *Marine Institute*, B.M.S. *Memorial*, NFPA 1001 Fire Fighter 2, First Mate Intermediate Voyage
- Hye-Knudsen, K., Master Mariner
- Kalra, C.S., Master Mariner, M.C.S.E., Cert. Post-Secondary Education *Memorial*
- Kavanagh, T., Dip.Tech. *Marine Institute*, Marine Engineer, (3rd class motor, 4th class steam, 4th class power)
- Kearney, G., Dip. Tech. *Marine Institute*, Dynamic Positioning Certificate *Nautical Institute*, Master Mariner
- Kennedy, J., Master Mariner
- Kiash, R. S., Dip.Voc.Ed. *Memorial*, C.Eng., Marine Engineer (1st class motor & steam), C.E.T.
- Lacour, D., B.Comm. *Memorial*, NFPA Level 2 Firefighting Cert. *University of Oklahoma*, Paramedic I
- Lambert, F., Dip. Tech *Marine Institute*, Master Mariner, Cert. Post-Secondary Education *Memorial*
- Lawlor, G., NFPA II
- Marshall, M., B.Eng., M.Eng., Ph.D. *Memorial*, P.Eng.
- Martin, P., Master Mariner
- McCulloch, C., B.A. *St. Francis Xavier*, M.A., DPW *Memorial*
- Meadus, F., CD, Communications Specialist, Dip. Post Secondary Ed. *Memorial*, Cert. Occupational Health & Safety *College of the North Atlantic*
- Mercer, R., B.Voc.Ed., M.Ed. *Memorial*, Master Mariner
- Molloy, G.
- Mueller, U., Master Mariner
- Norris, M., Dip. Tech. Technical Marine Engineering *Marine Institute*, Third Class Marine Engineer
- Noseworthy, D., Red Seal Certification (Machinist & Millwright)
- O'Brien, I., Dip. Tech. *Marine Institute*
- O'Keefe, T., Dip. Tech. *Marine Institute*, B.Tech., B.Ed., M.Ed. *Memorial*
- Oliver, J., Primary Care Paramedic, Emergency Medical Responder Instructor Trainer
- O'Quinn, B., N.F.P.A 472, N.F.P.A 1001 Level I & II, N.F.P.A. 1002, N.F.P.A. 1003, N.F.P.A. 1041 Level 1
- Parsons, J.R., Dip. Tech. *College of Fisheries*, B.M.S., Cert. Business Administration, B.Ed. *Memorial*, M.Sc. *Maine Maritime*, Ph.D. *Plymouth*, FCIP, CRM; Master Mariner
- Parsons-Butler, K., B.Sc., B.A., B.Ed., Dip. Adult Ed., M.Ed. *Memorial*
- Peach, A., B.A. *Memorial*, M.A. *Toronto*
- Pelley, J., B.Sc., B.Ed. *Memorial*
- Piercey, H., NFPA 472, NFPA 1001 Level I & II, NFPA 1002, NFPA 1041 Level I & II, NFPA 1021 Level I-4
- Pond, J., B.Eng., Cert. Post-Secondary Education *Memorial*
- Pynn, W., Dip. Tech. *Marine Institute*, MBA *University of Warwick*
- Rees, J., Journeyman Welder Certificate with Interprovincial Red Seal SAIT, Cert. Post-Secondary Education *Memorial*
- Ryan, J. C., B.P.E., B.Ed., B.Sc., B.A. *Memorial*
- Saric, M., M.Ed., *Uppsala*, M.Sc. *Dalhousie*, AIT (GCAT) Dip.
- Saxena, V., Master Mariner, HND Nautical Science UK, Cert. Post-Secondary Education *Memorial*
- Shanahan, J., Dip.Voc.Ed. *Memorial*, Marine Engineer (4th Class), Millwright (Indust.Mech.) Interprovincial Cert.
- Short, C., Master Mariner
- Simoes Ré, J.M., Curso Elementar de Pilotagem *ENIDH-Lislon*, Curso Complementar de Pilotagem *ENIDH-Lisbon*, Capitao Marinha Mercante, Master Mariner
- Singleton, J., B.Eng. *Memorial*, P.Eng.
- Small, G., B.Sc., B.Ed. *Memorial*
- St. Croix, J., B.A., B.Ed., M.Ed., M.A. *Memorial*
- Stapleton, G., NFPA 472, NFPA 1001 Level I-III, NFPA 1002, NFPA 1003, NFPA 1041 Level I-III
- Stone, B., B.Eng., M.Eng., M.B.A. *Memorial*
- Strowbridge, K., Dip. Tech. (MESD), Dip. Tech. (NARC) *Marine Institute*, Cert. Post-Secondary Education *Memorial*
- Tucker, J., B.Eng., M.Eng. *Memorial*, P.Eng.
- Turpin, D., Marine Engineer (2nd Class Steam), Power Engineer (4th Class)
- Ward, E., Dip.Voc.Ed. *Memorial*
- Wareham, M., Dip. Tech. (MESD), Dip. Tech. (NA) *Marine Institute*, B.Eng. *Memorial*
- Webber, K., Heavy Oil Operations Technician Certificate, 4th Class Power Engineer, Gas Processing Operations *Lakeland College*
- White, A., Dip.Tech. *College of Fisheries*, B.Tech., B.M.S. *Memorial*, Marine Engineer (1st Class Motor, 4th Class Steam)
- Williams, G., Dip. Tech. *College of Fisheries*, Master Mariner
- Woolridge, D., B.Sc., B.Ed., M.Ed. *Memorial*
- Young, J., Voc.Cert. *Marine Institute*, NFPA-Level 3 Firefighting Cert. *Virginia Fire Programs*, NFPA Level 3 Cert. *University of Oklahoma*, NFPA Fire Officer 1, NFPA Fire Instructor 1, High Angle Rescue Instructor, Confined Space Rescue Instructor, Certified Registered Safety Professional (CRSP)

School of Ocean Technology

www.mi.mun.ca/sot/people/

- Howse, D., B.Eng., M.Eng., M.B.A. *Memorial*, P.Eng. (School Head)
- Brett, P., B.Sc., B.Ed., M.Sc. *Memorial*
- Chaulk, C., B. Eng., B.Ed., M.Ed. *Memorial*
- Coronado, C., B.Eng. *Monterrey*, M.Sc. *Chalmers*, Ph.D. *École Polytechnique*
- Elliott, P., B.Sc., B.Ed., Dip. Tech. Ed., M.Ed. *Memorial*
- Halfyard, P., Cert. Tech. *College of Fisheries*, Cert. Tech. *Marine Institute*
- Haynes, D., Dip. Tech. *College of Trades and Technology*, B.Eng. *Memorial*, P.Eng.
- Keats, C., Dip. Tech. *Marine Institute*, B. Tech., M.Env.Sci. *Memorial*
- Matchem, J., B. Eng., B.Ed. *Memorial*
- Matchim, R., B.Eng. *Memorial*
- Mekeever, T. J., B.Sc., M.Sc. *Memorial*, Graduate Diploma *Marine Institute*
- Piercey, V., B.Eng. *Memorial*, P.Eng.
- Ragunathan, J., B.Eng. *Madurai Kamaraj University India*, M.Eng. *Bharathidasan University India*, Ph.D. *Memorial*
- Roche, R., B.Eng. *Memorial*
- Ryan, P., Dip Tech., B. Eng. *College Militaire Royale du Canada*, B.Ed., M.E.M. *Memorial*, P. Eng., CD
- Sekaran, K., B.E. *University of Madras*, M.Eng. *Memorial*
- Smith, W., Cert. Red Seal, Dip. Tech. *College of Fisheries*, B. Tech, Cert. Voc. Ed. *Memorial*, C.E.T.
- VanderVoort, R., B.Sc. *Windsor*
- Venkatraman, S., B.Eng. *Bharathidasa*, M.Eng. *Sastra*
- Way, B., B.Eng., M.B.A., M.Ed. *Memorial*, P.Eng.
- Wells, D., D. Tech, B. Eng., B.Ed. (Post-Secondary), *Memorial*, P.Eng.
- Wu, L., B.Eng. *Northwestern Polytech University*, M.Eng. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 School Description

The Fisheries and Marine Institute was established in 1964 as the College of Fisheries, Navigation, Marine Engineering and Electronics. It became affiliated with the University in 1992 and since then has continued to grow as a world-class centre of marine technology and education. The official name is the Fisheries and Marine Institute of Memorial University of Newfoundland, but it is commonly known as the Marine Institute.

The main campus of the Marine Institute overlooks the city of St. John's from within Pippy Park, which has extensive hiking trails and recreational facilities. This building houses a flume tank, a seafood processing plant, freshwater aquaculture research and development facilities, and extensive marine simulation facilities. The Dr. C. R. Barrett Library, located at this campus, houses one of Canada's largest marine-related collections. In addition, the Institute manages the Offshore Safety and Survival Centre in Foxtrap, the Safety and Emergency Response Training (SERT) Centre in Stephenville and a marine base on the south side of St. John's harbour.

The Marine Institute provides a full range of programs focussing on fisheries and marine science and technology. In addition to undergraduate and graduate degrees, the Institute offers advanced diplomas, diplomas of technology, and technical and vocational

certificates. The Institute also runs a variety of short courses and industrial response programs.

All programs and courses are designed to provide students with the knowledge and skills required for success in the workforce. The Institute seeks the advice of industrial program advisory committees in the ongoing development and review of programs. Whenever appropriate, it submits programs for national accreditation, providing graduates with mobility in professional employment.

2.1 The Marine Institute Students' Union (MISU)

The Marine Institute Students' Union (MISU) was incorporated in 1991. It is committed to the provision of services to students as well as representing the student body at the national, provincial and institute levels in matters affecting the quality of student life.

The MISU is a prominent member of The Canadian Federation of Students (CFS). The CFS provides a voice for students at over 70 universities, colleges, and technical institutes across Canada including more than 32,000 students in Newfoundland and Labrador. The national body has a strong presence in Ottawa and ensures students' opinions are known on Parliament Hill. Services provided by CFS include the National Student Health Network, student saver cards, Student Work Abroad Program (SWAP), International Student Identity Cards (ISIC), and Travel Cuts. The CFS Newfoundland and Labrador (CFS-NL) ensures student's opinions are known in the Provincial House of Assembly. The MISU takes part in the CFS bi-annual conferences to discuss and form policies on behalf of students.

Within the Institute, the MISU has representation on a number of committees, including the Marine Institute Industry Advisory Committee and the Academic Council, where the Union members ensure that student well-being is at the forefront in all policies affecting student life. The MISU provides the student health plan. Many social and recreational activities are planned and sponsored by the MISU including Winter Carnival held during the last week of January. Profits from the social activities are returned to the students in the form of scholarships. The MISU manages and maintains the student lounge -The Mariner's Lounge.

3 Description of Degree Programs

Students must meet all regulations of the Fisheries and Marine Institute in addition to those stated in the University's general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

For information about non-degree programs and upgrading opportunities refer to www.mi.mun.ca.

3.1 General Degrees

The Marine Institute offers two undergraduate degrees. For specific details on each degree refer to the appropriate **Degree Program Regulations**. The courses in the programs are available on campus and by distance delivery.

3.1.1 Bachelor of Maritime Studies

The Bachelor of Maritime Studies program prepares graduates for career advancement in the maritime and related industries. It is designed for students who have graduated from accredited, or Transport Canada approved, diploma of technology programs in the marine fields. The program is also available to professional mariners, professional fish harvesters and certain Canadian Forces (Naval Operations) personnel. Courses in the program provide the student with an introduction to human resource and business management concepts, and the social contexts in which their careers will be based. The program consists of 39 credit hours in addition to work completed in a diploma program and can be taken on a full-time or part-time basis.

3.1.2 Bachelor of Technology

The Bachelor of Technology program prepares graduates for career advancement in health science technology or engineering/applied science technology industries. It is designed for students who have graduated from an accredited diploma of technology program that is applicable to one of two optional areas. Courses in the program provide the student with an introduction to human resource and business management concepts, and the social contexts in which their careers will be based. The program consists of 39 credit hours in addition to work completed in a diploma program and can be taken on a full-time or part-time basis.

The optional areas are:

- Engineering and Applied Science Technology Option, which is normally chosen by students who have an engineering/applied science technology diploma.
- Health Sciences Technology Option, which is normally chosen by students who have a health sciences technology diploma.

4 Admission/Readmission Regulations for Degree Programs

In addition to meeting the admission/readmission requirements for the University students must also meet the admission/readmission requirements for the Marine Institute. See **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)** for University requirements.

4.1 General Information

1. All application forms must be submitted to the Admissions Office, Office of the Registrar, Memorial University of Newfoundland, St. John's, NL, A1C 5S7.
2. Students who want to take University courses concurrently with diploma courses should check either Pre-Bachelor of Maritime Studies or Pre-Bachelor of Technology on the Memorial University of Newfoundland application for admission/readmission form.
3. For the purpose of satisfying the requirements of **UNIVERSITY REGULATIONS - Year of Degree and Departmental Regulations - All Other Faculties and Schools**, Pre-Bachelor of Maritime Studies and Pre-Bachelor of Technology students will normally follow regulations in effect in the academic year in which the student first completes a course(s) in the Bachelor of Maritime Studies or Bachelor of Technology program as a Pre-Bachelor of Maritime Studies or Pre-Bachelor of Technology student. However, the student may elect to follow subsequent regulations introduced during the student's tenure in a program.
4. Students may not obtain both a Bachelor of Maritime Studies and a Bachelor of Technology degree based upon completion of the same diploma of technology.

4.2 Admission Requirements for Applicants to the Bachelor of Maritime Studies Program

1. An applicant must submit a form for admission/readmission to the University. This application must include all required documentation including proof of the diploma or certificate required for admission in a specific category.

2. Categories for admission to the Bachelor of Maritime Studies

Applicants must meet the general admission/readmission requirements of the University and be eligible for admission to the Bachelor of Maritime Studies program in one of the following categories:

- Category A: applicants holding a diploma from the Marine Institute in nautical science, marine engineering technology, naval architecture technology or marine engineering systems design technology,
 - Category B: applicants holding a Canadian Technology Accreditation Board accredited, or Transport Canada approved, diploma in marine engineering technology or nautical science,
 - Category C: applicants holding a Canadian or non-Canadian diploma similar to an accredited or Transport Canada approved Marine Institute diploma in nautical science, marine engineering technology, naval architecture technology or marine engineering systems design technology,
 - Category D: applicants holding a Transport Canada Certificate of Competency at the Master Mariner, Fishing Master First Class or Engineering First Class level or equivalent,
 - Category E: applicants holding a Transport Canada Certificate of Competency at the Master, Intermediate Voyage level or equivalent,
 - Category F: applicants holding a Transport Canada Certificate of Competency at the Engineering Second Class level or equivalent,
 - Category G: applicants who have Canadian Forces (Naval Operations) training of a type and at a level acceptable to the Admissions Committee.
3. Applications to the program will be considered by the appropriate admissions committee(s).
 4. In accordance with the **UNIVERSITY REGULATIONS - Residence Requirements - Second Degree**, students completing the Bachelor of Maritime Studies program, as a second degree, must complete a minimum of an additional 9 credit hours beyond a first degree and the work completed as required for admission to this degree.

4.3 Admission Requirements for Applicants to the Bachelor of Technology Program

1. An applicant must submit a form for admission/readmission to the University. This application must include all required documentation including proof of the diploma or certificate required for admission in a specific category.
2. **Categories for admission to the Bachelor of Technology Program**
Applicants must meet the regular admission requirements of the University and be eligible for admission in one of the following categories:
 - Category A: applicants holding a diploma of technology accredited by the Canadian Medical Association (CMA),
 - Category B: applicants holding a diploma of technology in engineering/applied science technology accredited by the Canadian Technology Accreditation Board (CTAB),
 - Category C: applicants holding a diploma of technology comparable to a Marine Institute or College of the North Atlantic three-year CTAB accredited diploma in engineering/applied science technology,
 - Category D: applicants holding a diploma of technology comparable to a College of the North Atlantic three-year CMA accredited diploma.
3. Upon acceptance into the program, students will be admitted to one of the two options: the Engineering and Applied Science Technology Option or the Health Sciences Technology Option. Students may be permitted to change their option with the approval of the Marine Institute Committee on Undergraduate Studies.
4. Applications to the program will be considered by the appropriate admissions committee(s).
5. In accordance with the **UNIVERSITY REGULATIONS - Residence Requirements - Second Degree**, students completing the Bachelor of Technology program, as a second degree, must complete a minimum of an additional 9 credit hours beyond a first degree and the work completed as required for admission to this degree.

5 Degree Program Regulations

5.1 Bachelor of Maritime Studies

- Students must complete 39 credit hours in addition to the work which was required under their category of admission.
- The required and elective courses are listed in **Table 1 Bachelor of Maritime Studies - Course Requirements For All Students**. These courses may have prerequisites which have to be met.
- Students admitted to the program in certain categories may have to complete additional requirements. These are listed in **Table 2 Bachelor of Maritime Studies - Additional Requirements Based on Category of Admission**.
- When transfer credit has been granted for a course(s) taken to satisfy the requirements for admission students must take an additional elective University course(s).
- To meet the academic requirements for a Bachelor of Maritime Studies a candidate shall successfully complete the following program with a minimum overall average of 60% and a minimum numeric grade of 50% in each course required for the degree.
- Students must take 39 credit hours with 21 credit hours from the required courses and 18 credit hours from the electives.
- At least one elective must be chosen from each of the groups A and B.

Table 1 Bachelor of Maritime Studies - Course Requirements for All Students

Required Courses	Group A Electives	Group B Electives
Business 1000 3 credit hours in English at the 1000 level MSTM 4001 MSTM 4004 MSTM 4040 MSTM 4060 or an additional 3 credit hours in English at the 1000 level MSTM 4100 MSTM 4200	Business 1101 or 2102 Business 4000 MSTM 4002 MSTM 4005 MSTM 4011 MSTM 4012 MSTM 4013 MSTM 4020 MSTM 4050 MSTM 4080 Statistics 2500	Economics 2010 Economics 2020 Economics 3030 Economics 3360 Geography 3510 Geography 4410 MSTM 4030 Philosophy 2801 Political Science 3210 Political Science 4200 Sociology 2120 Sociology 3120

Table 2 Bachelor of Maritime Studies - Additional Requirements Based on Category of Admission

Category of Admission	Additional Requirements
A: Students holding a diploma from the Marine Institute in nautical science, marine engineering technology, naval architecture technology or marine engineering systems design technology.	No additional requirements.
B: Students holding a Canadian Technology Accreditation Board accredited, or Transport Canada approved, diploma in marine engineering technology or nautical science.	No additional requirements, with the possible exception of course prerequisites.
C: Students holding a Canadian or non-Canadian diploma similar to an accredited or Transport Canada approved Marine Institute diploma in nautical science, marine engineering technology, naval architecture technology or marine engineering systems design technology.	May have to complete additional requirements.
D: Students holding a Transport Canada Certificate of Competency at the Master Mariner, Fishing Master First Class or Engineering First Class level or equivalent.	No additional requirements, with the possible exception of course prerequisites.
E: Students holding a Transport Canada Certificate of Competency at the Master, Intermediate Voyage level or equivalent.	Either: <ul style="list-style-type: none"> • Transport Canada - Ship management 093 (Master Mariner) or • Both of: Marine Institute Business and Organizational Management 3114 and Marine Institute Business and Organizational Management 3204. The prerequisite(s) for Business and Organizational Management 3204 will be waived.
F: Students holding a Transport Canada Certificate of Competency at the Engineering Second Class level or equivalent.	Transport Canada - Applied Mechanics (1st Class) Transport Canada - Thermodynamics (1st Class) Transport Canada - Electrotechnology (1st Class)
G: Students who have Canadian Forces (Naval Operations) training of a type and at a level acceptable to the Admissions Committee.	May have to complete additional requirements.

5.2 Bachelor of Technology

Students must complete 39 credit hours in addition to the work which was required under their category of admission.

The required and elective courses are listed in **Table 3 Bachelor of Technology - Engineering and Applied Science Technology Option** and **Table 4 Bachelor of Technology - Health Science Technology Option**. These courses may have prerequisites which have to be met.

When transfer credit has been granted for a course(s) taken to satisfy the requirements for admission, students must take an additional elective(s) in the Bachelor of Technology program.

To meet the academic requirements for a Bachelor of Technology a candidate shall successfully complete the program with a minimum overall average of 60% and a minimum numeric grade of 50% in each course required for the degree.

5.2.1 Bachelor of Technology - Engineering and Applied Science Technology Option

- Students must take 39 credit hours with 24 credit hours from the required courses and 15 credit hours from the electives.
- At least one elective must be chosen from each of the groups A and B.

Table 3 Bachelor of Technology - Engineering and Applied Science Technology Option

Required Courses	Group A Electives	Group B Electives
3 credit hours in English at the 1000 level MSTM 4010 MSTM 4020 MSTM 4040 MSTM 4060 or an additional 3 credit hours in English at the 1000 level MSTM 4090 MSTM 4100 MSTM 4200 Statistics 1510 or 2500	Business 1000 Business 1101 or 2102 Business 4000 Economics 3360 MSTM 4011 MSTM 4012 MSTM 4013 MSTM 4050 MSTM 4070 MSTM 4080	Economics 2010 Economics 2020 Economics 3080 Geography 4410 MSTM 4014 MSTM 4030 Philosophy 1100 Philosophy 2571 Religious Studies 3830 Sociology 2120

5.2.2 Bachelor of Technology - Health Science Technology Option

- Students must take 39 credit hours with 18 credit hours from the required courses and 21 credit hours from the electives.
- At least one elective must be chosen from each of the groups A, B, and C.

Table 4 Bachelor of Technology - Health Science Technology Option

Required Courses	Group A Electives	Group B Electives	Group C Electives
3 credit hours in English at the 1000 level MSTM 4040 MSTM 4060 or an additional 3 credit hours in English at the 1000 level MSTM 4090 MSTM 4100 MSTM 4200 Nursing 5210	Business 1000 Business 1101 or 2102 Business 4000 Economics 3360 MSTM 4011 MSTM 4012 MSTM 4013 MSTM 4050 MSTM 4080	Economics 2010 Economics 2020 Economics 3080 Geography 4410 MSTM 4014 MSTM 4030 Philosophy 1100 Philosophy 2551 or 2552 or 2553 Philosophy 2571 Religious Studies 3830 Sociology 2120	Biology 2040 or 2041 Nursing 3023 Nursing 4002 Nursing 4701 Psychology 2010 or 2011 or 2012 Psychology 2800 Sociology 2110

6 Waiver of Degree Program Regulations

Students requesting waiver of University academic regulations should refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**. Every student also has the right to request waiver of degree program regulations.

6.1 General Information

- The Marine Institute reserves the right in special circumstances to modify, alter, or waive any Marine Institute regulation in its application to individual students where merit and equity so warrant, in the judgement of the Committee on Undergraduate Studies of the Marine Institute.
- Students requesting a waiver of a Marine Institute regulation must submit their request in writing to the head of the program who will forward a recommendation to the Chair of the Committee on Undergraduate Studies of the Marine Institute. Medical and/or other documentation to substantiate the request must be provided.
- Any waiver granted does not reduce the total number of credit hours required for the degree.

7 Appeal of Regulations

Any student whose request for waiver of Marine Institute regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

8 Course Descriptions

All courses of the Marine Institute degree programs are designated as MSTM (Maritime Studies/Technology Management).

4001 The Organization and Issues of Shipping will provide students with knowledge of the economic shipping environment with respect to Canada. The course will develop an understanding of basic trade theory, patterns of trade and sea routes, commodities traded by sea, and the organizational structure of shipping companies.

CR: the former Engineering 8065; Maritime Studies 4001

4002 The Business of Shipping will provide students with an understanding of financial statements, costs, revenues and financial performance of shipping companies as well as computing, voyage and annual cashflows. The course will develop an understanding of marine insurance and forecasting, and risk management.

PR: MSTM 4001

4004 Marine Environmental Management will introduce students to the requirements for the safe management of the marine environment. The course will introduce major environmental problems and identify the major threats to the marine environment. It will provide a working knowledge of these threats and consider the possible counter measures that may be employed by employees in the marine industry.

PR: Admission to the Bachelor of Maritime Studies program

4005 Trends and Issues in International Shipping will provide students with an understanding of how regulatory bodies and their legislation have evolved to affect the modern seafarer trading internationally. This course will develop an understanding of the various rules and regulations dealing with Classification, ISM, MAPROL, SOLAS and SIRE inspections which have to be dealt with on a daily basis at sea.

PR: Admission to the Bachelor of Maritime Studies program

4010 Assessment and Implementation of Technology (formerly Technology 4010) examines the effects of technology on the physical, socio-economic, historic, cultural and aesthetic environments. The course also addresses relevant legislation, the generation and evaluation of project/product alternatives, and the prediction, verification and mitigation of technological effects.

CR: the former Technology 4010

4011 Introduction to Intellectual Property and its Management is an introductory course to the management of Intellectual Property Rights (IPRs). This course will cover the philosophical rationale for intellectual property rights, its technical and legal considerations, its implications to the development of science and technology and its economic impact in society.

PR: Admission to the Bachelor of Technology or the Bachelor of Maritime Studies program

4012 Occupational Health and Safety Legislation and Management is an introduction to occupational health and safety issues in a technical/industrial context. Students will gain a knowledge and understanding of the legislative framework surrounding occupational health and safety, the assignment of responsibilities in the workplace, the management of occupational health and safety in the workplace and the importance of establishing a positive safety culture.

PR: Admission to the Bachelor of Technology or the Bachelor of Maritime Studies program

4013 Structure and Functions of Technology-based Organizations focuses on the emergence of technology-based companies with an emphasis on how we can implement methods to increase their organizational effectiveness. This course will concentrate on the integration of three basic frameworks that are integral to production and performance in the 21st century. It will introduce students to the concepts and processes materializing in a technological milieu. This course also deals with the study of technological economics, organizational progression, structural configurations and operations, and universal and contemporary approaches to organizational design. In addition it will examine the challenges of change that face highly dynamic industries: individual & organizational change, technological change, and national & global change. This course will also examine specialized topics in structure evolution for technology-based organizations with an emphasis on the need for adaptability, innovation & global communications.

PR: Admission to the Bachelor of Technology or the Bachelor of Maritime Studies program

4014 Technology and the Environment will help students critically examine technology and the environment and how the two are linked. Topics may include how technology is both the cause of and solution to many environmental problems, the greenhouse effect, renewable energy vs. fossil fuels, recycling vs. landfills, the efficiency paradox, geo-engineering, and other select current topics.

PR: Admission to the Bachelor of Technology program

4020 Economic Management for Technologists (formerly Technology 4020) provides an introduction to the economics of technological projects. Students will study the mathematics of money, cost composition, and project evaluation, including cost comparison. They will also learn to analyse projects for decision making, including risk assessment and replacement analysis. In addition, they will learn to use suitable criteria for project selection, and to conduct sensitivity analysis.

CR: Engineering 4102; the former Technology 4020

PR: Admission to the Bachelor of Technology or the Bachelor of Maritime Studies program

4030 Technology in the Human Context (formerly Technology 4030) examines technology in the historical context and technology in the modern era. Students will discuss human insights, innovation, the interactions between development and technology transfer, ethics and professionalism and how to develop a technology value system.

CR: the former Technology 4030

4040 Project Management for Technologists (formerly Technology 4040) will introduce the student to the interdisciplinary field of project management. The course covers the interpersonal skills necessary to successfully lead or work effectively within a project team as well as providing an overview of certain planning and scheduling tools and techniques necessary for the planning and monitoring of projects.

CR: the former Technology 4040

4050 Introduction to Quality Management (formerly Technology 4050) will provide students with an understanding of the philosophy and concepts involved in the total quality approach to quality management. The course covers the various tools and techniques used in quality management as well as providing an overview of the role of management.

CR: the former Technology 4050

4060 Advanced Technical Communications will enhance the technical communication skills of students. The course content examines technical writing fundamentals; information gathering, analysis, and documentation; proposal preparation; technical document applications; technical report preparation; graphics preparation; and technical presentations. The course will provide students with the knowledge and skills necessary to develop proposals, reports, and presentations for technical projects.

4070 Special Topics in Technology will provide the opportunity for students to maintain technical currency through a review of recent advances in technology and their application to particular technical areas.

PR: Admission to the Bachelor of Technology Program and MSTM 4060

4080 Environmental Management System (formerly MSTM 4003) will provide students with a knowledge and understanding of international standards for environmental management. The course will develop an understanding of the ISO 14000 standard, its requirements and the process for establishing an environment management system (EMS). The course will include a consideration of the documentation and other requirements for ISO 14000 registration.

CR: the former MSTM 4003

4090 Introduction to Technology will provide a broad survey of practices critical to operating a technology-based business. Topics covered may include an introduction to technology management, historical developments in the management of technology, the functions of technology management, and select current topics that are relevant to operating technology-based businesses.

PR: Admission to the Bachelor of Technology program

4100 Technical Project and Report I (formerly Maritime Studies 4000 and Technology 4000) requires the student to identify a research topic in a specialty area, write a concept paper and develop a proposal to be carried out in MSTM 4200. In addition, the course offers an opportunity to improve time management, critical thinking, project management, problem solving, and reading/writing skills as related to the research process.

CH: 1

CO: MSTM 4060 or second English course at the 1000 level

CR: the former Maritime Studies 4000; the former Technology 4000

PR: MSTM 4060 or second English course at the 1000 level

4200 Technical Project and Report II (formerly Maritime Studies 4000 and Technology 4000) provides a link between the other courses of the program and the technical component from the diploma program. Students will carry out an in-depth study of the topic identified in MSTM 4100. Students will fully document and present their findings through the writing of a formal technical report.

CH: 2

CR: the former Maritime Studies 4000; the former Technology 4000

PR: MSTM 4100

9 Maritime Studies/Technology Management (MSTM) Courses Available to Students not Enrolled in a Degree Program Offered by the Fisheries and Marine Institute

Students not in a degree program offered by the Marine Institute may register in courses from the following list if space is available.

- 4001 The Organization and Issues of Shipping
- 4010 Assessment and Implementation of Technology
- 4030 Technology in the Human Context
- 4040 Project Management for Technologists
- 4050 Introduction to Quality Management
- 4060 Advanced Technical Communications
- 4080 Environmental Management System

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GRENFELL CAMPUS

GRENFELL CAMPUS

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Personnel - Administrative Faculty and Staff

Office of the Vice-President

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Grenfell Campus Registrar

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 Award, 2003; Winner of the President's Award for Distinguished
 Teaching, 2005-2006
 Rouleau, P., B.Sc. *UQAM*, Ph.D. *Alberta*; Associate Professor,
 Environmental Science and Physics; Coordinator of Engineering
 One
 Sircorn, J.P., B.Sc. *Acadia*, M.Sc., Ph.D. *Dalhousie*; Visiting
 Assistant Professor, Environmental Science and Biology
 Sodhi, A., B.Math. *Waterloo*, M.Sc., Ph.D. *Queen's*; Associate
 Professor, Mathematics and Computer Science
 Sodhi, P., B.Sc., M.Sc. *Punjab University*, M.Sc. *TUNIS*, Ph.D.
Guelph; Visiting Assistant Professor, Biology
 Sveshnikov, D., M.Sc. *M.V. Lomonosov Moscow State University*,
Russia, Ph.D. *Christian-Albrechts-University of Kiel*, *Germany*;
 Assistant Professor, Environmental Science and Biology
 van Zyll de Jong, M.C., B.Sc. *Toronto*, M.Sc., Ph.D. *Hull*; Adjunct
 Professor, Environmental Science
 Vasilyev, Y., B.Sc., M.Sc. *Novosibirsk State*, Ph.D. *Notre Dame*;
 Associate Professor, Mathematics
 Warkentin, I.G., B.Sc., Ph.D. *Saskatchewan*; Professor,
 Environmental Science and Biology

Division of Social Science

www.Grenfell.mun.ca/admin/Pages/socialscience.aspx

Wright, S.L., B.A. (Hons.), M.Sc. *Simon Fraser*, Ph.D. *Dalhousie*;
 Associate Professor, Psychology; Head, Division of Social
 Science
 Addo, E., B.A.(Hons.)(Geography & Archaeology) *University of*
Ghana, M.A.(Geography) *University of Regina*, M.A.(Political
 Science) *University of Toronto*, Ph.D.(Regional Economic
 Development Planning) *University of Sheffield*,
 Cert.(Hons.)(International Development Studies) *University of*
Oslo, Dip.(Hons.)(Tourism & Computer Applications) *Toronto*
School of Business, *Ottawa*; Assistant Professor, Tourism
 Bodner, J.M., B.A. *Trent*, M.A., Ph.D. *Memorial*; Assistant
 Professor, Folklore and Social/Cultural Studies
 Buckle, J.L., B.Sc.(Hons.) *Acadia*, M.A., Ph.D. *York*; Assistant
 Professor, Psychology
 Cake, L.J., B.A. *Queen's*, M.Sc. *Memorial*, Ph.D. *Queen's*;
 Honorary Research Professor, Psychology
 Carroll, D.A., B.P.E. *Memorial*, M.A. *Alberta*; Associate Professor,
 Human Kinetics and Recreation and Environmental Studies
 Carter, A.V., B.A. (Hons.) *Ottawa*, M.A. *Carleton*, Ph.D. *Cornell*,
 Assistant Professor, Political Science and Environmental
 Studies; Environmental Policy Institute
 Corbin Dwyer, S., B.A.(Hons.), B.Ed. *Memorial*, M.Ed. *Dalhousie*,
 Ph.D. *Calgary*; Professor, Psychology; Chair of Psychology
 Program
 Croll, M.C., B.A. *Mount St. Vincent*, M.A. *Dalhousie*, M.Ed.
University of New Brunswick, Ph.D. *University of Stirling*;
 Associate Professor, Anthropology and Sociology, Social/
 Cultural Studies; Chair of Social/Cultural Studies Program
 Duffy, J., B.A., M.A. *Carleton*, Ph.D. *York*; Professor, Psychology
 Eddy, B., B.Sc. (Hons.) *Acadia*, M.Sc. *Ottawa*, Ph.D. *Carleton*;
 Adjunct Professor, Sustainable Resource Management
 El Dessouky, N.F., B.Sc. *Sadat Academy for Management*
Sciences, M.Sc. *Cairo*, Ph.D. *Université du Québec à Montréal*;
 Adjunct Professor, Environmental Studies, Environmental Policy
 Institute
 Emke, I., B.A. *Ohio State*, M.A. *Windsor*, Ph.D. *Carleton*;
 Associate Professor, Anthropology and Sociology
 Haghiri, M., B.Sc., M.Sc. *University of Tehran*, Ph.D. *University of*
Saskatchewan; Associate Professor, Economics
 Iankova, K., B.A. *University of Veliko Tarnovo*, M.A. *Sofia*
University, Ph.D. *Université du Québec à Montréal*; Adjunct

Professor, Tourism Program
 Kelly, E., B.A. *Whitman*, M.A., Ph.D. *Oregon State*; Post-Doctoral Fellow, Environmental Policy Institute
 Klassen, D.H., B.A. *Wilfred Laurier*, M.A. *Manitoba*, Ph.D. *Indiana*; Associate Professor, Folklore and Social/Cultural Studies
 Klinke, A., M.A. *University of Stuttgart*, Ph.D. *Technical University of Darmstadt*; Associate Professor, Political Science and Environmental Studies; Environmental Policy Institute
 Krachun, C., B.A.(Hons.) *Memorial*, M.A., Ph.D. *Carleton*; Visiting Assistant Professor, Psychology
 Lam, J., B.Sc. *British Columbia*, M.Sc. *McGill*, M.B.A., Ph.D. *Concordia*; Assistant Professor, Business
 Levesque, M., B.A. (Hons.), M.A. *Western Ontario*, Ph.D. *McMaster*, Assistant Professor, Political Science and Environmental Studies, Environmental Policy Institute
 Luther, J.E., B.Sc. (Hons.), M.Sc. *Memorial*; Professional Associate, Sustainable Resource Management
 Mintz, E.P., B.A. *British Columbia*, M.A. *York*; Honourary Research Professor, Environmental Studies
 Monteith, G.R., B.A. *Western Ontario*, M.B.A. *McMaster*, B.Ed. *Toronto*; Lecturer, Business
 Nicol, K.S., B.A., M.Sc. *British Columbia*; Associate Professor, Geography and Environmental Studies
 Novakowski, N., B.A. *Toronto*, M.A., Ph.D. *Ottawa*; Associate Professor, Geography and Environmental Studies
 Okech, R.N., B. Comm. *Marathwada University*, M.A. *Institute for Social Sciences and Research Vellore*, Ph.D. *University of KwaZulu-Natal*; Assistant Professor, Tourism; Chair of Tourism Studies Program
 Otto, R.D., B.Sc. *Acadia*, M.Sc.F. *University of New Brunswick*; Professional Associate, Sustainable Resource Management
 Pitcher, J.B., B.A., M.B.A. *Memorial*; Assistant Professor, Business; Winner of the Grenfell Campus Teaching Award, 2011
 Riehl, M.K., B.A., M.A. *Alberta*; Lecturer, Sociology, Social/Cultural Studies
 Robinson, A., B.A., M.Phil., M.A. *Memorial*, Ph.D. *McMaster*; Assistant Professor, Anthropology
 Ryan, J.L., B.Comm.(Hons.)(Co-op) *Memorial*, M.B.A. *Dalhousie*; Lecturer, Business; Chair of Business Administration; Chair of

Business Administration Program
 Sabau, G.L., B.A., Ph.D. *Academy of Economic Studies, Bucharest*; Associate Professor, Economics and Environmental Studies; Chair of Environmental Studies Program
 Savic, I., B.Comm. *Toronto*, M.A. *Columbia*; Assistant Professor, Political Science and Environmental Studies
 Scott, R.J., B.Sc.(Hons.) *Western Ontario*, M.Sc. *Guelph*, Ph.D. *Clark University*; Assistant Professor, Sustainable Resource Management; Chair of Sustainable Resource Management Program; Cross appointment with Environmental Science Program
 Stewart, P.C., B.A.(Hons.) *Memorial*, Ph.D. *McMaster*; Assistant Professor, Psychology
 Walsh, J.S., B.A.(Hons.) *Memorial*, LL.B. *New Brunswick*, M.B.A. *Memorial*; Assistant Professor, Business
 Warren, K.L., B.A. (Hons.) M.Sc., Ph.D. *Memorial*; Assistant Professor, Psychology
 Wood, G.A., B.P.E., B.Ed. *Memorial*, M.A., Ph.D. *Alberta*; Adjunct Professor, Tourism Program
 Wu, J.H., B.Sc., M.Sc. *Nanjing University*, Graduate Certificate in GIS *University of Southern California*, Ph.D. *McGill*; Assistant Professor, Sustainable Resource Management

Cross Appointments

Baehre, R., B.A., M.A., M.Phil. *Waterloo*, Ph.D. *York*; Associate Professor, Historical Studies; Cross appointment with Social Cultural Studies Program
 Bowers, W.W., B.Sc. *Memorial*, Ph.D. *Simon Fraser*; Professor; Environmental Science and Biology; Interim Director of Environmental Policy Institute; Cross appointment with Sustainable Resource Management
 Klein, R.A., B.S. *Arizona State*, M.S.W. *University of Maryland*, M.A., Ph.D. *Syracuse*; Graduate Officer; Cross Appointment with Tourism Studies
 Newton, M.C., Cert. of Education *King Alfred's College*, B.A., M.A., Ph.D. *McMaster*; Professor, Religious Studies; Cross appointment with Environmental Studies; Winner of the Sir Wilfred Grenfell College Teaching Award, 2008

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 General Information

Grenfell, a campus of Memorial University of Newfoundland, was established in September 1975. In 1979 it was named Sir Wilfred Grenfell College honouring the memory of the medical missionary who pioneered medicine in northern Newfoundland and along the coast of Labrador until his death in 1940. In 2010, it was renamed Grenfell Campus, Memorial University of Newfoundland.

Four year degree programs in arts, science, business administration, fine arts, nursing and resource management may be completed at the Grenfell Campus. The Bachelor of Arts degree is available in English, environmental studies, historical studies, humanities, psychology, social/cultural studies and tourism studies and the Bachelor of Arts (Honours) may be obtained in psychology. The Bachelor of Science and Bachelor of Science (Honours) are offered in environmental science, general science, and psychology, and the University's four year Bachelor of Nursing degree is offered in conjunction with the Western Regional School of Nursing in Corner Brook. Bachelor of Fine Arts degrees are conferred in visual arts and theatre. These programs are different from programs offered on the St. John's campus and most are available only at the Grenfell Campus.

Students at Grenfell Campus may also complete the first year requirements of several programs offered at the St. John's Campus. It is recommended that students meet with an academic adviser concerning course selection for specific programs.

Students have the option of completing distance and web-based credit courses offered by Distance Education, Learning and Teaching Support (DELTS) at Memorial University of Newfoundland. As well, the Division of Community Education and College Relations also offers a wide variety of non-credit courses to the students at the Campus and to the general public.

The Campus affords a spectacular view of the city of Corner Brook and the scenic Bay of Islands. The Arts and Science Building houses administrative and academic units, a bookstore, an athletics and recreation wing, a student residence and the Student Centre. The Library and Computing Building includes the Ferriss Hodgett Library, a computer lab and a high tech lecture theatre. The Fine Arts Building contains facilities for students of theatre and visual arts, the Campus community and the general public. It features a 225 seat "black box" theatre, dressing rooms, scenery, costume and properties workshops, as well as an actors' green room and a rehearsal hall. The Fine Arts Building also includes an art gallery, art storage vault, studios for drawing, painting, sculpture, multi-media and photography, darkrooms, and workshops for lithography, intaglio and serigraphy. The Forest Centre is a shared facility housing classroom, laboratory and research facilities for the Campus as well as the Newfoundland Division of the Canadian Forestry Service. All campus buildings are connected, mostly by skywalks.

Additional information regarding the Grenfell Campus is available at www.Grenfell.mun.ca/Pages/default.aspx.

2.1 Student Services

Student Services promotes the intellectual, social, spiritual, and physical development of all students. By advocating for students, providing the highest quality service and involving students in leadership roles, Student Services strives to help students realize their full potential - to become successful students, caring individuals, and productive citizens.

The department offers many programs and services which promote student development, such as student employment, leadership development, scholarships, orientation, recreation and wellness, academic support, and student housing.

Student Services is located in the Student Services Centre, AS234 at Grenfell Campus. Further information may be obtained by telephone to (709) 637-6232, or by e-mail at saffairs@Grenfell.mun.ca, or through the website at www.Grenfell.mun.ca/student.

2.2 The Learning Centre

One of the most utilized components of Student Services is the Learning Centre, the Grenfell Campus one-stop shop for academic support. Staff in the Centre assist students with writing, math, and study skills. Peer tutoring and supplemental instruction are available to students free of charge. Career services provides students with career development, experiential workplace learning, and employee networking for students and alumni.

The co-ordinator of the Learning Centre is also responsible for helping students who require accommodations because of a disability.

The Learning Centre is located in AS 235. Further information may be obtained by contacting the Centre by telephone to (709) 637-6268 or through the website at www.Grenfell.mun.ca/centre.

2.3 Student Housing

Student Housing currently offers accommodation for 400 students in a suite-style residence and chalet apartments. The suite-style residence is mainly for first-year students while the chalet-style apartments are mainly for students beyond first-year and families. In each apartment, four students share a living room, kitchen and one-and-a-half baths and have his/her own room. Individual phones and Internet ports are provided.

Student Housing facilitates a variety of programs and activities to meet the diverse interests of residents and encourages students to get involved.

The off-campus office assists students seeking accommodation in the Corner Brook area. An online database of boarding houses/apartments is available. The office also offers services and programs throughout the year for students living off campus.

Further information may be obtained by telephone to (709) 637-6266, or by e-mail at resinfo@Grenfell.mun.ca, or through the website at www.Grenfell.mun.ca/res/Pages/default.aspx, or at the Housing Office at Residence Room 221.

2.4 Recreation and Wellness

Grenfell Campus offers a distinctive program of recreation and wellness activities that contributes to the well being and personal and social development of students. The Campus has a 25 metre pool, a gymnasium and an outdoor multi-use court. Through a partnership with the Pepsi Centre, students are able to access a fitness facility, ice rinks and a walking track. Students also have the opportunity to use various recreational facilities in the region and participate in a variety of recreation programs such as intramural sports, step aerobics, and "learn to" programs (downhill skiing, kayaking and swimming).

Through a partnership with the Western Regional School of Nursing, a Wellness Centre operates at Grenfell Campus on a part-time basis during the academic year. The role of the Wellness Centre is to enhance education and awareness of various lifestyles, health and well-being issues relevant to students at the University.

The role of the centre is to enhance education and awareness of various lifestyle, health and well-being issues relevant to students at university.

2.5 Grenfell Campus Student Union

The Grenfell Campus Student Union (GCSU), Local 36, CFS, represents students' interests to the Campus administration and on a provincial and national level through the Canadian Federation of Students. The GCSU also promotes artistic, literary, educational, social, recreational, charitable, and sporting activities for the enhancement of the students of the Campus.

All full and part-time students pay GCSU fees and upon registration become members of the Grenfell Campus Student Union.

2.6 Counselling Services

The Campus has two professional counsellors available to assist students with their concerns. The counsellors provide a free and confidential service that includes career, academic, and personal counselling. The counsellors meet with their clients individually and assist them with a wide range of concerns. When necessary, the counsellors can arrange referrals to other professionals in the community.

2.7 Library

Small branch, big collection! The Ferriss Hodgett Library is one of five libraries that make up the Memorial University of Newfoundland Libraries system. It provides local personalized service and a core collection of over 120,000 books, 200 print journal subscriptions, and other materials, combined with access to a much larger collection of print and online resources. Over 1,000,000 books and articles can be requested from the St. John's campus, and if it's not available through Memorial University of Newfoundland, can be obtained from other libraries worldwide.

Everyone is always welcome in the Library, but for those who like to research after hours or from the comfort of dorms or homes, remote access to the Library catalogue, over 20,000 e-books, 200 article databases, and 26,000 e-journals is available 24/7, making library research easier than ever. The Library also provides equipment loans to support emerging research needs such as eBook readers, digital voice recorders, portable DVD players, and more.

The Library has an Information Commons, with computers providing access to the Library's online resources (like e-journals and e-books), Internet, email, MS Office, and other software. Students can bring their laptops into the Library and access all online services using the campus wireless network. There are a variety of study spaces, from group study rooms to individual study carrels and laptop chairs.

A full range of public services are offered including research assistance, tours, library instruction classes, and support for copyright enquiries.

2.8 Statement of Academic Purpose

Grenfell Campus, as part of Memorial University of Newfoundland, is a four year undergraduate degree granting institution offering a liberal education in arts and science and a professional education in nursing, theatre and visual arts. In addition, the Campus continues to accommodate students who wish to complete their degrees at Memorial University of Newfoundland in St. John's or at universities

elsewhere.

At Grenfell Campus a liberal education means a critical and open-minded pursuit of knowledge providing students with the intellectual tools to enable them to respond to a rapidly changing world. A liberal education marks the start of preparation for a career and it may lead to graduate work in a number of fields. In a broader sense it is intended to build a foundation for social, cultural and recreational interests that will help students move toward a meaningful personal and professional life. Academically, the aim of Grenfell Campus is to enable students to be open to new ways of thinking and to gain a lasting intellectual self-confidence so that they may have both the ability and the desire to be life-long learners.

At Grenfell Campus the goal of high quality education is reflected in the following commitments:

1. to teach students in a variety of challenging contexts and in general provide them with a personalized learning environment;
2. to maintain high academic standards;
3. to foster excellence in teaching, to encourage scholarship, research, performance and artistic endeavour, and to engage students, where appropriate, in these activities.

3 Grenfell Campus Core Program Requirements

Students completing the Bachelor of Arts, Bachelor of Business Administration, Bachelor of Resource Management, and Bachelor of Science degree programs at Grenfell Campus must complete Core program requirements as follows:

1. Literacy Requirement

Thirty credit hours in Writing courses which must include 6 credit hours in first-year English. Up to 6 credit hours in languages other than English may be used to satisfy the literacy requirement. Courses in this group are identified with the designation W and are listed in the table, **Designated Writing Courses (W)**.

Courses in this category must either be completed through on-campus offerings at Grenfell Campus or be demonstrated to be equivalent to Grenfell writing courses.

2. Quantitative Reasoning and Analysis Requirement

Six credit hours in Quantitative Reasoning and Analysis courses. Courses in this group are identified with the designation QRA and are listed in the table, **Designated Quantitative Reasoning and Analysis Courses (QRA)**.

3. Breadth of Knowledge Requirement

Six credit hours from each of the three groups identified below for a total of 18 credit hours. The courses chosen can be any courses within the disciplines identified. However, students are not permitted to use these courses to meet the Quantitative Reasoning and Analysis requirement nor the first-year English requirements.

- Group A: Art History, Classics, English, History, Humanities, Languages, Philosophy, Religious Studies, Theatre, Visual Arts
- Group B: Anthropology, Business, Economics, Education, Environmental Studies, Folklore, Gender Studies, Geography, Human Kinetics and Recreation, Political Science, Psychology, Sociology, Sustainable Resource Management, Tourism Studies,
- Group C: Biology, Biochemistry, Chemistry, Computer Science, Earth Sciences, Environmental Science, Mathematics, Physics, Science

Archived Previews Calendar available at:
 Current University Calendar available at:
<https://www.mun.ca/university-calendar>

3.1 Designated Writing Courses (W)

Anthropology: 2240, 2300, 2500, 3080, 3083, 3140, 3520, 3525, 4072, 4440
Biology: 2040, 2041, 2122, 2600
Business: 1210, 2000, 2010, 2210, 2808, 3310, 5220, 6500, 6800, 7000, 7010, 7025, 7050, and 7600
Chemistry: 2210
Classics: 1100, 1120, 1121, 1200, 2010, 2015, 2020, 2035, 2040, 2055, 2060, 2701, 2800, 2801, 3010, 3020, 3110, 3111, 3130
Earth Science: 2914, 2915
English: All English courses listed with the Grenfell Campus English Program and English 2010
Environmental Science: 2370, 2371, 3131, 3210, 3211, 3260, 4000, 4133, 4950, 4951, 4959
Environmental Studies: 4000, 4950
Folklore: 1000, 1050, 2000, 2300, 2401, 2500, 2600, 3130, 3200, 3300, 4072, 4440
Forestry: 3000, 3200
French: 2100, 2101, 2601, 2602, 3100, 3101
Gender Studies: 2001
Geography: 2001, 2302
History: All History courses listed with the Grenfell Campus Historical Studies Program
Human Kinetics and Recreation (HKR): 2300, 3330, 3340, 3350, 3410
Humanities: 1001, 1002, 2002, 2001, 2002, 2010, 3001, 3002, 3010, 3020, 3021, 4001, 4010, 4950
Mathematics: 2130
Philosophy: 1001, 1200, 1600, 2200, 2220, 2230, 2551, 2561, 2581, 2701, 2702, 2800-2810, 3120, 3150, 3160, 3400, 3500, 3600, 3610, 3620, 3701, 3730, 3850, 3860, 3940, 4200-4790, 4200, 4250, 4700
Political Science: 1010, 1020, 2000, 2200, 2600, 2711, 3550, 3731
Psychology: 4910, 4925, 4950, 4951, 4959
Religious Studies: 1000, 1010, 1020, 2011, 2013, 2050, 2051, 2610, 3010, 3020, 3030, 3040, 3200, 3401, 3500, 3820, 3831, 3840, 3880
Science: 3000, 3001, 4000, 4950, 4951, 4959
Social/Cultural Studies: 4000, 4100, 4950
Sociology: 2240, 2610, 3140, 3150, 3290, 3395, 4072
Sustainable Resource Management: 2000, 2001, 3000, 3001, 3002, 4001, 4002, 4003, 4010, 4950
Theatre: 1000, 1001
Tourism Studies: 1100, 2000, 3230, 3240, 3800, 4010, 4950
Visual Arts: 2700, 2701, 3620, 3700, 3701, 3702-3721, 3820, 4060, 4700-4729, 4730, 4731, 4740, 4741
University: 1010

Note: Courses will be designated Writing courses by the Academic Studies Committee. A Writing course is a course in which a minimum of 30 percent of the course grade involves a specific component consisting of written work on which students will receive feedback. For the purpose of this regulation, the final examination will not be counted as part of the evaluated Writing component

3.2 Designated Quantitative Reasoning and Analysis Courses (QRA)

Arts Philosophy 2210, 3110
Fine Arts None
Science Biochemistry 1430 Biology 2250, 2600 Chemistry (All courses with the exception of Chemistry 1900) Computer Science (All courses) Earth Science 2150 Environmental Science (All courses with the exception of: 1000, 2360, 2370, 2371, 3072 and 4000) Mathematics (All courses) Statistics (All courses) Physics (All courses)
Social Science Business 1101, 2101, 2400, 3101, 3401, 4500 and 5500 Economics 2010, 2020, 3150 Environmental Studies 2000 Geography 3222 Psychology 2925, 2950, 3950 Sociology 3040 Sustainable Resource Management 4000

Note: Courses will be designated Quantitative Reasoning and Analysis by the Academic Studies Committee. The Quantitative Reasoning and Analysis (QRA) Requirement is intended to help students develop a degree of appreciation of numerical, statistical and/or symbolic modes of representation, as well as an appreciation of the analysis, interpretation and broader quantitative application of such representations.

4 The Bachelor of Arts and Bachelor of Science Degree Programs

Grenfell Campus reserves the right to limit the number of spaces available in each Major/Minor program.

A student may not use the same course to satisfy the requirements for both a Major and a Minor.

Students may devise a Major/Minor of their own choosing in close consultation with a faculty advisor and with approval of appropriate head(s). Such "open" programs must be approved by the Academic Studies Committee.

Course prerequisites may be waived by division heads or program chairs of the disciplines or programs in question. In special circumstances the Academic Studies Committee may waive the requirements that apply to these degree programs.

Courses listed for a Major or for a Minor may require prerequisite courses not listed in the program requirements. Please consult all course descriptions for prerequisites.

4.1 General Regulations

For the Bachelor of Arts and Bachelor of Science degrees at Grenfell Campus students must complete a minimum of 120 credit hours made up of the following components:

1. Core Program Requirements (see above)
2. An approved concentration of courses known as a Major
3. An approved concentration of courses known as a Minor. A Minor is not required for interdisciplinary programs or for Bachelor of Science in Psychology. However, students in such programs may choose to complete a Minor
4. Elective courses

4.2 Major

1. The requirements for a Major can be fulfilled in one of two ways:
 - a. minimum of 36 credit hours in a single discipline or
 - b. minimum of 72 credit hours in an interdisciplinary area

Students choosing a single discipline major (with the exception of Bachelor of Science in Psychology) must complete one of the following: (i) minor or (ii) with the permission of the appropriate program chair(s), a second major.

Actual credit hours required for specific disciplines will vary.
2. All Majors require a minimum of 12 credit hours in 3000-level courses, 6 credit hours in 4000-level courses and 3 credit hours in a 4000-level senior project.
3. A candidate must follow the specific requirements for each major program as set forth in the Grenfell Campus section of the University Calendar
4. Single discipline majors are available in following areas:
 Division of Arts: English, Historical Studies, Humanities
 Division of Social Science: Psychology (B.A. and B.Sc.); Tourism Studies
 Interdisciplinary majors are available in following areas:
 Division of Social Science: Environmental Studies, Social/Cultural Studies, Sustainable Resource Management
 Division of Science: Environmental Science, General Science

4.3 Minor

A minimum of 24 credit hours must be completed in a single discipline or interdisciplinary area other than that of the Major. Minors are available in the following areas:

Division of Arts: Classics, English, French, Historical Studies, Humanities, Philosophy, Religious Studies

Division of Social Science: Business, Canadian Studies, Economics, Environmental Studies, Folklore, Geography, Psychology, Social/Cultural Studies, Sociology; Tourism Studies

Division of Fine Arts: Art History

Division of Science: Environmental Science, Mathematics, Science

A candidate must follow the requirements for the Minor program as set forth in the Grenfell Campus section of the University Calendar.

As an alternative to a Minor, a second Major may be completed and students must meet all general and departmental or program regulations for both Majors.

Any student enrolled in the Grenfell Campus B.A. Degree with a Major in English who has completed the B.F.A. (Theatre) Degree at Grenfell Campus will be considered to have fulfilled the requirements for a Minor in Theatre.

4.4 Electives

Courses to make up the total of 120 credit hours, other than those required for the core program and Major/Minor requirements, may be chosen according to the following guidelines:

1. Any courses in arts, social science, science and fine arts
2. Up to 15 credit hours in other subject areas.

4.5 Advice to Students on Planning a Program

When planning the sequence of courses for a Major or Minor Program, students should seek advice from the Office of the Registrar or the appropriate Division Office.

5 Regulations for the Honours Degrees of Bachelor of Arts and Bachelor of Science at Grenfell Campus

Programs are offered leading to the Honours Degrees of Bachelor of Arts and Bachelor of Science. An Honours degree requires, over and above the requirement of the General degree, a concentration at an advanced level in an approved field, consisting of a subject or subjects of specialization and/or related subjects, and a high quality of work throughout the program. An Honours degree is of distinct advantage to candidates who plan advanced work or careers in their chosen fields and also to those who have a clear commitment to some special field of study. An Honours degree with first or second class standing is, in many cases, a prerequisite for admission to a graduate program.

5.1 Admission and Registration

1. Admission to the Honours degree is competitive and limited, depending upon available resources. Candidates should consult the criteria established for the program in question. To be considered for admission to an Honours program a candidate shall complete an "Application For Admission to the Honours Program" form. The application must be approved by the Program Chair of the Major before the candidates can be admitted to the program.

A candidate who wishes to enter an honours program is strongly advised to consult the Program Chair at the earliest possible date, as it may not be possible to complete the requirements for the degree in the normal time if the decision to embark on the program is delayed beyond the end of the second year.

2. Students who have been awarded the General Degree of Bachelor of Arts or Bachelor of Science at Grenfell Campus may convert it to an Honours Degree of Bachelor of Arts or Bachelor of Science by following procedure outlined in 1. above.
3. Before registering for any semester or any session, the candidate is strongly advised to consult with the Program Chair on the student's choice of courses. Failure to comply with this requirement may result in denial of access to certain courses.

5.2 Majors

The Honours Degree of Bachelor of Arts is available in Psychology and the Honours Degree of Bachelor of Science is available in Environmental Science, General Science, and Psychology.

5.3 Course Requirements

Candidates for the Honours Degree of Bachelor of Arts or Bachelor of Science shall complete a program of studies which shall consist of not fewer than 120 credit hours subject to the following regulations:

1. All candidates are required to complete the Core Program requirements governing the Bachelor of Arts and Bachelor of Science degrees at Grenfell Campus.
2. All candidates must also submit an Honours thesis or dissertation on an approved topic which may be followed by an oral examination thereon. Two copies of the Honours thesis/dissertation must be submitted to the University Library upon completion. All Honours theses/dissertations in the University Library shall be available for unrestricted consultation by students and faculty except under very exceptional circumstances which must be approved by the Academic Studies Committee. Copyright remains with the author. A signed release form must accompany a thesis or dissertation when it is submitted to the University Library.
3. Further courses shall be chosen:
 - a. minimum 60 credit hours in the major and, where applicable, not fewer than 24 credit hours in the minor; and
 - b. courses to make up a minimum of 120 credit hours, other than those required for the Core Program, major and minor, shall be chosen as follows:
 - i. any courses in Arts, Science, Social Science and Fine Arts
 - ii. up to 15 credit hours in other subject areas.

5.4 Program Regulations

Candidates for Honours degrees must comply with such additional requirements of the appropriate Program(s) as approved by the Senate and printed in the University Calendar.

5.5 Academic Standing

In order to graduate with an Honours degree, a candidate shall obtain:

1. A grade of 'B' 70% or better, or an average of 75% or higher in the courses that comprise the minimum number of credit hours in the Honours subject(s) prescribed by the program concerned as outlined under the regulations governing specific Honours degree programs, excluding 1000-level courses. Students who wish to fulfil this requirement using repeated or substituted courses must obtain approval of the Program Chair and the Academic Studies Committee. The Honours thesis or dissertation may not be repeated or substituted. A grade of 70% or better must be obtained in the Honours dissertation; and
2. An average of at least 2.75 points per credit hour in the courses required for the degree. (see **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**, for explanation of the point system.)

5.6 Classification of Degrees

1. If a candidate's general average is 3.5 points or better per credit hour in required courses and his/her average is 3.5 per credit hour in the courses in the Honours subject (excluding 1000-level courses), the candidate shall be awarded an Honours degree with First Class standing.
2. If a candidate fulfils the conditions of 6.6 but not of clause 6.7, 1., the candidate shall be awarded an Honours degree with Second Class standing.
3. No classification will be given to the degree awarded a candidate who has completed (i) fewer than one half of the courses required for the degree at this University, or (ii) who has completed fewer than one half of the courses required for the degree at this University since 1959. All candidates for such degrees shall, however, fulfil the condition of paragraph 6 on the courses taken at this University since September 1959 in order to qualify for the degree.
4. A declared candidate for an Honours degree who fails to attain the academic standing specified in clause 6, but fulfils the academic requirements for a General degree shall be awarded a General degree, the classification of which shall be determined in accordance with **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.

In these regulations, all references to the Program Chair are to be read as "Program Chair or delegate".

6 Division of Arts

Bachelor of Arts General degrees only.

Majors are available in English, Historical Studies, Humanities.

Minors are available in Classics, English, Historical Studies, Humanities, Philosophy, Religious Studies.

An Intensive English Bridge Program is also available.

6.1 Major in English Language and Literature

Program Chair: Dr. M. Thackray

The Major consists of 42 credit hours including an English Core and one of four possible concentrations.

6.1.1 English Core

1. English 1000 and 1001 or equivalent
2. English 2005, 2006, 2007, 3205 or 3206, 3395, 4105

6.1.2 Concentrations

Students must complete 18 credit hours in one of the following concentrations. Within each concentration, there must be a minimum of 6 credit hours at the 3000 level and 6 credit hours at the 4000 level.

1. Canadian Literature Concentration

English 2146, 4950 and 12 credit hours in Canadian Literature from the following selection: English 2155, 2156, 2905, 3145, 3147, 3148, 3149, 4307, 4825-35.

2. Dramatic Literature Concentration

English 2350, 2351, 3275, 4950 and 6 credit hours in Dramatic Literature from the following selection: English 3021, 3171, 3181, 3205 or 3206 (whichever course has not been used to fulfil the requirements of the English Core), 4302, 4305, 4307, 4308, 4316, 4317, 4836-44.

3. Modern Literature Concentration

English 3215, 3216, 4950 and 9 credit hours in Modern Literature from the following selection: English 2215, 2242, 2243, 2705, 2805, 2870, 2905, 3810, 3275, 3905, 4245, 4246, 4302, 4305, 4308, 4905.

4. Combined Concentration

A total of 18 credit hours from English Concentration Courses which must include:

- a. At least 6 credit hours from one of three concentrations (Canadian, Dramatic, Modern) as specified below and an English 4950 project within the area chosen:

Canadian Literature: 2146 and at least 3 additional credit hours in this concentration or
 Dramatic Literature: 2350 or 2351 and at least 3 additional credit hours in this concentration or
 Modern Literature: 3215 or 3216 and at least 3 additional credit hours in this concentration.

- b. At least 3 credit hours from each of the other two concentrations.

6.2 Major in Historical Studies

Program Chair: Dr. O.U. Janzen

The Major consists of a minimum of 42 credit hours in History courses and 15 additional credit hours drawn from a prescribed list of courses from other disciplines.

The student must complete:

1. History 1100, 1101, 3840 and 4950.

2. Twelve credit hours from courses in each of the two following categories:
 - a. **Early Western History**
History/Classics 2035, 2040, 3090
History 2100, 2200, 2300, 2320, 2330, 3050, 3110, 3135, 3320, 3330, 3445, 3760
History/Anthropology 3520
History/Art History 2700, 3700, 3701
 - b. **Later Western History**
History 2120, 2210, 2310, 2500, 2510, 3030, 3060, 3120, 3250, 3440, 3460, 3490, 3675, 3770
History/Art History 2701
History/Anthropology 3525
History/Economics 3630
3. Six credit hours in 4000-level History courses (in addition to History 4950). Prerequisite: At least six credit hours at the 3000 level, or permission of the Chair.
4. Fifteen credit hours chosen from:
 - Anthropology 1031
 - Economics 2010
 - Economics 2020
 - English 2005
 - English 2006
 - English 2007
 - Folklore 1000
 - Folklore 1050
 - Folklore 2401
 - French 1501
 - French 1502
 - French 2100
 - French 2101
 - French 2601
 - French 2602
 - Geography 1000
 - Geography 1001
 - Geography 2001
 - Philosophy 1600
 - Philosophy 2701
 - Philosophy 2702
 - Philosophy 3400
 - Political Science 1000
 - Political Science 2000
 - Political Science 2500
 - Religious Studies 2013
 - Religious Studies 2050
 - Religious Studies 2051
 - Sociology 2000
 - Sociology 3040
 - Sociology 3150

Note: These are courses that are thematically or methodologically relevant to the study of History (students may be allowed to take others with permission of the Program Chair). Applicable courses used to satisfy the Minor requirements may also be counted as Historical Studies credits. No more than 6 credit hours from any one discipline will be counted toward Historical Studies Major.

6.3 Major in Humanities

Program Chair: Dr. M. Janes

The Major consists of 45 credit hours as follows:

- a. 39 credit hours (Humanities 1001, 1002, 2001, 2002, 2010, 3001, 3002, 3010, 4001, 4010, 4950; one of 3100-3109; one of 4020-4029).
- b. Language requirement: 6 credit hours in a single language other than English.

6.4 Minor Programs - Division of Arts

All minor programs require 24 credit hours

1. Classics Minor:

- a. Classics 1100 and 1200
- b. Classics 2035 and 2040
- c. Three credit hours at 3000 level
- d. Nine additional credit hours in Classics

2. English Minor:

- a. Six credit hours at 1000 level in English
- b. Six credit hours chosen from English 2005, 2006 and 2007
- c. Three credit hours chosen from English 3205 or 3206
- d. Nine additional credit hours in English electives; 3 credit hours must be chosen from courses having an initial digit "3" or "4"

3. French Minor:

No more than 6 credit hours at the 1000 level and no more than 6 transfer credits may be used to fulfill the minimum requirement of the minor in French.

- a. French 2100 and 2101 or French 2159 and 2160

- b. French 3100 or French 3101
 - c. 15 additional credit hours in French
4. **Historical Studies Minor:**
- a. History 1100 and 1101
 - b. History 3840
 - c. Three credit hours at 3000 level in History
 - d. Three credit hours at 4000 level in History
 - e. Additional 9 credit hours in History
5. **Humanities Minor:**
- a. Humanities 1001 and 1002
 - b. Six credit hours from Humanities 2001, 2002 or 2010
 - c. Twelve credit hours from Humanities 3001, 3002, 3010, 3020, 3021, 4001, 4010; one of 3100-3109; one of 4020-4029
6. **Philosophy Minor:**
- a. Philosophy 2701 and 2702
 - b. Three credit hours from following list: Philosophy 3730, 3740, 3800, 3840, 3850, 3860
 - c. 15 additional credit hours in Philosophy
7. **Religious Studies Minor:**
- 24 credit hours in Religious Studies with no more than 6 credit hours at 1000 level and at least 9 credit hours at 3000 level or above.

6.5 Intensive English Bridge Program at Grenfell (IEBP-G)

The Intensive English Bridge Program is intended for applicants to Memorial University of Newfoundland who have been provisionally admitted as undergraduate students, and who are students of advanced proficiency who meet the criteria outlined in **Admission** below. The program requires ten to fifteen hours of classroom language instruction in reading, writing, grammar, and listening. The emphasis is on English for academic purposes. Students in this program may register for an undergraduate credit course concurrently, in consultation with the Coordinator of English as a Second Language programs.

Final admission for provisionally admitted students will be subject to successful completion of the Intensive English Program with an acceptable score on the Canadian Academic English Language (CAEL) Assessment. The CAEL Assessment is administered as part of the program at the end of each semester. The number of semesters of Intensive English study required to achieve a student's desired level of proficiency will vary according to his or her initial proficiency level and individual progress rate.

6.5.1 Admission

Candidates for the Intensive English Bridge Program must have:

1. been provisionally accepted to undergraduate studies at Memorial University of Newfoundland.;
2. achieved an average of Band 40 in the CAEL with a Writing sub-score of at least 40, a paper-based TOEFL score of 483, a computer-based TOEFL score of 160, an iBT TOEFL score of 56, with a minimum writing score of 16, or an IELTS score of 5.5 with no sub-score less than 5 and a minimum writing score of 5.5; and
3. achieved a grade of "C" or better with a satisfactory attendance level (90%) in both ENGS 011F and ENGS 012F if enrolled in the Intensive English program at the St. John's campus within the previous two semesters.

6.5.2 Program Requirements

1. Students admitted to the Intensive English Bridge Program must register for the course English as a Second Language 011F.
2. Students in this program may normally register for no more than one credit course, chosen in consultation with the Coordinator of the English as a Second Language Program.
3. Students may register in the Intensive English Bridge Program for a maximum of two semesters.
4. Full participation is an essential part of the language learning process in this program. For this reason regular attendance is required. No more than 10% of instructional days may be missed without documented reasons that are acceptable to the Coordinator of English as a Second Language programs. Students who fail to meet the minimum attendance requirements may not be permitted to re-enroll in the IEBP-G in the following semester.

7 Division of Social Science

Bachelor of Arts (General) degrees are available with Majors in Environmental Studies, Psychology, Social/Cultural Studies, and Tourism Studies. Bachelor of Arts (Honours) degree is available in Psychology. A Bachelor of Business Administration and a Bachelor of Resource Management is also available.

Bachelor of Science (General and Honours) degrees are available in Psychology.

Minors are available in Business, Canadian Studies, Environmental Studies, Folklore, Geography, Psychology, Social/Cultural Studies, Sociology, and Tourism.

An articulation agreement has been established with the College of the North Atlantic for graduates of the two-year Adventure Tourism Diploma Program who wish to obtain a Bachelor of Arts degree (Major in Environmental Studies).

7.1 Major in Environmental Studies

Program Chair: Dr. G. Sabau

The Major consists of an Environmental Studies Core which provides a broad appreciation of interrelationships inherent in any study of the environment and one of two possible concentrations which provides the depth and focus for the degree program.

7.1.1 Environmental Studies Core

Students must complete the following courses:

Economics 2010

Environmental Studies 1000
 Environmental Studies 2000 (strongly recommended for the Biology Stream of the Environmental Science Program)
 Environmental Studies 3000
 Environmental Studies 3001
 Environmental Studies 4010
 Environmental Studies 4950
 Geography 1000
 Geography 3222
 Philosophy 2561

7.1.2 Environmental Studies Concentrations

Students must complete 42 credit hours in one of the following concentrations:

1. Environmental Perspectives Concentration

Forty-two credit hours at least 15 of which must be at the 3000 or 4000 level:

Anthropology 3080
 Anthropology 3083
 Biology 1001 and 1002
 Biology 2041
 Biology 2600
 Chemistry 1001
 Chemistry 1200
 Earth Sciences 1000
 Earth Sciences 1002
 Environmental Science 2261
 Environmental Science 2360
 Environmental Science 2370
 Environmental Science 2371
 Environmental Studies 4000
 Environmental Studies 4020-4039
 Folklore 2401
 Folklore 2600
 Forestry 1010 and 1011
 Geography 1001
 Geography 2001
 Geography 2102
 Geography 2302
 Geography 2425
 Geography 4405
 Political Science 3550
 Political Science 3731
 Religious Studies 3880
 Sociology 2120

2. Outdoor Environmental Pursuits Concentration

a. Environmental Studies 2210, Environmental Studies 2220, Environmental Studies 3210, Human Kinetics and Recreation (HKR) 3555, and Human Kinetics and Recreation (HKR) 4555

b. Twenty-seven credit hours from the following of which at least 9 credit hours must be at the 3000 or 4000 level:

Anthropology 3083
 Biology 1001 and 1002
 Biology 2041
 Biology 2600
 Chemistry 1001
 Chemistry 1200
 Earth Sciences 1000
 Earth Sciences 1002
 Environmental Science 2261
 Environmental Science 2360
 Environmental Science 2370
 Environmental Science 2371
 Environmental Studies 4000
 Environmental Studies 4020-4039
 Folklore 2600
 Forestry 1010 and 1011
 Geography 1001
 Geography 2102
 Geography 2425
 Human Kinetics and Recreation (HKR) 3565
 Human Kinetics and Recreation 4575
 Political Science 3731
 Religious Studies 3880

7.2 Major in Psychology - B.A. and B.Sc.

Students completing this program cannot receive credit for Psychology 2920.

Program Chair: Dr. J. Buckle

The Major in Psychology consists of a minimum of 45 credit hours in Psychology as follows:

1. Psychology 1000, 1001, 2925, 2950, 3950, 4910, 4925, and one of 4950 or 4951
2. At least 12 credit hours from: Psychology 2025, 2125, 2225, 2425, 2625, 2825

- At least 9 credit hours chosen from the following Contemporary Issues courses: Psychology 3025,3040 3125, 3126, 3225, 3226, 3325, 3425, 3525, 3625, 3626, 3627, 3628, 3725, 3825

Candidates for the Bachelor of Science degree with a Major in Psychology shall also complete an additional 36 credit hours as follows:

- Six credit hours in Mathematics, which must include Mathematics 1000
- Biology 1001 and 1002
- Chemistry 1200 and 1001 or Physics 1020 (or 1050) and 1021 (or 1051)
- Nine credit hours at the 2000 level or above (two courses must be laboratory courses) in one of the following subjects: Biochemistry, Biology, Chemistry, Earth Science, Environmental Science, Physics
- Nine additional credit hours chosen in any combination from the following subjects: Biochemistry, Biology, Chemistry, Computer Science, Earth Science, Environmental Science, Mathematics, Physics, Statistics

7.2.1 Requirements for Honours in Psychology

Students completing this program cannot receive credit for Psychology 2920.

The Honours B.A. and B.Sc. degrees in Psychology offer greater concentration in the discipline and also require a higher level of academic achievement than is required for the completion of a degree. The Honours degrees in Psychology at Grenfell Campus are 120 credit hour programs normally requiring four years for completion (See **Regulations for the Honours Degrees of Bachelor of Arts and Bachelor of Science at Grenfell Campus**).

The following requirements govern the Bachelor of Arts (Honours) and the Bachelor of Science (Honours) degrees in Psychology:

1. Course Requirements

- Students must meet the General Regulations for Grenfell Campus Bachelor of Arts or Bachelor of Science degree.
- Candidates must also complete:
 - Psychology 1000, 1001, 2025, 2125, 2225, 2425, 2625, 2825, 2925, 2950, 3950, 4910, 4925
 - Fifteen credit hours from Psychology 3025,3040 3125, 3126, 3225, 3226, 3325, 3425, 3525, 3625, 3626, 3627, 3628, 3725, 3825
 - A two-semester research project, Psychology 4951 and 4959.
- Candidates for the Bachelor of Science (Honours) degree in Psychology shall also complete an additional 27 credit hours as follows:
 - Six credit hours in Mathematics, which must include Mathematics 1000
 - Biology 1001 and 1002
 - Chemistry 1200 and 1001 OR Physics 1020 (or 1050) and 1021 (or 1051)
 - Nine credit hours at the 2000 level or above (two courses of which must be laboratory courses) in one of the following subjects: Biochemistry, Biology, Chemistry, Earth Science, Environmental Science or Physics.

2. Honours Thesis

The Honours project sequence (Psychology 4951 and 4959) involves the production of an Honours thesis. This thesis will be evaluated by the thesis supervisor and an additional faculty member selected by mutual consent of the candidate and the supervisor.

7.3 Major in Social/Cultural Studies

Program Chair: Dr. M. Croll

The Major consists of 78 credit hours as follows:

Anthropology 1031, 2210, 3140, 3083, 3520
 Folklore 1000, 2100, 2230, 2300, 2401
 History 1100, 1101
 Social/Cultural Studies 4000, 4100, 4950
 Sociology 2000, 2120, 3040, 3150, 3314

Eighteen additional credit hours from Anthropology, Folklore, and Sociology

7.4 Major in Tourism Studies

Program Chair: Dr. R. Okech

7.4.1 Admission Modes and Requirements

7.4.1.1 Direct Entry (for High School Students)

Students may apply for admission into the first year of the Bachelor of Arts in Tourism Studies program (BA (TS)) directly from high school by indicating this in the appropriate place on their Undergraduate Application for Admission/Readmission to Memorial University of Newfoundland. Direct entry from high school is subject to the applicant's final acceptance to the University.

7.4.1.2 Advanced Standing (for Current Memorial University of Newfoundland Students)

- Students may apply for admission with Advanced Standing into the BA (TS) program. A student's placement within the program, and requirements needed to complete the program, will be determined on an individual basis at the time of admission. Students applying for admission with advanced standing must complete and submit the Application for Admission to the Chair of the Tourism Studies program. The deadline for submission of applications for consideration of admission is March 1 for Fall admission.
- Admission with Advanced Standing is limited and competitive. The primary criterion used in reaching decisions on applications for admission with advanced standing is overall academic achievement. Selection, therefore, will be based on a student's overall academic performance.

7.4.1.3 Transfers From Other Post-Secondary Institutions

- Students who are transferring from other universities must apply for admission to the University on or before the deadlines specified in the **University Diary** for the semester in which they intend to begin their program, to allow sufficient time for the evaluation of

transfer credits. The acceptance of transfer students into the BA (TS) program is subject to the same conditions outlined under Advanced Standing (for Current Memorial University of Newfoundland Students) above.

2. Subject to item 2. under **Advanced Standing (for Current Memorial University of Newfoundland Students)** above, graduates of a three year community college tourism-related diploma program may also be considered for admission with advanced standing into the BA (TS) program. Specific course requirements will be determined on an individual basis at the time of admission.

Students may apply for admission with Advanced Standing into the BA (TS) program beyond Year 1.

7.4.1.4 Regulations for a Major in Tourism Studies

The Major consists of a Tourism core which provides a broad appreciation of the implications of tourism activity in the context of social, cultural and physical environments.

The Tourism Studies program requires a total of 120 credit hours.

1. Students must successfully complete 60 credit hours as follows:
 - a. French 1501 and 1502
 - b. Economics 2010 and 2020
 - c. Business 1000;
 - d. three credit hours chosen from Geography 3222, Psychology 2925, Sociology 3040, Statistics 2500, Statistics 2550
 - e. Thirty-three credit hours in Tourism consisting of Tourism Studies 1000, 1100, 2000, 2201, 3100, 3240, 3800, 3900, 4010, 3 credit hours from 4900-4910, and 4950.
 - f. Three additional credit hours in Tourism Studies electives taken at the 2000 level.
 - g. Six additional credit hours in Tourism Studies electives taken at the 3000 or 4000 levels.
2. A minimum of 24 credit hours in an approved minor concentration area other than that of the Major.
3. Courses to make up the total of 120 credit hours, other than those required for the core program. Of these courses, not more than 6 credit hours shall be from courses in the Tourism Studies program.

7.5 Bachelor of Business Administration

Program Chair: J. Ryan

7.5.1 Regulations for the Degree of Bachelor of Business Administration (B.B.A.)

The Bachelor of Business Administration (B.B.A.) degree program at Grenfell Campus is designed to deliver a comprehensive foundation in the fundamental areas of business and decision making. Students also have an opportunity to further specialize in areas of contemporary business studies or small business and entrepreneurship.

7.5.2 Admission Modes and Requirements

7.5.2.1 Direct Entry (for High School Students)

Students may apply for admission into the B.B.A. program directly from high school by indicating this in the appropriate place on the Undergraduate Application for Admission/Readmission to Memorial University of Newfoundland. This form is available at the Office of the Registrar or online at www.Grenfell.mun.ca/regoff/Pages/Forms.aspx. Direct admission from high school is subject to the applicant's final acceptance to the University.

7.5.2.2 Advanced Standing (for Current Memorial University of Newfoundland Students)

Current Memorial University of Newfoundland students should select the B.B.A. program on Grenfell's DECLARATION/CHANGE ACADEMIC PROGRAM form, which must then be signed by the Business Program Chair. This form is available at the Office of the Registrar or online at www.Grenfell.mun.ca/regoff/Pages/Forms.aspx.

7.5.2.3 Transfers from Other Post-Secondary Institutions

1. Students who are transferring from other post-secondary institutions must apply for admission to the University on or before the deadlines specified in the **University Diary** for the semester in which they intend to begin their program, to allow sufficient time for the evaluation of transfer credits. The acceptance of transfer students into the B.B.A. program is subject to the same conditions outlined under **Advanced Standing (for Current Memorial University of Newfoundland Students)** above.
2. Graduates of a community college business diploma program may also be considered for admission with advanced standing into the B.B.A. program. To be eligible for the Degree of Bachelor of Business Administration such students will be required to complete a minimum of 45 credit hours from Memorial University of Newfoundland. Specific course requirements will be determined on an individual basis at the time of admission.

7.5.3 The Curriculum

1. The Bachelor of Business Administration requires a total of 120 credit hours. Candidates for graduation must achieve a grade point average of at least 2.5 and an overall numeric average of at least 60% on those 120 credit hours.
2. Students must complete 75 credit hours as follows:
 - a. Economics 2010 and 2020
 - b. six credit hours in first year English which must include English 1110 or 1021
 - c. Mathematics 1000
 - d. Statistics 2500
 - e. Business 1000, 1101, 1210, 1600, 2010, 2101, 2210, 2400, 2700, 3310, 3401, 4000, 4050, 4320, 4330, 4500, 5301, 7000, and 7010
Students who have received credit for both English 1000 and 1001 prior to Fall 2011 will not be required to complete English 1110.
3. Students must complete 15 credit hours from one of the following areas of concentration:

- a. **Contemporary Business Studies**
 - i. 9 credit hours as follows: Business 3350, Business 5302, Business 7050
 - ii. 6 credit hours chosen from: Business 3101, Business 5220, Business 5500, Business 5600, Economics 3150
 - b. **Small Business and Entrepreneurship**
 - i. 9 credit hours as follows: Business 5220, Business 5600, Business 7600
 - ii. 6 credit hours chosen from: Business 3210, Business 6500, Business 6600, Business 6610, Business 7610
4. Students must complete an additional 30 credit hours to make up the total 120 credit hours required for the degree of B.B.A. When selecting these courses, students are reminded that the **Core Requirements** for a Grenfell degree program must be met. In addition, if students choose to complete a minor within the B.B.A. program, they are advised to choose their electives carefully so that they will also meet the requirements for the chosen Minor program as set forth in the University Calendar.

7.5.4 Minor from another Academic Unit

Students enrolled in the B.B.A. program are not required to complete minor programs; however, students may choose to pursue a minor in other non-business academic units (where minor programs exist) with permission of that academic unit.

Students are advised to refer to the requirements for the chosen Minor program as set forth in the University Calendar, and it is recommended that students seek academic advice when planning their program.

7.5.5 Recommended Course of Study for B.B.A. Curriculum

7.5.5.1 Contemporary Business Studies

- Depending on the level of preparation in Mathematics, students may be required to complete Mathematics 1090 as a prerequisite for Mathematics 1000.
- When choosing electives, students are reminded that **Core Requirements** for a Grenfell Campus degree program must be met. In addition, if students choose to complete a minor within the B.B.A. program, they are advised to select their electives carefully so that they will also meet the requirements for the chosen Minor program as set forth in the University Calendar.
- Concentration electives for Contemporary Business Studies must be selected from **The Curriculum**, 3a.

Contemporary Business Studies Table

Year 1 Business 1000 Economics 2010 Economics 2020 6 credit hours in first-year English which must include English 1110 Mathematics 1000 12 credit hours in non-business elective courses	Year 3 Business 2400 Business 2700 Business 3350 Business 3401 Business 4000 Business 4320 Business 4330 Business 4500 3 credit hours from concentration electives 3 credit hours in other elective courses
Year 2 Business 1101 Business 1210 Business 1600 Business 2010 Business 2101 Business 2210 Business 3310 Statistics 2500 6 credit hours in elective courses	Year 4 Business 4050 Business 5301 Business 5302 Business 7000 Business 7010 Business 7050 3 credit hours from concentration electives 9 credit hours in other elective courses

7.5.5.2 Small Business and Entrepreneurship Concentration

- Depending on the level of preparation in Mathematics, students may be required to complete Mathematics 1090 as a prerequisite for Mathematics 1000.
- When choosing electives, students are reminded that **Core Requirements** for a Grenfell Campus degree program must be met. In addition, if students choose to complete a minor within the B.B.A. program, they are advised to select their electives carefully so that they will also meet the requirements for the chosen Minor program as set forth in the University Calendar.
- Concentration electives for Contemporary Business Studies must be selected from **The Curriculum**, 3a.

Small Business and Entrepreneurship Concentration Table

Year 1 Business 1000 Economics 2010 Economics 2020 6 credit hours in first year English which must include English 1110 Mathematics 1000 12 credit hours in non-business elective courses	Year 3 Business 2400 Business 2700 Business 3401 Business 4000 Business 4320 Business 4330 Business 4500 Business 5220 3 credit hours from concentration electives 3 credit hours in other elective courses
Year 2 Business 1101 Business 1210 Business 1600 Business 2010 Business 2101 Business 2210 Business 3310 Statistics 2500 6 credit hours in elective courses	Year 4 Business 4050 Business 5301 Business 5600 Business 7000 Business 7010 Business 7600 3 credit hours from concentration electives 9 credit hours in other elective courses

7.6 Bachelor of Resource Management

Program Chair: Dr. R. Scott

7.6.1 Regulations for the General Degree of Bachelor of Resource Management

The program consists of a Sustainable Resource Management core which provides an interdisciplinary understanding of management activities within the context of the physical, social and economic environments.

The program requires a total of 120 credit hours as follows:

1. The interdisciplinary Major in Sustainable Resource Management consisting of 84 credit hours.
 - a. Biology 1001, 1002, 2600
 - b. Chemistry 1200 and 1001, or equivalent
 - c. Economics 2010
 - d. Environmental Studies 2000, 3000, 3001, 4000
 - e. Geography 1000, 1001, 2425
 - f. Sustainable Resource Management 2000, 2001, 3000, 3001, 3002, 4000, 4001, 4003, 4010, 4950
 - g. One of Philosophy 2561, Religious Studies 3880, Political Science 3550
 - h. Two of Environmental Science 2371, Environmental Science 2369, Biology 2010, Biology 2122, Biology 2210
 - i. Statistics 2500
 - j. One of Environmental Science 3072, 3110, 3130, 3131, 4132, Earth Science 3811
2. 6 credit hours in first-year English
3. 30 credit hours in elective courses. When selecting electives, students are reminded that the **Core Requirements** for a Grenfell Campus degree program must be met.

7.7 Minor Programs - Division of Social Science

Minor programs require 24 credit hours

1. Minor in Business

- a. Students completing a minor in Business must declare their intent to do so on the Grenfell's DECLARATION/CHANGE ACADEMIC PROGRAM form, which then must be approved by the Chair of the Business Program. This form is available at the Office of the Registrar or online at www.Grenfell.mun.ca/regoff/Pages/Forms.aspx.
- b. A minor in Business consists of 24 credit hours. Students must complete 18 credit hours as follows: Business 1000, 1101, 1210, 3310, 4500, and 7010. The remaining 6 credit hours must be chosen from Business 1600, 2101, 2210, 3350, 4000, 4050, 4320, or the former 7302.
- c. Course prerequisites to all Business courses will apply to a Business minor. Students should note, for example, that the prerequisites for Business 4500 are Business 1101, Statistics 2500 and Economics 2010, and that enrolment in Business 7010 requires permission of the Chair of Business. It should also be noted that some courses are not offered every semester.

2. Canadian Studies Minor

A Minor in Canadian Studies shall consist of 24 credit hours as follows:

- a. Fifteen credit hours chosen from at least four different disciplines:
 - English 2146
 - English 2156
 - French 1502
 - French 2601
 - French 2602
 - History 2200
 - History 2210
 - Political Science 1010
 - Political Science 2710

Political Science 2711
Sociology/Anthropology 2240

- b. Nine additional credit hours in courses from at least two different disciplines:
- Art History 3710
 - Art History 3711
 - English 3145
 - English 3147
 - English 3148
 - English 3149
 - English 4307
 - English 4825-35
 - Folklore 4300
 - History 2120
 - History 3520/Anthropology 3520
 - History 3525/Anthropology 3525
 - History 4254
 - Political Science 3731
 - Sociology 3395
3. **Economics Minor:**
- a. Economics 2010, 2020, 3000, 3010
 - b. Twelve additional credit hours in Economics of which at least 6 must be at the 3000 or 4000-level
4. **Environmental Studies Minor:**
- a. Environmental Studies 1000 and 9 credit hours from those designated as Environmental Studies core courses
 - b. Twelve credit hours from one of the Environmental Studies concentrations or a combination of courses taken from both concentrations. The courses chosen must be chosen from at least three subject areas.
5. **Folklore Minor:**
- a. Folklore 1000, 2100, 2300, 2401, 2500
 - b. Nine additional credit hours in Folklore
6. **Geography Minor:**
- a. Geography 1000, 1001, 2001, 2102, 3222
 - b. Nine additional credit hours in Geography; at least 6 credit hours of which must be at the 3000 or 4000 level.
7. **Psychology Minor:**
- a. Psychology 1000, 1001
 - b. Eighteen credit hours in Psychology at the 2000 level or above
8. **Social/Cultural Studies Minor:**
- a. Anthropology 1031, Sociology 2000, Folklore 1000
 - b. Anthropology 2410 or Sociology 3150
 - c. Folklore 2100 or Sociology 3040
 - d. Three additional credit hours in each of Anthropology, Folklore, and Sociology
9. **Sociology Minor:**
- a. Sociology 2000, 3040, 3150
 - b. Fifteen credit hours in Sociology; at least 6 credit hours must be at the 3000 or 4000 level
10. **Tourism Studies Minor:**
- a. Students who are completing degrees in Arts, Science, and/or Business Administration may complete a minor in Tourism Studies.
 - b. Students who wish to undertake the Tourism Studies minor program must have completed a minimum of 18 credit hours. Application is made in the space provided on the Change of Academic Program Form, which must then be approved by the Chair of the Tourism Studies program. Admission into the minor program is limited and competitive.
 - c. A minor in Tourism shall consist of 24 credit hours comprising the following courses: Tourism 1000, 1100, 2000, 3100, 3900, 3 credit hours chosen from a 2000-level or 3000-level Tourism elective, 3 credit hours chosen from a 4000-level Tourism course, and three credit hours chosen from Geography 3222, Psychology 2925, Sociology 3040, Statistics 2500, Statistics 2550.
 - d. Course prerequisites to all Tourism courses shall apply to a Tourism Studies minor.
11. **Advanced Diploma in Tourism Studies:**
- The Advanced Diploma in Tourism Studies is designed for individuals already possessing a post-secondary diploma or degree in any relevant field who wish to acquire the knowledge and skills required to work in today's tourism industries. The program will benefit individuals from a wide variety of backgrounds including, Business, Environmental Science, Environmental Studies, Fine Arts, Historical Studies, Social/Cultural Studies, and Sustainable Resource Management (proposed).
- a. Students who wish to undertake the Advanced Diploma in Tourism Studies must have completed a post-secondary diploma or degree in any field, or possess at least five years of full-time, relevant work experience or equivalent. Application is made in the space provided on the Change of Academic Program Form, which must then be approved by the Chair of the Tourism Studies Program. Admission into this program is limited and competitive.
 - b. The Advanced Diploma in Tourism Studies shall consist of 30 credit hours comprising the following courses: Tourism 1000, 1100, 2000, 3100, 3900, 12 credit hours chosen from a 2000-level or 3000-level Tourism electives, and 3 credit hours chosen from a 4000-level Tourism course.
 - c. Prerequisites for all Tourism courses may be waived after consultation with, and permission of, the Chair of the Tourism Studies program.

7.8 Articulation Agreements With the College of the North Atlantic

Students who have graduated from the two-year Adventure Tourism Diploma Program offered by the College of the North Atlantic, or

who are in their final semester of this program, can apply for entry with advanced standing into the Bachelor of Arts Degree (B.A.) with a Major in Environmental Studies or Tourism Studies offered by Grenfell Campus. Students who have graduated from the two-year Hospitality Management Diploma Program offered by the College of the North Atlantic, or who are in the final semester of this program can apply for entry with advanced standing into the B.A. degree, Major in Tourism Studies, offered by Grenfell Campus.

Students who have graduated from either the two-year Fish and Wildlife Technician program or the two-year Forest Resources Technician Diploma program offered by the College of the North Atlantic, or who are in their final semester of one of these programs, can apply for entry with advanced standing into the Bachelor of Resource Management (B.R.M.) offered by Grenfell Campus.

7.8.1 Environmental Studies Major for Graduates of the Two-Year Adventure Tourism Diploma Program

Students who are entering the Environmental Studies Program will be given a total of 60 credit hours towards the 120 credit-hour degree program. Of the 60 credit hours, students taking the Outdoor Environmental Pursuits Concentration will receive credit for EVST 2210, EVST 2220, EVST 3210, HKR 3555, and HKR 4555 as well as 18 unspecified credit hours towards the concentration requirements. Of the 60 credit hours, students taking the Environmental Perspectives Concentration will receive 21 unspecified credit hours towards the concentration requirements.

Students will receive 3 credit hours for unspecified writing courses, 6 unspecified credit hours towards the Group B and 6 credit hours towards Group C breadth of knowledge requirement. The remaining credit hours will be deemed to be unspecified electives.

In addition to the general requirements for the Grenfell Campus B.A. degree, students will be required to complete the following requirements for the Environmental Studies major:

Environmental Studies Core

Economics 2010
 Environmental Studies 2000
 Environmental Studies 3000
 Environmental Studies 3001
 Environmental Studies 4010
 Environmental Studies 4950
 Geography 3222
 Philosophy 2561

Additional Requirements Based on Concentration

For Students taking the Outdoor Environmental Pursuits Option:

Fifteen credit hours of the following courses of which at least 9 credit hours must be at the 3000 or 4000 level:

Anthropology 3083
 Biology 1001 and 1002
 Biology 2041
 Biology 2600
 Chemistry 1001
 Chemistry 1200
 Earth Sciences 1000
 Earth Sciences 1002
 Environmental Science 2261
 Environmental Science 2360
 Environmental Science 2370
 Environmental Studies 4020-4039
 Environmental Studies 4000
 Folklore 2600
 Forestry 1010 and 1011
 Geography 1001
 Geography 2102
 Geography 2425
 Political Science 3731
 Religious Studies 3880

For Students taking the Environmental Perspectives Concentration:

27 credit hours of the following courses of which 18 must be at the 3000 or 4000 level:

Anthropology 3080
 Anthropology 3083
 Biology 1001 and 1002
 Biology 2041
 Biology 2600
 Chemistry 1001
 Chemistry 1200
 Earth Sciences 1000
 Earth Sciences 1002
 Environmental Science 2261
 Environmental Science 2360
 Environmental Science 2370
 Environmental Science 2371
 Environmental Studies 4020-4039
 Environmental Studies 4000
 Folklore 2401
 Folklore 2600
 Forestry 1010 and 1011
 Geography 1001
 Geography 2001
 Geography 2102
 Geography 2302
 Geography 2425

Political Science 3550
 Political Science 3731
 Religious Studies 3880
 Sociology 2120

Note: *The required Philosophy 2809 and the optional Religious Studies 3550 can be used to fulfil the Group A breadth of knowledge requirement. The required Environmental Studies core courses will fulfil the Quantitative Reasoning and Analysis requirement.*

7.8.2 Tourism Studies Major for Graduates of the Two-Year Adventure Tourism Diploma Program

Students who have graduated from the two-year Adventure Tourism Diploma Program offered by the College of the North Atlantic and who are entering the Tourism Studies Program will be given a total of 54 credit hours towards the 120 credit-hour degree program. Students will be required to complete an additional 66 credit hours for the Grenfell Campus B.A. Degree, Major in Tourism Studies as follows:

1. English 1000 and 1001
2. French 1501 and 1502
3. 3 credit hours chosen from Geography 3222, Psychology 2925, Sociology 3040, Statistics 2500, Statistics 2550
4. 21 credit hours in Tourism Studies as follows: Tourism 1000, 1100, 3240, 3900, 4010, 3 credit hours from 4900-4910, and 4950
5. 24 credit hours in Minor program
6. 6 credit hours in elective

Note: *When selecting courses for minor or electives, students must select 6 credit hours in **Designated Writing Courses**, as indicated under **Grenfell Campus Core Program Requirements***

7.8.3 Tourism Studies Major for Graduates of the Two-Year Hospitality Management Diploma Program

Students who have graduated from the two-year Hospitality Management Diploma Program offered by the College of the North Atlantic and who are entering the Tourism Studies Program will be given a total of 45 credit hours towards the 120 credit-hour degree program. Students will be required to complete an additional 75 credit hours for the Grenfell Campus B.A. Degree, Major in Tourism Studies as follows:

1. English 1000 and 1001
2. French 1501 and 1502
3. Economics 2010 and 2020
4. 3 credit hours chosen from Geography 3222, Psychology 2925, Sociology 3040, Statistics 2500, Statistics 2550
5. 24 credit hours in Tourism Studies as follows: Tourism 1100, 2000, 3100, 3240, 3900, 4010, 3 credit hours from 4900-4910, and 4950
6. 24 credit hours in Minor program
7. 6 credit hours in elective

Note: *When selecting courses for minor or electives, students must select 6 credit hours from **Breadth of Knowledge Requirement**, Group C as indicated under **Grenfell Campus Core Program Requirements**.*

7.8.4 Bachelor of Resource Management for Graduates of the Two-Year Fish and Wildlife Technician Diploma Program

Students who have graduated from the two-year Fish and Wildlife Diploma Program offered by the College of the North Atlantic and who are entering the Bachelor of Resource Management (B.R.M.) Program will be awarded a total of 60 credit hours towards the 120 credit-hour degree program. Students will be required to complete an additional 60 credit hours for the Grenfell Campus B.R.M. Degree as follows:

1. Chemistry 1200, 1001
2. Economics 2010
3. English 1000
4. Environmental Studies 3000, 3001, 4000
5. Geography 1001
6. Sustainable Resource Management 2000, 2001, 3000, 3001, 3002, 4000, 4001, 4010, 4950
7. One of Environmental Science 3072, 3110, 3130, 3131 or Earth Sciences 3811
8. 6 credit hours in elective courses. Three of these credit hours must be chosen from Art History, Classics, English, History, Humanities, Languages, Philosophy, Religious Studies, Theatre, or Visual Arts.

7.8.5 Bachelor of Resource Management for Graduates of the Two-Year Forest Resources Technician Diploma Program

Students who have graduated from the two-year Forest Resources Diploma Program offered by the College of the North Atlantic and who are entering the Bachelor of Resources Management (B.R.M.) Program will be awarded a total of 60 credit hours towards the 120 credit-hour degree program. Students will be required to complete an additional 60 credit hours for the Grenfell Campus B.R.M. Degree as follows:

1. Biology 1002, 2600
2. Chemistry 1200, 1001
3. Economics 2010
4. English 1000
5. Environmental Studies 3000, 3001, 4000
6. Geography 1001

7. Sustainable Resource Management 2000, 2001, 3000, 3001, 3002, 4000, 4001, 4010, 4950
8. Three credit hours in elective courses. Three of these credit hours must be chosen from Art History, Classics, English, History, Humanities, Languages, Philosophy, Religious Studies, Theatre, or Visual Arts.

8 Division of Science

Bachelor of Science (General and Honours) degrees are available in Environmental Science, General Science and Psychology. Minors are available in Environmental Science, Mathematics, Science.

An articulation agreement has been established with the College of the North Atlantic for those students who have completed the three-year Environmental Technology diploma program and who wish to obtain a Bachelor of Science degree (Major in Environmental Science).

8.1 Major in Environmental Science

Program Chair: Dr. M. Krishnapillai

The Major consists of an Environmental Science Core which provides a broad appreciation of the interrelationships inherent in any study of the environment and one of two possible streams which provide the depth and focus for the degree program.

1. Environmental Science Core

The student must complete at least 45 credit hours as follows:

- a. Biology 1001, 1002, 2600
Earth Science 1000
Mathematics 1000* (or 1080 and 1081), Statistics 2550 or equivalent
One of Physics 1020* or 1050* and one of Physics 1021* or 1051*
Environmental Science 4000
Environmental Science 4950 (or 4951, see **Requirements for Honours in Environmental Science (B.Sc.)**)
- b. At least two of:
Anthropology 3083
Economics 2010
Environmental Studies 3000
Environmental Studies 4000
Philosophy 2561
Political Science 3550
Political Science 3731
Religious Studies 3880
- c. At least three of:
Environmental Science 2261
Environmental Science 2360
Environmental Science 2370
Environmental Science 2371
Environmental Science 2430
Environmental Science 2450
Environmental Science 3072
Environmental Science 3470
Environmental Studies 2000 **

*It is strongly recommended that students considering the Chemistry stream of the Environmental Science program complete these courses in their first year.

**This course is strongly recommended for the Biology Stream of the Environmental Science program.

2. Environmental Science Streams

Students must complete at least 39 credit hours in one of the following streams:

a. Biology stream

Biology 2010, 2122
Chemistry 1200/1001 sequence or Chemistry 1011/1031 sequence or Chemistry 1050/1051 sequence, and one of Chemistry 2210 or Chemistry 2300 (or 2301) or 2440 or 2400/2401 sequence, or Chemistry 1010/1011 sequence and Chemistry 2440
ENVS 3110, 3130, 3131, 4132, 4140 (or equivalent field course)
Two of Envs 4069, 4131, 4133, 4240, 4479
one additional laboratory (Science/Statistics/GIS) course beyond the first year level excluding Environmental Science Core courses. A course used to fulfill a stream requirement cannot also be used as a Group c. course in the Environmental Science Core.

b. Chemistry stream

Chemistry 1200/1001 sequence or Chemistry 1011/1031 or Chemistry 1050/1051 sequence. It is strongly recommended that students complete one of these sequences of Chemistry courses in their first year.
Chemistry 2210, 2300 (or 2301), Chemistry 2400/2401 or equivalent
Environmental Science 2261, 3210, 3211, 3260, 3261, 4230
Two of Environmental Science 4069, 4131, 4240, 4249, 4479
Mathematics 1001 which should be completed in the first year of studies

8.2 Requirements for Honours in Environmental Science (B.Sc.)

The Bachelor of Science (Honours) degree in Environmental Science offers greater concentration in the discipline and also requires a higher level of academic achievement than is required for completion of the general degree. The Bachelor of Science (Honours) in Environmental Science at Grenfell Campus is a 120 credit hour program normally requiring four years for completion. (See **Regulations for the Honours Degrees of Bachelor of Arts and Bachelor of Science at Grenfell Campus.**) Students will normally not be allowed to repeat courses to fulfil the academic standing criteria for the Bachelor of Science (Honours) in Environmental Science. For students completing an Honours degree in "open" programs the appropriate courses to be used in calculation of academic standing will be determined by the program unit and will be approved by the Academic Studies Committee.

The following requirements govern the Bachelor of Science (Honours) in Environmental Science:

8.2.1 Course Requirements

1. Students must meet the General Regulations for Grenfell Campus Bachelor of Science degree.
2. Candidates must also complete:

Students must complete 75 credit hours as follows:

 - a. the Environmental Science Core requirements
 - b. the course requirements of a specific stream
3. Candidates must complete 3 additional credit hours in courses at the 4000 level. These courses normally will be drawn from the candidates's honours stream as follows:
 - a. For the Honours Bachelor of Science in Environmental Science (Biology), a further course chosen from: Environmental Science 4069, 4131, 4133, 4240, 4479
 - b. For the Honours Bachelor of Science in Environmental Science (Chemistry), a further course chosen from: Environmental Science 4069, 4131, 4240, 4249, 4479
4. Students, in close consultation with a faculty advisor and the agreement of the Chair of the Program, may select fourth-year honours requirement courses in place of those required in Section 1.c. (above), so long as such selections are consistent with the Major to which they are added. Such honours selections will be subject to approval by the Academic Studies committee.
5. Honours graduates of the Environmental Science Program will have also completed a two-semester research project consisting of a research proposal and literature review course (Environmental Science 4951) and a research project course (Environmental Science 4959).

8.2.2 Honours Dissertation

The honours project sequence (Environmental Science 4951 and 4959) involves the production of an honours dissertation. This dissertation will be evaluated by a three member committee that includes the dissertation supervisor(s) and that is approved by the Environmental Science faculty unit.

8.2.3 Academic Standing

1. In order to graduate with an Honours degree, the candidate must satisfy the regulations regarding academic standing as specified under **Regulations for Honours Degree of Bachelor of Science at Grenfell Campus**.
2. Courses used to calculate the academic standing as outlined in the **General Regulations for an Honours Degree at Grenfell Campus** include all required Environmental Science and Chemistry courses for the Chemistry stream students and all required Environmental Science and Biology courses for the Biology stream students, excluding, in both cases, 1000 level courses.
3. More specifically, courses normally used for calculations would be:

Biology stream

Biology 2010, 2122, 2600

Three of: Environmental Science 2261, 2360, 2370, 2371, 2430, 2450, 3072, 3470, or Environmental Studies 2000

Environmental Science 3110, 3130, 3131, 4132, 4140 (or equivalent)

Three of: Environmental Science 4069, 4131, 4133, 4240, 4479

Environmental Science 4000, 4951, 4959

Chemistry stream:

Chemistry 2210, 2300 (or 2301) Chemistry 2400, Chemistry 2401

Two of: Environmental Science 2360, 2370, 2371, 2430, 2450, 3072, 3470, or Environmental Studies 2000.

Environmental Science 2261, 3210, 3211, 3260, 3261, 4230

Three of: Environmental Science 4069, 4131, 4240, 4249, 4479

Environmental Science 4000, 4951, 4959

8.3 Major in General Science

Program Chair: TBA

Students completing the Major in General Science will complete a General Science Core. In addition, they will complete a minimum of 24 credit hours (or 18 credit hours in the case of Mathematics) in each of three streams chosen from Biology, Chemistry, Earth Systems, Mathematics or Physics. A student may not use the same course to satisfy the requirements of more than one stream. Students planning their course selection should be aware of the fact that most senior level science courses have one or more specified prerequisites.

The allowable courses that can be chosen from each stream are listed below.

1. **General Science Core**

Students must complete:

a. **Course Requirements**

Mathematics 1000, 1001

Science 4000 (General Science Seminar)

b. **Independent Project**

Science 4950

2. **General Science Streams**

Students must complete at least 24 credit hours in each of three streams, chosen from the following list of courses:

Biology:

Biology 1001, 1002

Eighteen credit hours from Biology 2010, 2122, 2210, 2250, 2600, 3053, Environmental Science 3072, 3110, 3130, 3131, 4140 (or equivalent field course) where at least 6 credit hours must be beyond the 2000 level.

Chemistry:

Chemistry 1001, 1200, 2210, 2300 (or 2301)

Either Chemistry 2440 or both Chemistry 2400 and 2401

Students who have completed Chemistry 2440 must complete another 9 credit hours from Environmental Science 2261, 3210, 3211, 3261, 4230, 4240; students who have completed Chemistry 2401 must complete another 6 credit hours from Environmental Science 3210, 3211, 3260, 3261, 4230, 4240.

Earth Systems:

Earth Science 1000, 1001 or 1002

Any 18 credit hours (six courses) from the following list, at least 6 credit hours of which are beyond the 2000 level: Environmental Studies 2000, 3001, Environmental Science 2360, 2369, 2370, 2371, 2430, 2450, 3072, 3470, 4069, 4479, Earth Science 2150, 3811.

Mathematics:

Mathematics 1000, 1001, 2000, 2050, 2320

Nine additional credit hours beyond the 1000 level chosen from Mathematics or Statistics, at least 6 which must be beyond the 2000 level.

Physics:

Physics 1050, 1051, 2056, 2065, 3060, 3220

Two of Physics 2151, 2553, 3160, Earth Science 2150, Environmental Science 2430, 2450, 3470, 4479

8.4 Requirements for Honours in the General Science Degree

The Bachelor of Science (Honours) degree in General Science requires students to gain greater depth in one or more of their three chosen streams. It also requires a higher level of academic achievement than is required for the general degree. The Bachelor of Science (Honours) in General Science is a 120 credit hour program normally requiring four years for completion (see **Regulations for an Honours Degree in Arts and Science at Grenfell Campus**).

The following requirements govern the Bachelor of Science (Honours) in General Science:

8.4.1 Course Requirements

1. General Science Core:

Students must complete all of the course requirements of the General Science Core.

2. General Science Streams:

In addition to the courses required under the General Degree regulations, students must complete two additional courses from at least one of their three chosen streams. These additional courses must come from the list of courses given in the stream requirements, and must both be beyond the 2000 level.

3. Honours Dissertation:

For students doing Honours, the Independent Project Science 4950 will be replaced by a two-semester Honours Project, Science 4951/Science 4959.

4. Academic Standing:

In order to graduate with an Honours degree, a student must satisfy the regulations regarding academic standing as specified under **Regulations for Honours Degree of Bachelor of Science at Grenfell Campus**. Courses used to calculate the academic standing as outlined in the General Regulations for an Honours Degree at Grenfell Campus include all courses listed in the stream requirements, with the exception of all 1000 level courses.

8.5 Minor Programs - Division of Science

Environmental Science Minor:

Students may choose one of the following three options:

1. Environmental Science

- Biology 1001, 1002 and 2600 or Chemistry 1200, 1001, and one of Chemistry 2440 or Environmental Science 2261
- Additional 15 credit hours in science courses within the Environmental Science program of which at least 6 credit hours must be at the 3000 or 4000 level

2. Environmental Science-Biology

- Biology 1001, 1002, 2010, 2122, 2600
- Three credit hours from Environmental Science 3110, 3130, 3131, 4131
- An additional 6 credit hours in courses with the Environmental Science designation of which at least 3 credit hours must be at the 3000 or 4000 level.

3. Environmental Science-Chemistry

- Chemistry 1200, 1001, 2210, 2300 (or 2301), Chemistry 2440
- Three credit hours from Environmental Science 3210, 3261, 4240
- An additional 6 credit hours in courses with the Environmental Science designation of which at least 3 credit hours must be at the 3000 or 4000 level

Mathematics Minor:

- Mathematics 1000, 1001 (The only other course at the 1000 level which carries credit toward a Minor in Mathematics is Computer Science 1700.)
- 18 additional credit hours in Mathematics courses beyond 1000 level or 15 additional credit hours in Mathematics courses beyond 1000 level and 3 credit hours in Statistics or Computer Science courses.

At least 6 credit hours will be in courses at the 3000 level or higher.

Science Minor:

Students pursuing the Minor in Science may choose courses from the following disciplines: Biology, Chemistry, Computer Science, Earth Science, Environmental Science, Mathematics, Physics, Science, and Statistics. Students who have completed courses drawn from other Science disciplines must obtain approval of the Head of Science.

- Mathematics 1000

2. Six additional credit hours in first year science courses (At least 3 credit hours must be in a laboratory course chosen from any science discipline except mathematics).
3. Five science courses beyond the 1000 level, at least 6 credit hours of which must be beyond the 2000 level. (Mathematics 1001 may be substituted for one of the 2000 level science courses).

8.6 Articulation Agreement With the College of the North Atlantic

8.6.1 For Graduates of the Three-Year Environmental Technology Diploma Program

Students who have graduated from the three-year Environmental Technology Diploma Program offered by the College of the North Atlantic, or who are in their final semester of this program, can apply for entry with advanced standing into the Environmental Science Degree Program offered at Grenfell Campus. Upon admission to the university, such students will enter the second year of either stream of the Environmental Science Degree Program.

They will be given unspecified credit for 45 credit hours towards the 120 credit-hour degree program. Included in these 45 credit hours will be 9 credit hours for unspecified writing courses, of which 6 credit hours will be at the 1000 level and three will be at the 2000 level. In addition, 6 of these credit hours will be for unspecified credit at the 2000 level satisfying Group B, breadth of knowledge requirement.

Students gaining entry into the Environmental Science Degree Program at Grenfell Campus will need to satisfy all other core program requirements specified for Grenfell Campus degree programs. As well, they will need to satisfy all other course requirements specified for their specific stream in Environmental Science.

Upon admission into the second year of the Environmental Science Degree Program, students will be required to complete the following:

Core Program Requirements:

Six credit hours from Group A Breadth of Knowledge Requirement

21 credit hours in additional designated Writing (W) courses which may include Environmental Science core and stream courses

Environmental Science Core:

Biology 2600 (W)

Environmental Science 4000 (W)

Environmental Science 4950 (W) (students who intend to complete the honours option will complete Environmental Science 4951 (W) and Environmental Science 4959 (W))

Statistics 2550 or equivalent

1. At least two of:

Anthropology 3083

Economics 2010

Environmental Studies 3000

Philosophy 2561 (W)

Political Science 3731, 3550

Religious Studies 3880 (W)

2. At least three of:

Environmental Science 2261, 2360, 2370(W), 2371(W), 2430, 2450, 3072, 3470

Environmental Studies 2000 or equivalent

Biology Stream:

Biology 2010, 2122 (W)

Chemistry 2300 or 2440 or 2400/2401

Environmental Science 3110, 3130, 3131, 4132, 4140 (or an equivalent field course)

Six credit hours from Environmental Science 4069, 4131, 4133, 4240, 4479 (Honours students must complete 9 credit hours from this list)

Three credit hours in an additional science or statistics laboratory course at the 2000 level or higher, excluding Environmental Science core courses

Chemistry Stream:

Chemistry 2210(W), 2300, 2400, 2401

Environmental Science 2261, 3210(W), 3211(W), 3260, 3261, 4230

Six credit hours from Environmental Science 4069, 4131, 4240, 4249, 4479 (Honours students must complete 9 credit hours from this list)

9 Division of Fine Arts

Bachelor of Fine Arts degrees are available in Theatre and in Visual Arts. Students completing a Fine Arts degree are not required to follow the Grenfell Campus Core program requirements.

The Minor Program is available in Art History.

9.1 Bachelor of Fine Arts (Theatre)

The Bachelor of Fine Arts (Theatre) program is designed to educate and train the student in the history, theory and practice of the theatre arts. The degree provides an undergraduate training, delivered by theatre professionals, that will prepare students to enter a professional graduate school of theatre, theatre conservatory or an apprenticeship in the theatre profession. The degree also provides a broad liberal arts education with a strong component of dramatic literature, enabling the graduate to pursue a variety of careers outside the theatre profession.

In recognition of the relative isolation of the Grenfell Campus and the need for students of the performing arts to be exposed to examples of excellence in their field of study, provision will be made for students in their senior years to visit major theatre centres outside the province (e.g. the Harlow Campus will be utilized for studies in London and Stratford).

9.1.1 Admission Requirements

1. Academic Requirements

Applicants must meet the general admission requirements of the University.

2. Audition

In addition to meeting the general admission requirements of the University, applicants for the Bachelor of Fine Arts (Theatre) must

undergo an audition/interview to the satisfaction of the department. Enrollment in the Bachelor of Fine Arts (Theatre) is limited and selection is competitive.

3. The deadline for submission of Theatre application forms is March 31st of the year in which admission is sought.

9.1.2 Academic Performance

1. Attendance and participation in all studio courses and production rehearsals is vital to the collaborative nature of the program of study in Theatre. Absence from classes or rehearsals of any one student could jeopardize a production, the proper dissemination of practical skills and the overall safety of the students. Therefore attendance at all studio classes, rehearsals and crew calls will be compulsory.
2. Students who fail a studio course shall not take more advanced courses in that discipline until the failed course has been satisfactorily completed.
3. Students shall complete all 1000 level Theatre courses before advancing to any 2000 level Theatre course.
4. A candidate whose average in the Theatre courses for the B.F.A. degree falls below 65 percent in any semester will be placed on probation within the program. A student placed on probation at the end of the final semester of the Theatre program will not be recommended for graduation.
5. A candidate will be required to withdraw from the program if the candidate's average in Theatre courses falls below 65 percent in each of two consecutive semesters of his/her enrollment in the program.
6. Candidates who have withdrawn or who have been required to withdraw from the Bachelor of Fine Arts (Theatre) program and wish to re-enter the program must re-apply in competition after a lapse of two semesters by April 30 for the upcoming Fall semester, or by August 30 for the upcoming Winter semester.
7. Candidates who have been required to withdraw twice from the Bachelor of Fine Arts (Theatre) program shall be ineligible for further admission.
8. The Bachelor of Fine Arts (Theatre) program is intended for full-time students only. Students are strongly advised to take the full course load as prescribed each semester and so progress through the degree in clearly defined blocks of courses.

9.1.3 Degree Regulations

Where circumstances warrant any prerequisite(s) for Theatre courses may be waived by the Program Chair.

Students in their first year will not be allowed to participate in theatre productions. Exceptions will be made only with the permission of the Head of the Division of Fine Arts, and permission will be given only where a student demonstrates satisfactory performance.

Where circumstances warrant, a student in second or third year may be given the opportunity for advanced responsibilities in production with the permission of the Program Chair. Permission will be given only where a student demonstrates above average academic performance as well as exceptional theatrical ability.

Productions will constitute the designated number of rehearsal hours as described below. However, the final week of rehearsals (technical rehearsals) will include ten hour days on Saturday and Sunday. All performances will take place in the evenings with the possible exceptions of occasional matinees.

Any departmental regulations may be waived by the Committee on Undergraduate Studies upon request of the Program Chair by the appropriate Committee on Undergraduate Studies.

To be awarded the Bachelor of Fine Arts (Theatre) a student shall successfully complete 120 credit hours which would normally be completed over a four-year period and must be chosen in accordance with the following pattern:

1. English 1000 and 1001 or equivalent
2. Visual Arts 2700 and 2701
3. Eighteen credit hours in dramatic literature as follows:
English 2350 and 2351 (Surveys of major dramatic texts)
English 3205 or 3200 or 3201 (Shakespeare)
English 3275 (Modern Drama)
Two Dramatic Literature courses to be selected from the following: English 3021, 3022, 3156, 3171, 3181, 3206, 3260, 4210, 4211, 4301, 4305, 4307, 4308, 4316, 4317
4. Fifteen credit hours in academic elective courses
5. Seventy-five credit hours in Theatre chosen in accordance with the following pattern:
Theatre 1000, 1001, 1010, 1020, 4030, 4040, and 4001 (Harlow Institute - 10 credit hours) and
Forty-seven credit hours in one of the following Majors:
Acting:
Theatre 1110, 2010, 2011, 2080, 2081, 3010, 3011, 3070, 3071, 3080, 3081, 4010, 4070, and 4080
or
Stagecraft:
Theatre 1120, 2020, 2021, 2090, 2091, 3020, 3021, 3060, 3061, 3090, 3091, 4020, 4060, and 4090

9.1.4 Course Structure for the Bachelor of Fine Arts in Theatre

Year 1	Year 3
Fall Theatre 1000 Theatre 1010 Theatre 1020 English 1000/1050 Elective	Fall Theatre 3010 or Theatre 3020 Theatre 3060 or Theatre 3070, Theatre 3080 or Theatre 3090 English 3275 Elective
Winter Theatre 1001 Theatre 1110 or Theatre 1120 English 1001/1051 Elective Elective	Winter Theatre 3011 or Theatre 3021 Theatre 3061 or Theatre 3071 Theatre 3081 or Theatre 3091 Dramatic Literature course Elective
Year 2	Year 4
Fall Theatre 2010 or Theatre 2020 Theatre 2080 or Theatre 2090 English 2350 English 3205 Visual Arts 2700	Fall Theatre 4010 or Theatre 4020 Theatre 4060 or Theatre 4070 Theatre 4080 or Theatre 4090 Theatre 4040 Theatre 4030
Winter Theatre 2011 or Theatre 2021 Theatre 2081 or Theatre 2091 English 2351 Dramatic Literature course Visual Arts 2701	Winter Theatre 4001 (Harlow Institute - 10 credit hours)

9.2 Bachelor of Fine Arts (Visual Arts)

The Bachelor of Fine Arts (Visual Arts) degree program is a professional program designed to educate and train the student in the history, theory and practice of the Visual Arts. Courses are offered in Drawing, Painting, Sculpture, Printmaking, Photography, Multi-media, Digital Imaging and Digital Multi-Media, and Art History. The curriculum is devised with the aim of producing well-rounded generalists with a solid grounding in all aspects of the Visual Arts. It illustrates the philosophy that artistic freedom and creative expression require both technical skill and intellectual vision, acquired through a disciplined application of effort and a critical awareness of artistic issues, past and present.

In addition to Studio and Art History courses, the student will take a number of appropriate academic courses from disciplines other than Visual Arts, chosen in consultation with the program chair. It is intended that academic courses be chosen which will enhance the Bachelor of Fine Arts (Visual Arts) program and provide, as far as possible, a broad exposure to the liberal arts. The first year of the program consists of intensive foundation of co-requisite courses in Drawing, Two-Dimensional Design and Three-Dimensional Design in preparation for Introductory studio courses in the second year and intermediate studio courses in the third year. In the fourth year, the 4950/4951 studio courses are conducted as tutorials, that is, students will work independently on projects and confer regularly with instructors.

It is recognized that students in the Bachelor of Fine Arts (Visual Arts) program must have occasional opportunities to view important works of art first-hand. Arrangements will therefore be made where possible for students to visit major art centres.

The Bachelor of Fine Arts (Visual Arts) program is rigorous and demanding and it is assumed that students will normally be enrolled for full-time study. A student who withdraws from a course may put his/her program in jeopardy or be unable to complete the degree in the normally allotted time. Where circumstances warrant, any prerequisite(s) or co-requisite(s) for Visual Arts courses may be waived by the Program Chair. Any Visual Arts regulations may be waived by the Committee on Undergraduate Studies upon request of the Program Chair.

9.2.1 Admission Requirements

9.2.1.1 Academic Requirements

Applicants must meet the general admission requirements of the University.

9.2.1.2 Portfolio Submission

In addition to meeting the general admission requirements of the University, all applicants will be required to submit a portfolio of previous art work and a completed Visual Arts application form before March 1st of the year in which entry is sought. Although it is assumed that applicants will have had no previous formal training in art, evidence of suitability for study in the visual arts is required. Instructions for the submission of portfolios will be provided by the Fine Arts Division upon request. Enrollment in the Bachelor of Fine Arts (Visual Arts) program is limited and selection is competitive.

9.2.1.3 Transfers From Other Universities/Colleges

See **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)**.

9.2.2 Academic Performance

- Attendance at all studio courses is considered vital to the program and will be required. It will be used as part of the evaluation.
- Students who fail a course in a studio discipline shall not take more advanced courses in that discipline until the failed course has been satisfactorily completed.
 - Students who fail any studio course will be required to repeat that course and obtain a grade of at least 65%.

3. A candidate whose average in Visual Arts courses falls below 65% in any semester will be placed on probation by the Visual Arts program.
4. A candidate will be required to withdraw from the program if:
 - a. The candidate's cumulative average in Visual Arts courses required for the program falls below 65%. OR
 - b. The candidate's average in Visual Arts courses falls below 65% in each of two consecutive semesters of enrolment in the program.
5. A candidate will be denied graduation if, at the end of the final semester of the Visual Arts Program:
 - a. The candidate's cumulative average in Visual Arts courses required for the program falls below 65%. OR
 - b. The candidate's term average in Visual Arts courses falls below 65% in each of his/her last two consecutive semesters of enrolment in the program.

A candidate denied graduation for either of these reasons will be permitted to register for Visual Arts courses without a waiting period and re-application, and is not bound by Regulation 8 (below).
6. Students who have voluntarily withdrawn from the Bachelor of Fine Arts (Visual Arts) program and wish to re-enter must re-apply in competition by March 1st for the upcoming Fall semester, or by August 30th for the upcoming Winter semester.
7. Students who have been required to withdraw from the Bachelor of Fine Arts (Visual Arts) program and wish to re-enter must re-apply in competition after a lapse of two semesters by March 1st for the upcoming academic year.
8. Candidates who have been required to withdraw twice from the Bachelor of Fine Arts (Visual Arts) program shall be ineligible for further admission.
9. Students denied promotion with a cumulative average below 60% in Visual Arts courses who are re-admitted to the program will normally be required to repeat all the Visual Arts courses of the term, including all the courses which have been passed (in a semester when the courses are normally offered).
10. Students denied promotion with a cumulative average of at least 60% in Visual Arts courses who are readmitted to the program will be required to repeat the failed Visual Arts courses only (in a semester when such courses are normally offered).

9.2.3 Degree Regulations

Visual Arts 1000 and 1001 and Visual Arts 2300 and 2301 are not accepted as credits towards the Bachelor of Fine Arts (Visual Arts) degree. One work of art done during the fourth year will be selected by the Visual Arts Program, in consultation with the student, and retained for the permanent collection of the Campus.

To be awarded the degree of Bachelor of Fine Arts (Visual Arts) a student shall successfully complete 120 credit hours as follows:

1. Six credit hours in English courses.
2. Eighteen credit hours in academic elective courses chosen from Disciplines other than Visual Arts.
3. Visual Arts 2700 and 2701 and an additional 18 credit hours in Art History
4. Visual Arts 1500 and 1501, Visual Arts 1510 and 1511, Visual Arts 1520 and 1521; Visual Arts 2000 and 2001.
5. Studio Courses

Forty-two credit hours in studio courses as follows:

- a. 18 credit hours at the 2000 level.
- b. 18 credit hours at the 3000 level.
- c. Six additional credit hours in studio electives at 2000 or 3000 level.

Students must normally complete Visual Arts 1500 and 1501, Visual Arts 1510 and 1511, Visual Arts 1520 and 1521 before advancing to any 2000 level studio course.

Studio courses are offered in the following subjects: Drawing, Two-dimensional design, Three-dimensional design, Painting, Sculpture, Printmaking, Printmedia, Photography and Multi-media, Digital Imaging and Digital Multi-media. Courses in a studio subject consist of six hours of practical work in a studio class each week. Assigned projects will require that considerable additional studio work be done outside scheduled class time. Students will supply their own art materials. Some courses may not be offered every year. Please consult with the Fine Arts Division prior to registration to confirm course offerings.

6. Visual Arts 4950 and 4951

Program Example:

Year 1 - Foundation Year

Drawing I and II (Visual Arts 1500 and 1501)
 Two-D Design I & II (Visual Arts 1510 and 1511)
 Three-D Design I & II (Visual Arts 1520 and 1521)
 Six credit hours in Art History Survey I, II (Visual Arts 2700 and 2701)
 Six credit hours in English

Year 2

Second Year Drawing I, II (2000/2001)
 Twelve additional credit hours in 2000 level Studio Courses
 Six credit hours in Art History Courses
 Six credit hours in Academic Electives to be chosen in consultation with the Academic Advisor

Year 3

Twelve credit hours in 3000 level Studio Courses
 Six credit hours in 2000 level Studio Courses
 Six credit hours in Art History Courses
 Six credit hours in Academic Electives to be chosen in consultation with the Academic Advisor

Year 4

Independent Projects in Studio I, II (4950/4951) 3 credit hours each
 Six credit hours in 3000 level Studio Courses
 Six credit hours in Art History Courses
 Six credit hours in Academic Electives to be chosen in consultation with the Academic Advisor

9.3 Minor Program - Fine Arts

Art History Minor

Visual Arts 2700 and 2701

18 credit hours in Art History at the 3000- or 4000-level

10 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Division.

Prerequisites may be waived by the Head/Program Chair of the course area in question.

Upon the recommendation of the appropriate Program Chair(s), any Major requirements may be waived by the Academic Studies Committee.

Some of the courses in this section of the Calendar are available only at Grenfell Campus. Students who choose to transfer from Grenfell Campus to the St. John's campus should see their faculty advisor to determine the extent to which such courses can be applied to their new program.

10.1 Anthropology

Anthropology 1030 and Anthropology 1031 or an equivalent course or courses are required of all students wishing to concentrate in anthropology.

The following courses, cross-listed with the Department of Sociology and identified by the prefix "S/A", are also taught at the introductory level: 2200, 2210, 2220, 2230, 2240, 2260, 2270, 2280, and 2350. These courses can be taken as first courses or may be taken following an Anthropology introductory course.

Anthropology courses are designated by ANTH.

1031 Introduction to Anthropology is a general introduction to Anthropology emphasizing different forms of society and culture. Cultures within and outside the Western tradition will be examined, ranging from small-scale to more complex pre-industrial societies.

CR: the former ANTH 1000 or 2000

2200 Communities (S/A 2200) is an interdisciplinary examination of the concept of Community. Readings will include community studies from North America and Europe.

2210 Communication and Culture (S/A 2210) is an examination of verbal and non-verbal systems of communication, and the influence of language on human cognition.

2230 Newfoundland Society and Culture (S/A 2230) (same as Folklore 2230) examines the Sociology and Anthropology of the Island of Newfoundland. The focus is on social and cultural aspects of contemporary island Newfoundland.

CR: Folklore 2230

2240 Canadian Society and Culture (S/A 2240) is a descriptive and analytic approach to the development of Canadian society and culture.

2260 War and Aggression (S/A 2260) is a critical review of ethological, psychological and sociological approaches to the understanding of violence and organized aggression.

2270 Families (S/A 2270) is a comparative and historical perspective on the family as a social institution, the range of variation in its structure and the determinants of its development.

2280 The City (S/A 2280) examines varieties of urban life around the world and through history. The city as habitat and as spectacle.

2300 Newfoundland Folklore (same as Folklore 2300) is a survey of the various types of Folklore: tale, song, rhyme, riddle, proverb, belief, custom, childlore and others, with stress on their function in the Newfoundland community culture. Individual collection and analysis of materials from the students' home communities, supplemented by data from the Memorial University of Newfoundland Folklore and Language Archive.

CR: the former Folklore 3420, Folklore 2300

PR: Folklore 1000 or Folklore 2000, or ANTH 1031

2350 Religious Institutions (S/A 2350) (same as Religious Studies 2350) is a comparative study of religious institutions and beliefs, calendrical feasts and solemnities, religious roles and hierarchies, ritual innovation and

revitalization.

CR: Religious Studies 2350

2410 Classics in Social and Cultural Anthropology is an examination of selected milestone monographs, ground-breaking studies for subdisciplinary specialties and major syntheses.

2411 Anthropologists in the Field base many of their ideas on experiences they have while living in other cultures. This course examines the human relationships through which anthropologists explore cultures and how in turn these relationships affect the anthropologists and the development of their discipline.

2412 Threatened Peoples is an examination of key social and cultural factors involved in the global extinction of small-scale societies; the intrusive influences that jeopardize small-scale societies, such as disease, economic and military incursion; the role of international non-governmental agencies in aid of threatened peoples; and the role of the anthropologist in this human crisis.

2413 Modern World Cultures is an examination of significant studies of 20th century populations and their implications for understanding the human condition.

2500 Folk Literature (same as Folklore 2500) is an examination of the major genres of folk literature: folk narrative, folk poetry and song, folk drama, and the traditional generic forms within folk speech. An introduction to the textual, comparative and contextual methods of analysis. The literature discussed will be international in scope.

CR: Folklore 2500, the former Folklore 3400, English 3400, Sociology/Anthropology 3400,

PR: Folklore 1000 or Folklore 2000, or ANTH 1031

3053 Anthropology of Religion is a critical evaluation of anthropological research on religion, centering on seminal thinkers and major theoretical traditions. Special attention is given to the study of belief systems, and to relationships between belief and ritual.

CR: Religious Studies 3053

3080 The Third World is an examination of the anthropology of the Third World. The course considers perspectives on peasantry, including such topics as underdevelopment, land reform, hunger, political and social movement.

3083 Cultural Crises and the Environment is an examination of social and cultural aspects of dilemmas in the use of renewable and non-renewable resources such as animals, arable land, forests, fisheries, air, water, fossil fuel, and nuclear energy. Special attention to Third World and marginal populations.

3140 Social Movements (S/A 3140) is an examination of social movements which challenge prevailing social institutions and cultural values. Social movements considered may include religious cults and sects, millenarian movements, attempts at utopian and communal living, feminism, labour and revolutionary movements.

3210 Persistence and Change in Rural Society (S/A 3210) assesses the social and cultural significance of the rural experience in the face of expanding urbanism. Topics may include (a) the nature of rural society in Canada, (b) similarities between Canadian and European rural society, (c) utopian and anarchist movements in rural life, and (d) reaction of agricultural populations to external influence.

3314 Gender and Society (S/A 3314) is an examination of biological, psychological, social and cultural aspects of gender, with an emphasis upon contemporary directions of change in sex roles.

3520 The Early Ethnohistory of North America's Native People (same as History 3520) explores the North American native response to early European contact and initial settlement. Particular attention will be paid to cultural change resulting from the adoption of European goods, participation in the fur trade, the introduction of European disease, and the adaptation to a permanent European presence.

CR: History 3520

3525 The Later Ethnohistory of North America's Native People (A/P) (same as History 3525) examines Indian and Inuit cultural history of the 18th and 19th centuries, including the fur trade, resistance and accommodation to European expansion, the emergence of revitalization movements, demographic changes, and population shifts. Special emphasis will be placed on the ethnohistory of the native peoples of what is now Canada and northern United States.

CR: History 3525

4071 Social and Cultural Aspects of Health and Illness (S/A 4071) covers topics which may include: cultural concepts of illness and health; theories of disease causation; relationships between social life and illness patterns; symbolic use of illness; variations in philosophies of treatment and in practitioner/patient relationships; the social organization of medicine. Open to those without normal prerequisites by permission of the Instructor.

4072 Social and Cultural Aspects of Death (S/A 4072) covers topics which may include: symbolic meanings and values attached to death; cultural and historical variations in the management of death, e.g. treatment of the 'terminally ill', burial rites, the mourning process, and the social fate of survivors, together with the social and psychological meanings of these behaviours. Open to those without normal prerequisites by permission of the Instructor.

4440 Music and Culture (S/C 4440) (same as Folklore 4440, Music 4040, the former Music 4440) explores traditional music as an aspect of human behaviour in Western and non-European cultures. Examination of the functions and uses of music; folk-popular-art music distinctions; and the relation of style to content. Outside reading, class exercises and individual reports will be required.

CR: Folklore 4440, Music 4040, the former Music 4440

10.2 Biochemistry

Biochemistry courses are designated by BIOC.

1430 Biochemistry for Nurses is an introduction to the chemistry and structure-function relationships of carbohydrates, lipids and proteins. Basic metabolism of carbohydrates and fats, with emphasis on the biochemical fluctuations that occur in human health and disease. A brief introduction to molecular genetics. This course may not be used for credit to fulfill the requirements for a major in the Department of Biochemistry. Entry into this course is restricted to students in the Bachelor of Nursing (Collaborative) Program. Prospective fast-track program students should consult with the School of Nursing concerning admission to this course.

CR: the former BIOC 2430

LC: 4

PR: Level 3 Chemistry or Chemistry 1010 or Chemistry 1810 or equivalent

10.3 Biology

Students may obtain credit for only 6 1000-level credit hours in Biology. Normally, these courses will be Biology 1001-1002, which are prerequisite to all higher courses in Biology, except where noted below.

Biology courses are designated by BIOL.

1001-1002 Principles of Biology is an introduction to the science of Biology, including a discussion of the unity, diversity and evolution of living organisms.

LH: 3

PR: BIOL 1001 is a prerequisite for BIOL 1002

2010 Biology of Plants is a study of the structure, function and reproductive Biology of plants, with emphasis on the vascular plants, and on their relationship to environment and human activities.

LC: 3

LH: 3

PR: BIOL 1001, BIOL 1002, and Chemistry 1001

2040 Modern Biology and Human Society I examines various aspects of the human body, and the implications of modern biological research for human beings. Topics include cancer; diet and nutrition and associated diseases; circulatory disease, immunity, human genetics, biorhythms, new diseases, genetic engineering and reproductive engineering.

UL: cannot be used towards the Minor, Major or Honours programs in Biology

2041 Modern Biology and Human Society II examines the origins and consequences of the environmental crisis of the 20th century. Topics include the population explosion, energy, material cycles, air and water and land pollution, global food supplies, the fisheries, wildlands, renewable and non-renewable resources, environmental ethics.

UL: cannot be used towards the Minor, Major or Honours programs in Biology

2122 Biology of Invertebrates is a study of the invertebrates with emphasis on structure and function, adaptations and life histories. The laboratories will present a broad survey of the major invertebrate groups.

CR: the former BIOL 3122

LH: 3

PR: BIOL 1001 and BIOL 1002

2210 Biology of Vertebrates is a study of the vertebrates, with emphasis on structure and function, adaptations and life histories.

CR: the former BIOL 3210

LH: 3

PR: BIOL 1002

2250 Principles of Genetics is an introduction to Mendelian and molecular genetics. Phenotype and genotype, behaviour of alleles in genetic crosses, chromosome theory of inheritance, genetic linkage, molecular Biology of DNA, RNA and protein, molecular basis of mutation, recombinant DNA, applications of genetic biotechnology.

CO: Chemistry 2440 or Chemistry 2400

CR: the former BIOL 3250

LH: 3

PR: Chemistry 2440 or Chemistry 2400, BIOL 1001 and 1002, Chemistry 1010, 1011 or 1050/1051

2600 Principles of Ecology is a conceptual course introducing the principles of ecology, including theoretical, functional and empirical approaches.

CR: the former BIOL 3600

LH: 3

PR: BIOL 1002

3053 Microbiology for Nurses is a course on the fundamentals of microbiology with an emphasis on medical microbiology. The course will include topics such as: host responses to infections, human diseases caused by microorganisms, and the control and exploitation of microorganisms. Entrance is restricted to Nursing students in the Bachelor of Nursing (Collaborative) program.

LH: 2

UL: cannot be used as one of the required courses for the Minor, Major, or Honours in Biology, nor is it acceptable for any of the joint programs between Biology and other disciplines

10.4 Business

Enrolment in some Business courses is limited and first priority will be given to students registered in Grenfell Campus's Business Administration programs and Memorial University of Newfoundland's Faculty of Business Administration programs.

10.4.1 Core Program Course Descriptions

1000 Introduction to Business in Society introduces the basics of business and business corporations in society, in a real-world relevant manner. Particular attention is given to societal stakeholders and to corporations' internal business processes and management functions. Major emphases include corporate social responsibilities and management ethics, and these are recurring themes in other topics such as technology, globalization and people in organizations. The course is a combination of textbook theory and guided learning activities and assignments based on finding and integrating real-world information.

CR: the former Business 2001

1101 Principles of Accounting (QRA) emphasize the concepts and issues of introductory financial accounting as they relate to the Canadian conceptual framework, and will also address the strengths and weaknesses of financial reporting at an introductory level. The student will be introduced to the accounting process and analysis of the balance sheet, income statement, and the statement of changes in financial position.

CR: the former Business 2100 and the former Business 3100

1210 Introduction to Marketing Strategy (W) introduces students to the concepts, analyses, and activities that comprise marketing strategy and provides practice in assessing and solving strategic problems in marketing. The course is also a foundation for Business 2210 Introduction to Marketing Tactics and for advanced electives in marketing. Topics include: marketing strategy, environmental analysis, competitive analysis, customer behaviour, marketing research, segmentation, targeting, and positioning.

CR: the former Business 1201 or 2201 or 3200, Tourism Studies 2201

PR: Business 1000, Economics 2010, Economics 2020, English 1110 or 1021

1600 Introduction to Entrepreneurship is an introductory course designed to give students a broad understanding of the field of entrepreneurship and the role that entrepreneurship plays in society. Topics will include the nature and theories of entrepreneurship, the characteristics and behaviours of entrepreneurs, and the entrepreneurial process in small and large firms. Students will get to think and act in a creative manner, obtain exposure to local entrepreneurs, assess their potential for entrepreneurial careers and develop attitudes and skills that will be useful in any organization. The course is also useful for those who will be dealing with smaller firms in the context of larger organizations and for those who will be working for entrepreneurs.

PR: Business 1000, and English 1110 or 1021

2010 Business Research and Writing (W) introduces students to research, writing, and reporting processes in business. Through ongoing, multi-stage evaluation, students learn the fundamentals of business research, including analytical thinking and proposal writing involving research using secondary sources. A key focus is the writing process, including grammar, punctuation,

structure, flow, and format in common business communications media. Students also develop their oral presentation competence by presenting the results of their research. A highly interactive design encourages student practice and participation.

CR: Business 2000

PR: Business 1000, and English 1110 or 1021

2101 Managerial Accounting (QRA) provides an overview of the use of financial data for managerial decision making. The student will be introduced to basic budgeting and analysis techniques for both service-oriented and manufacturing businesses.

CR: the former Business 4100

PR: Business 1101

2210 Introduction to Marketing Tactics (W) introduces students to the concepts, analyses, and activities that comprise marketing tactics and provides practice in making decisions about tactical problems in marketing. The course is also a foundation for advanced electives in marketing. Topics include: product management, pricing, marketing communications, channels of distribution, implementation, and budgeting.

CR: the former Business 1201 or 2201 or 3200, Tourism Studies 2201

PR: Business 1210, Mathematics 1000

2400 Decision Modeling (QRA) provides an introduction to: spreadsheet modeling; linear optimization and the related topics of integer, assignment, and transportation models; and decision analysis including payoff matrices, decision trees, and Bayesian revision. All topics will be taught within the context of business applications.

CO: Statistics 2500

CR: the former Business 4401

PR: Mathematics 1000

2700 Computing and Information Systems for Business serves to introduce computer applications in document processing, spreadsheet and database management, and basic web design and technology. Students will also examine the role of information systems and their design and management in supporting business decision making, and ethical issues surrounding technology in the workplace.

CR: Computer Science 1600, Computer Science 2650, Computer Science 2801

LH: 3

PR: Business 1000

UL: cannot be used as a Business elective in programs offered by the Faculty of Business Administration

3310 Organizational Behaviour (W) (formerly Business 2301 and 4300) focuses on the study of individual and group processes in formal organizations. The student is introduced to the nature of work, the systematic approach to the study of behaviour, organizational roles and socialization, motivation, leadership, communication, and group dynamics.

CR: the former Business 2301 and the former Business 4300

PR: English 1110 or 1021

3401 Operations Management (QRA) teaches fundamental concepts, methods, tools, and techniques to understand, analyze, and effectively manage as well as improve operations in business organizations. The course covers operations competitiveness and strategy, productivity, forecasting, capacity planning, material requirements planning, waiting lines analysis, project management, inventory management, quality control and its improvement, and supply chain management.

CR: the former Business 5400

PR: Statistics 2500, and Business 2400 or the former Business 2401

4000 Business Law I is a course dealing with the law relating to certain aspects of business activity; includes introductory material on the nature of law and legal processes, together with a detailed study of certain aspects of the law of contract, examination of the general principles of the law of agency as they affect business operations; introduction to selected topics in company and partnership law.

CR: the former Business 3000

4050 Strategic Management 1 introduces students to the strategic management approach. The course builds upon the knowledge and concepts developed in Business 1000 and prepares students for later business courses in their programs, especially Business 7000. Through experience and analysis in and of real or reality-based situations and issues, students will develop critical and integrative thinking and information literacy. Activity and action components of the strategic management process are the basis for student learning. The purpose of this course is to recognize the importance of situational analysis and strategy in the management process, including business functional and organizational integrative thinking, and decision-making regarding courses of action, resource allocation, and leadership.

CO: Business 4000 and Business 4330

PR: Business 1600, 2010, 2101, 2210, 2400, 3310, 3401

4320 Human Resource Management introduces the student to the design, operation and management of HRM processes, their evaluation, and their contribution to employee and organization effectiveness. The principal processes considered are staffing, development, employment relations, and

compensation. Consideration of the influence of relevant organizational and external conditions on HRM is included. The course views the management of human resources as the joint responsibility of line and HRM managers.

PR: Business 3310 or the former Business 2301

4330 Introduction to Labour Relations (formerly Business 3320) provides an introduction to the field of industrial and labour relations in Canada, with primary emphasis on the labour-management relationship. Students will be introduced to the basic elements of an industrial relations system, including the participants, their roles and relationships, the social economic, legal and political environment in which the participants interact, and the process and outcomes of collective bargaining. Students may be exposed to various role playing exercises that are applicable to industrial and labour relations.

CR: the former Business 3320

PR: English 1021 or English 1110

4500 Financial Management I (QRA) is designed to introduce the student to the role of financial management in business, financial analysis techniques, working capital management, and long-term and short-term financing.

CR: the former Business 4110

PR: Business 1101, Economics 2010 and Statistics 2500

5301 Organizational Theory focuses on the organization, its environment, and its subsystems. From providing a basic appreciation of the role and practice of research in organizations, study extends to measures of organizational effectiveness, determinants of structure and design, power and politics, intergroup conflicts and conflict resolution, and organizational development and change.

CR: the former Business 5300

PR: Business 3310 or the former Business 2301

7000 Strategic Management 2 (W) emphasizes concepts of strategic management and strategy in various contexts and situations covering corporations and businesses, and other institutions or organizations and their purposeful activities. Through in-depth analysis of reality-based situations and strategic issues, students will develop their contextual and situational orientation, and further develop their applied, investigative critical thinking and information search skills. Further, students will be expected to develop an applied ability in the contextual and situational analysis of corporation/businesses and institutions/purposeful activities, and in corresponding strategy formulation and planning for strategy implementation. Students learning activities may be based on published simulation exercises, decision-making and group dynamics exercises, business simulation exercises, and information search projects. Learning outcomes also may include research and information search methodologies and information literacy, and good writing.

PR: Business 4050, 4320, 4500, and 5301

7010 Business and Society (W) examines the inter-relationships among business, government, society and the environment. Topics include: the social-economic business system, business ideologies, social responsibilities of business, business ethics, stakeholder and issues management, and selected current issues in business.

PR: restricted to Bachelor of Business Administration students who have completed at least 90 credit hours, or permission of the Chair of Business

10.4.2 Business Electives

All existing business courses at Memorial University of Newfoundland that are not included in the Grenfell Campus B.B.A. core will be considered business electives. When choosing electives, students must ensure that they satisfy requirements for one of the concentrations listed under **The Curriculum**, 3.

2000 Business Communications (W) focuses on the development of written and oral communication skills in the workplace. The common communications media are reviewed with emphasis on electronic and written correspondence. Students learn how to prepare comprehensive analytical reports including proposal writing. Attention is also given to building confidence in delivering oral presentations and preparing appropriate employment packages. A highly interactive design encourages student practice and participation.

CR: Business 2010

UL: may not be used to fulfill any of the requirements of any of the programs of the Faculty of Business Administration, including the minor, diploma and degrees

2808 Business Ethics (W) examines the implications of business conduct using ethics as a framework, and will provide the tools to anticipate, critically analyse, appropriately respond to, and provide personal and professional leadership regarding critical ethical issues that will arise both during professional and personal careers.

3101 Accounting Applications (QRA) continues the study of accounting on a more in-depth and detailed basis. Building on the theory and concepts of Business 1101 and 2101, Business 3101 will emphasize the procedures

and techniques required for the preparation and presentation of accounting information and general purposes financial statements.

CR: the former Business 2100 or the former Business 3100
PR: Business 1101

3210 Consumer Behaviour deals with concepts related to factors with influence the purchase and consumption behaviour of individuals including culture, social class, reference groups, perception, learning motivation, personality and lifestyle. The unique aspects of groups and organizational buyers will also be examined.

CR: the former 5200
PR: Business 2010 and Business 2210 or the former Business 2201, or the former Business 3200.

3350 Principles of Leadership will build on the concepts introduced in Organizational Behaviour, providing students the opportunity to explore various theories of leadership and styles, and to evaluate their own personal leadership profiles. Students will examine motivation and coaching, strategic leadership and change management, among other topics.

PR: Business 3310 or the former Business 2301

4010 Government Policy and Economic Development examines the integration of Government policy, scientific understanding, local knowledge and social and economic principles for sustainable economic development. Students will explore experiences with various institutions, regulations and policy instruments in dealing with economic development, both theoretically and in a number of case studies.

PR: Business 1000, Economics 2010 and Economics 2020

4020 Research and Economic Analysis will examine the interpretation and analysis of research tools and methods commonly utilized in assessing the impact of economic development in the context of local government, business, social and cultural, and institutional environments.

PR: the former Business 2401, Business 4500, Economics 2010, and Economics 2020

5000 Business Law II is designed to show the student how principles of Law are applied to four areas of Business. The areas dealt with in this course are accounting/finance, marketing, personnel and production.

PR: Business 4000

5010 International Development addresses present critical issues in international development such as sources of national and international economic development, causes of poverty, the role of international trade and financial aid, foreign debt problems, the role of the government and its policies, and globalization. Through lectures, class discussions and project writing it aims to develop the students' knowledge of different theories of development and their ability to identify and analyse the major economic problems, as well as to think critically and to find solutions.

PR: Economics 2010, Economics 2020, Mathematics 1000, and Statistics 2500

5210 Marketing Communications provides a theoretical background on the nature, role and principles of marketing communications; and develops analytical and decision-making skills in planning, executing, evaluating and controlling marketing communications campaigns.

CR: the former Business 6210
PR: Business 2010, Business 2210 or the former Business 2201, or the former Business 3200

5220 Marketing Research (W) is designed to acquaint the student with the use of marketing research as an aid to management. This is a comprehensive survey of the scope and methods of marketing research.

CR: the former Business 6200
PR: Statistics 2500, Business 2010, and Business 2210 or the former 2201, or the former 3200

5302 International Business is designed to introduce students to the issues of international business: these are the processes of cultural confrontation and compromise; the problems of competitive sovereignty involving multinational corporations and the governments of host societies; the organization, structure, operation and control of diverse international businesses; and, finally, the role of multinational enterprise as a catalyst in economic development and resources employment, in particular, the North-South context. The relevance of international business as an area of study to the Canadian economy is discussed. The course is both conceptual and empirical in content.

CR: the former BUSI 7302
PR: Business 1000 and Economics 2010 and 2020

5500 Financial Management II (QRA) (formerly Business 5140 and Business 7140) is an extension of Business 4500. Capital investment decision-making using discounted cash flow methodology; investments under certainty, financial structure and leverage; analysis of money and capital markets; further examination of long-term external financing.

CR: the former Business 5140, the former Business 7140
PR: Business 4500 or the former Business 4110

5530 Public Finance recognizes the large role played by government in our society. Sources and uses of government funds at the federal, provincial and

local levels will be covered. Intergovernmental fiscal problems will be examined with special emphasis on various incentive programs available to business from the three levels of government.

CR: the former Business 5100
PR: Economics 2010 and Economics 2020

5600 New Venture Creation (formerly Business 5030 and Business 7030) covers the business creation process from the idea conception stage to the launch stage. Students learn how to search for, screen and evaluate opportunities, and to plan and assemble the required resources, including the preparation of an actual business plan. Alternatives to new venture creation, such as purchasing an existing business and purchasing a franchise, are also explored. Extensive group work is required.

CR: the former Business 5030, the former Business 7030
PR: Business 1101, Business 1600, and Business 2210

6040 International Business Law develops the skills a business student must have in understanding the laws and regulations that exist and relate to international business decision making. The course will equip students with a knowledge and understanding of laws and regulations that currently prevail in international business operations.

PR: Business 4000

6120 Taxation I is a determination of income tax liability of individuals and corporations, and a survey of sales taxes.

PR: Business 1101 or the former Business 3100, and Business 4000

6500 Family Business, Franchising, and Buying an Enterprise (W) examines various forms of business ventures and the recognition and treatment of associated risks. Emphasis is on the critical importance of the entrepreneur, the demands and the risks faced as well as the rewards and satisfactions to be expected from family-run business, franchising, and enterprise takeover.

PR: Business 1101, Business 1600, and Business 2210

6510 Investments is a study of investment securities, risks, markets and mechanics; an appraisal of the economy, the industry and the firm; and portfolio management for personal and institutional investments.

CR: the former Business 6140
PR: Business 4500 or the former Business 4110

6600 Managing Growth in the Small Firm is designed to introduce the student to the challenges and opportunities of managing small growing businesses. The focus will be on functional issues and solutions within the context of growth oriented small firms. In addition, the course will explore strategic planning in the owner-managed business and strategies for growth and expansion. Extensive use will be made of cases and examples from Atlantic Canada.

CR: the former Business 6030
PR: Business 5600

6610 Small Enterprise and Regional Development (formerly Business 6009 and Business 7031) explores the potential and constraints on efforts to foster small enterprise formation and expansion as a means to promote regional economic development. It critically examines government initiatives to promote small business as the panacea for depressed regional economies, and reviews changes in the global economy and the organization of production which may enhance small business competitiveness. Both Canadian and international cases are studied, with theoretical and empirical findings related to the Newfoundland context.

CR: the former Business 6009 and the former Business 7031

6800 Current Topics in Rural Economic Development (W) focuses on case studies of rewards and challenges inherent in rural economic development. Potential areas of consideration would include economic, environmental, political, and socio-cultural impacts of economic development.

PR: successful completion of at least 60 credit hours

7025 Management Decision Making (W) is a case-based course that takes a critical look at the decision-making process and examines the complexities of the business environment that affect both the effectiveness and efficiency of decision making, including environmental uncertainty, and competing stakeholder interests. Through case analysis, students will have an opportunity to evaluate and practice both qualitative and quantitative managerial decision making skills as they apply to areas such as marketing, human resources, production and operations, and business planning. Topics to be covered may include: decision theory, evaluating risk and uncertainty, game theory, and creative problem solving.

CR: the former Business 4401, the former Business 3400
PR: restricted to Bachelor of Business Administration students who have completed at least 75 credit hours
UL: cannot be used to satisfy the requirement of the former Business 4401 in any program

7050 Current Topics in Business (W) includes current topics in contemporary business thinking will be examined and evaluated in a seminar format. Seminars will be presented by faculty, students, and guest speakers.

PR: restricted to B.B.A. students who have completed at least 90 credit

hours, or students who have permission of the Chair of Business

7600 Current Topics in Entrepreneurship (W) endeavours to address recent research findings in various aspects of entrepreneurship. Students will have the opportunity to pursue issues in entrepreneurship development covering a wide range of topics using publications, journals and conference proceedings.

CR: the former Business 7032
PR: Business 5600

7610 Regulatory and Taxation Issues for Small Business is designed to provide students with a general knowledge base of the various tax and other regulatory issues that should be considered in starting a business. The role that tax plays in decision making will be examined as well as the types of corporate funding to establish a new business through government grants, conventional loans and tax credits as provided under the Income Tax Act. Alternative corporate structures will be examined as well as aspects of employee compensation and business valuations. Practical aspects of starting your own business, such as registration requirements, will also be examined.

PR: Business 6120

10.5 Chemistry

Attendance for all Chemistry Laboratory sessions is mandatory. Failure to attend may result in a failing grade or deregistration from the course.

Students are strongly advised to complete the Chemistry sequence appropriate to their stream (Chemistry 1200/1001 or 1010/1011 or 1011/1031 or 1050/1051) on the campus they first attend prior to transfer to another campus. Consult the credit restrictions listed under the St. John's Campus Department of Chemistry section of the University Calendar.

Chemistry courses are designated by CHEM.

1001 General Chemistry II is rates of reaction, chemical equilibria, thermodynamics, and introduction to organic chemistry.

AR: attendance is required
CR: credit may be obtained for only one of the following pairs of courses:
CHEM 1000 and CHEM 1001; CHEM 1200 and CHEM 1001
LC: 4 including tutorials
LH: 3
PR: CHEM 1200 or equivalent

1200 General Chemistry I is atomic structure and bonding, stoichiometry, reactions in aqueous solutions, gases, energetics of chemical reactions, the periodic table, chemical bonding and molecular geometry, intermolecular forces. This introductory course is intended for students who have a knowledge of high school chemistry. This course is offered at Grenfell Campus only.

AR: attendance is required
CO: credit may be obtained for only one of the following pairs of courses:
CHEM 1000 and CHEM 1001; CHEM 1200 and CHEM 1001
LC: 4
LH: 3

1810 Elements of Chemistry is matter, scientific measurement, atomic theory, the periodic table, chemical compounds and elementary bonding theory, the mole, chemical reactions, the chemistry of selected elements, gases, solutions, stoichiometry. This course is specifically intended for those who have no background in chemistry. This course is offered at Grenfell Campus only.

AR: attendance is required
CR: the former CHEM 1800
LC: 4
LH: 3
UL: may not be used as one of the Chemistry courses required for a B.Sc. Degree with a Specialization in Environmental Science at Grenfell Campus, nor for a Major or Honours in Chemistry, nor towards fulfilment of the 78 credit hours in science courses required for the B.Sc. degree on the St. John's campus.

1900 Chemistry in Everyday Life is a course that shows the relevance of chemistry in our daily lives. Following an introduction to atomic structure and chemical bonding, the course will focus on some of the following topics: organic chemistry and fuels; redox processes and batteries; acids, bases, and household cleaners; phases and detergents; the chemical components of foods; polymers and plastics; toiletries, and pharmaceuticals.

UL: may not be used as one of the required courses towards a Minor, Major, or Honours in any science degree program

2210 Introductory Inorganic Chemistry is structural chemistry of the solid state. Introduction to molecular orbital and crystal field theories. Chemistry of the s, p, and d block elements.

AR: attendance is required
LH: 3
PR: CHEM 1001 (or CHEM 1031 or CHEM 1051), Mathematics 1000

2300 Introductory Physical Chemistry is introductory chemical thermodynamics and equilibria. Complementary laboratory work with an emphasis on quantitative analysis.

AR: attendance is required
CR: CHEM 2301
LH: 3
PR: CHEM 1001 (or CHEM 1031 or CHEM 1051), Mathematics 1001, Physics 1051 (or Physics 1021)

2400 Introductory Organic Chemistry I (F) is bonding involving carbon; conformations and stereochemistry; introduction to functional groups and nomenclature; properties, syntheses and re-actions of hydrocarbons, alkyl halides and alcohols.

AR: attendance is required
CR: the former CHEM 2420, CHEM 2440, the former CHEM 240A/B
LH: 3
PR: CHEM 1051 or CHEM 1031; or CHEM 1010 and CHEM 1011 with a grade of at least 80% in each; or CHEM 1011 with a grade of at least 85%; or CHEM 1001 with a grade of at least 65%

2401 Introductory Organic Chemistry II (W) is an introduction to the interpretation of infrared, H and C-13 NMR spectroscopy; properties, syntheses and reactions of ethers, simple aromatic compounds, ketones, aldehydes, amines, carboxylic acids and their derivatives, aldol and related reactions.

AR: attendance is required
CR: the former CHEM 2420, CHEM 2440, the former CHEM 240A/B
LH: 3
PR: CHEM 2400

2440 Organic Chemistry for Biologists is an introduction to the principles of organic chemistry with an emphasis on material relevant to biological molecules. The laboratory will introduce techniques and illustrate concepts covered in the course.

AR: attendance is required
CR: CHEM 2400, the former CHEM 2420, the former CHEM 240A/B.
LH: 3
PR: CHEM 1011 (or CHEM 1001 or CHEM 1051)
UL: is designed primarily for Biology Majors and may not be used for credit by Chemistry or Biochemistry Majors and may not serve as a prerequisite for any other Chemistry course.

10.6 Classics

Classics courses are designated by CLAS.

1120 and 1121 Elementary Latin is an introduction to the grammar and syntax of Latin, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

CR: the former CLAS 120A and 120B
PR: CLAS 1120 is the prerequisite for CLAS 1121

1130 and 1131 Elementary Ancient Greek is an introduction to the grammar and syntax of ancient Greek, with particular attention paid to the acquisition of basic skills in reading, composition, and aural comprehension.

CR: the former CLAS 130A and 130B
PR: CLAS 1130 is the prerequisite for CLAS 1131

1100 Introduction to Greek Civilization is a general illustrated survey of the origins and evolution of Ancient Greek Civilization. The course introduces the student to Greek social and political institutions, religion and myth, and achievements in art, philosophy, science and literature, as well as the influence of Ancient Greece on the modern world.

CR: the former CLAS 1000, the former CLAS 2000

1200 Introduction to Roman Civilization is a general illustrated survey of the origins and evolution of Ancient Rome. The course introduces the student to social, political, and legal institutions, the growth of the Roman Empire, Roman art, literature, and religions, as well as Rome's pervasive influence in the modern world.

CR: the former CLAS 1000, the former CLAS 1101, the former CLAS 2001

2010 Greek Art and Architecture is an introduction, through illustrated lectures, to the study of the art and architecture of Ancient Greece.

CR: the former CLAS 3100, the former CLAS 3101

2015 Roman Art and Architecture is an introduction, through illustrated lectures, to the study of the art and architecture of Ancient Rome.

CR: the former CLAS 3100, the former CLAS 3102.

2020 History of the Hellenistic World (same as History 2034) is a survey of the history of the Mediterranean world and the Near East from the death of Alexander the Great in 323 BC until the incorporation of the Kingdom of Egypt in the Roman Empire in 30 BC. Particular attention is given to the influence of the new monarchies on political, social and cultural developments in both Greek and non-Greek communities.

2035 History of Classical Greece (same as History 2035) is a survey of Greek History from the Bronze Age to the death of Alexander the Great, with special reference to the social and political institutions of the fifth century,

B.C.

CR: History 2035, the former CLAS/History 3910, the former CLAS/History 2030

2040 History of Rome (same as History 2040) is a survey of Roman History from the early monarchy to the reign of Constantine with special reference to society and politics in the late Republic and early Empire.

CR: History 2040, the former CLAS/History 3920

2055 Women in Greece and Rome is an examination of the role of women in ancient Greece and Rome from the perspectives of religion, literature, art, society, and politics. Critical assessments of the scholarship and methodologies (including feminist methodologies) relevant to this topic will be included.

2701 History of Ancient Philosophy (same as Philosophy 2701) is a survey of the origin and development of Western philosophy among the Greeks and Romans.

CR: Philosophy 2701

2800 Classical Drama I - inactive course.

2801 Classical Drama II - inactive course.

3010 Greek Religion (same as Religious Studies 3010) is a study of the role of religion in the private and public life of the Greek world.

CR: Religious Studies 3010, the former CLAS/Religious Studies 3121

3020 Roman Religion (same as Religious Studies 3020) is study of the role of religion in the private and public life of the Roman world.

CR: the former CLAS/Religious Studies 3121, Religious Studies 3020

3090 Alexander and the Macedonians investigates the impact of the conquests of Alexander the Great and his Macedonian Successors on the political, social, cultural, intellectual, and religious world of the Mediterranean and Near East between Alexander's accession in 336 and the battle of Ipsus in 301, when his vast empire was carved into Hellenistic kingdoms.

CR: History 3090

3110 Greek Literature in Translation - inactive course.

3111 Latin Literature in Translation - inactive course.

3130 Greek and Roman Mythology (same as Folklore 3130) is a comparative study of the major myths of Greece and Rome as embodied in the literary and artistic remains of the ancient world with reference to their origins and their influence on later art and literature.

CR: Folklore 3130

3405 Tragic Drama in Greece and Rome is a detailed examination of the tragic dramas of ancient Greece and Rome. A selection of plays by Aeschylus, Sophocles, Euripides and Seneca will be read in English translation. Topics to be discussed include the development of ancient tragedy, its literary, performative and thematic traditions, its representation of social and historical conditions, and its influence on later tragic drama.

CR: the former Classics 2805

3415 Epic Poetry in Greece and Rome offers a detailed and in-depth study of the epic poetry of ancient Greece and Rome. The course will examine the poems of Homer, Apollonius of Rhodes and Virgil in English translation. Instructors may include additional poems. Topics to be discussed include the development of epic poetry, its literary traditions and its role in Greek and Roman society.

CR: the former CLAS 2060

3700 The Ancient World in Film examines the representation of the history and cultures of the ancient world in film. A selection of films will be studied and extensive reference will be made to the ancient evidence which informs them. The ancient world's impact on modern Western society will be considered together with the film industry's recasting of the ancient world in response to modern social and historical developments.

4000 Seminar in Greek History and Society will have the topics to be studied announced.

4010 Seminar in Roman History and Society will have the topics to be studied announced.

4020 Seminar in Greek Literature and Culture will have the topics to be studied announced.

4030 Seminar in Roman Literature and Culture will have the topics to be studied announced.

10.7 Computer Science

Computer Science courses are designated by COMP.

1600 Basic Computing and Information Technology (F and W) offers an overview of computers and information technology. It provides students with the knowledge necessary to answer questions, such as: What is a computer

system? How does it work? How is it used? This is done through the use of popular spreadsheet, word processing and database software packages and the Internet. Social issues and implications will also be included.

CR: COMP 2650, COMP 2801

LH: 3

PR: Level III Advanced Mathematics or Mathematics 1090, which can be taken concurrently

1700 Introduction to Computer Science (F and W) lays the foundation for the art and the science of computing. The course contains fundamental and topical issues in computers, languages, programming and applications. This course is designed for potential Computer Science majors without a background in programming, but is also available for non majors.

CO: Mathematics 1090 (or equivalent), or Mathematics 1000

LH: 3

PR: Mathematics 1090 (or equivalent), or Mathematics 1000

10.8 Earth Sciences

Earth Sciences courses are designated by EASC.

1000 Earth Systems is a survey of the structure, function and interrelations of Earth's lithosphere, hydrosphere, atmosphere and biosphere. Topics include an exploration of the physical and chemical properties of planetary materials, forces driving and sustaining Earth systems, and biological modifiers (including humankind) on the Earth today.

LH: 3

1001 Evolution of Earth Systems - inactive course.

1002 Concepts and Methods in Earth Sciences is an introduction to a broad range of concepts concerning the development of the geological record and the Earth; practical methods for collection of field based data; topics in map interpretation and geometric analysis, stratigraphy, paleontology, structure and petrology. The course is presented with an emphasis on the development of practical skills needed to pursue a career in Earth Sciences.

LH: 3

PR: EASC 1000

2150 The Solar System describes the basic astronomy of the Solar System, tracing the search to understand motion of the Sun, Moon and planets in the sky; modern observations of planets, moons, comets, asteroids and meteorites and what they tell us about the origin and evolution of the Solar System. This course is designed for students taking Earth Sciences as an elective.

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Earth Sciences

3811 Paleontology (W) is an outline of the major changes in life forms from Archaean times through the Phanerozoic to the present day, including details of invertebrate and vertebrate faunas and major floral groups; mechanisms and effects of mega- and microevolution in the fossil record; Biology and classification of organisms and summaries of their geological significance in biostratigraphy, paleoecology and rock-building; relationships between major cycles of evolution and extinction to global processes. This course has a laboratory component.

CR: Biology 3811, the former EASC 3801, the former Biology 3800

LH: 3

PR: either Biology 2120 (or Biology 1001 and Biology 1002) and EASC 1002; or Biology 2122 and Biology 2210

10.9 Economics

Economics courses are designated by ECON.

2010 Introduction to Microeconomics I examines scarcity and opportunity cost. Demand and supply. Elasticity. Household demand: marginal utility. Household demand: indifference curves. Production functions. Short-run and long-run cost functions. Perfect competition in the short run and the long run. Monopoly.

2020 Introduction to Macroeconomics covers national income accounting, aggregate income analysis, money, banking and foreign trade.

2550 Economic Statistics and Data Analysis is an analysis of economic statistics and the use of economic data. A course designed to introduce students to the task of economic data collection, description and analysis. Emphasis will be on interpretation and analysis of data using computer software programs.

PR: ECON 2010, ECON 2020, and Statistics 2500 or equivalent.

3000 Intermediate Micro Theory I is the basic microeconomic theory course; consumer demand, indifference curve analysis, theory of production and cost, factor substitution, and the theory of the firm under perfect competition and monopoly.

PR: ECON 2010 and ECON 2020

3001 Intermediate Micro Theory II is a continuation of basic

microeconomic theory; the theory of imperfect competition, theory of factor pricing under various market structures, general equilibrium and welfare economics.

PR: ECON 3000

3010 Intermediate Macro Theory I is aggregate analysis including consumer, investment, government and international sectors, the role of money, determinants of aggregate supply, and the effects of autonomous behavioural changes and fiscal and monetary policies on unemployment, price levels and the balance of payments.

PR: ECON 2010 and ECON 2020

3011 Intermediate Macro Theory II is a consideration of modern theories of macroeconomics, dynamics, empirical evidence and simulation of the national economy. Emphasis on the availability and effectiveness of government policy instruments.

PR: ECON 3010

3030 International Economics: Issues and Problems in a Canadian Context is an intermediate course in international economics. The course covers the theory of comparative advantage, the structure and policy issues of the Canadian balance of payments, the foreign exchange market and the institutional aspects of international commerce.

PR: ECON 2010 and ECON 2020

3050 Economic Forecasting: Methods and Applications aims to present the statistical techniques that are useful for preparing individual business forecasts and long-term business plans by focusing on the application of techniques used by managers in the decision-making process. It involves exploring data patterns, data mining, linear regression, time series, and managing forecasting processes. Knowledge of the basic operations of spreadsheets is recommended.

PR: ECON 2550

3080 Natural Resource and Environmental Economics is application of economic analysis to renewable and nonrenewable natural resource industries such as the fishery, forestry, and mining. Emphasis is given to the criteria for optimal resource use under various market structures and their implications for public policy. Issues of environmental resource management and pollution control will also be covered.

PR: ECON 2010 and ECON 2020

3085 Issues in Ecological Economics aims to explore the dynamic interaction between the economic system and the ecological system that sustains it by using trans-disciplinary theoretical approaches and methodologies. The main focus of this course will be on Ecological Economics concepts such as low and high entropy, biotic and abiotic goods and services, stock-flow resources, carrying capacity, throughput, co-evolution, sustainable scale, use value, and their applications in a problem-solving context.

CO: ECON 2010 and ECON 2020

CR: Environmental Studies 3085, Environmental Studies 4020, and the former Environmental Studies 3010

PR: ECON 2010 and ECON 2020

3150 Money and Banking examines the operation of the money and banking system, with special emphasis on Canadian problems. Monetary theory will be treated in relation to income theory and foreign trade.

PR: ECON 2010 and ECON 2020

3550 Mathematical Economics I examines linear algebra and differential calculus, with applications to economics.

PR: Mathematics 1000 or equivalent with a "B" standing, or Mathematics 2050 and ECON 2010 and ECON 2020

3551 Mathematical Economics II covers integral calculus, difference and differential equations, with applications to Economics.

PR: ECON 3550

4550 Econometrics I covers estimation of the general linear regression model with emphasis on fundamental theory and examples from published empirical research.

PR: ECON 2550, 3000 and 3010.

4551 Econometrics II covers further problems in econometric theory and technique; multicollinearity, autocorrelation, nonlinear estimation, and the identification and estimation of systems of equations. Published empirical research will be discussed and each student will be expected to perform an original empirical study.

PR: ECON 4550

10.10 English Language and Literature

One of English 1000, 1050, the former 1100 and one of English 1001, 1051, 1110 are prerequisites for all other courses.

A student cannot receive credit for more than one of English 1000, 1050, 1080, the former 1100 or for more than one of 1001, 1051, 1101, 1102, 1103, and 1110.

A student cannot receive credit for more than one of English 1020, 1030 or 1110.

A student cannot receive credit for more than 6 credit hours at the first year level. This includes unspecified transfer credits.

No students shall register in any course having an initial digit "3" unless they have successfully completed at least 6 credit hours in courses having an initial digit "2".

No students shall register in any course having an initial digit "4" unless they have successfully completed at least 6 credit hours in courses having an initial digit "3".

10.10.1 English Core Courses

1000 Introduction to English I is an introduction to English literature and to the use of the English language with a particular emphasis on composition.

1001 Introduction to English II is a continuation of the studies begun in English 1000.

PR: English 1000, English 1050, the former English 1100

1110 Comprehension, Writing and Prose Style is an introduction to the analysis of prose and to writing for various purposes, including exposition.

CR: English 1020, English 1030, English 2010,

PR: English 1000, English 1050, English 1080, the former English 1100

2005 Literary Survey I (The beginnings to 1660) introduces students to the major writers by detailed study of selected texts. The course will include such authors as Chaucer, Mallory, Shakespeare, Spenser, Bacon, Webster, Donne and works such as Beowulf, the Old English Elegies and Gawaine and the Green Knight. Recommended for English specialization students that English 2005 be taken first in the English 2005-2006-2007 sequence.

CR: English 2000, English 2110

2006 Literary Survey II (1660-1837) introduces students to the major writers by detailed study of selected texts. The course will include such authors as Dryden, Pope, Swift, Johnson, Fielding, Blake, Wordsworth, Austen, Byron, Keats and Shelley. Recommended for English specialization students that English 2006 be taken second in the 2005-2006-2007 sequence.

2007 Literary Survey III (1837 to the present) introduces students to the major writers by detailed study of selected texts. The course will include such authors as Tennyson, Browning, Arnold, Hardy, George Eliot, Dickens, Yeats, T.S. Eliot and Dylan Thomas. Recommended for English specialization students that English 2007 be taken third in the English 2005-2006-2007 sequence.

CR: English 2001, English 2111

3205 Shakespeare Survey is a study of at least eight plays, two from each dramatic mode: comedy, history, tragedy, and romance.

PR: Two second-year English courses

UL: credit may be obtained for only two of English 3200, English 3201, English 3205, and English 3206

3206 Shakespeare and the Classical Tradition is a study of the relationship between Shakespeare and his major classical sources, with a particular focus on the use of classical literature in the Renaissance.

PR: Two second-year English courses

UL: credit may be obtained for only two of English 3200, English 3201, English 3205, and English 3206

3395 The Literary Uses of English from the Earliest Times to the Present is an exploration of the development of the English language, as evidenced by its literary uses.

CR: English 2401

4105 Critical Approaches and Theory is a survey of critical approaches to English Literature, particularly those adopted by twentieth century readers. The course will attempt to give an account of the theories on which these approaches are based and some attention will be paid to the application of different approaches to specific works of literature.

CR: English 4101

4950 Individual Project in English is an individual project of a creative, or a critical, or a research character on a topic which is subject to the approval of the Program Chair. The topic will be prepared under the supervision of a designated faculty member or members.

CR: English 4990

10.10.2 Dramatic Literature

2350 Introduction to Drama I is a survey of the major plays in the history of western drama from the Greeks to the end of the eighteenth century.

CR: English 2350

2351 Introduction to Drama II is a survey of the major plays in the history of western drama from the 19th Century to the present.

CR: English 2002

3021 English Drama to 1580 is a study of the development of English drama from the Middle Ages to 1580. The course may also consider the popular arts, such as folk plays and mummery.

3171 Anglo-Irish Drama is a study of representative Anglo-Irish drama by such authors as Wilde, Shaw, Yeats, Synge, Lady Gregory, O'Casey, Behan, Friel and Molloy.
CR: English 3170, English 3180

3181 Drama of the Restoration and Eighteenth Century is a study of major dramatic texts from 1660 to the end of the eighteenth century.

3275 Modern Drama (1830-1930) is a study of western drama and performance during the period 1830-1930, with a focus on theatrical and dramatic texts and movements, as well as artistic, social, political, technological, and philosophical influences.
CR: the former English 3300, English 4300

4302 Contemporary British Drama is a study of representative dramatic works of contemporary British drama.

4305 Contemporary Drama is a study of modern and post-modern western drama and performance from 1930 to the present, with a focus on theatrical and dramatic texts and movements, as well as artistic, social, political, technological and philosophical influences. Recommended previous course: English 3275.
CR: English 4301, the former English 3301

4307 Contemporary Canadian Drama is a study of contemporary drama and performance in Canada, focussing on texts representative of Canada's cultural and regional diversity.
CR: English 3156

4308 20th Century American Drama - inactive course.

4317 Elizabethan-Jacobean Drama is a survey of Shakespeare's dramatic rivals and the Elizabethan and Jacobean repertoires.
CR: English 3022
PR: English 3200 or English 3201

4836-4844 Special Topics in Drama is supervised study in specialized areas of dramatic literature. Course topic, design, and requirements to be determined through consultation by the student with the instructor.
PR: permission of the instructor

10.10.3 Canadian Literature

2146 Canadian Prose after 1949 is a study of the outstanding works of Canadian prose from 1949 to the present.
CR: English 2150, English 2151, the former English 3146
PR: two first-year English courses

2155 Newfoundland Literature is a study of Newfoundland literature with emphasis on representative writers since 1949.
CR: English 3155

2156 Canadian Short Stories is a study of Canadian short stories which aims to give the student a heightened appreciation of individual short stories, and some sense of the range of Canadian accomplishment in the genre.

3145 Canadian Fiction to 1949 is a study of outstanding works of Canadian fiction from the beginnings to 1949.

3147 Canadian Poetry to 1949 is a study of representative Canadian poetry from the pre-confederation period to 1949.

3148 Canadian Poetry After 1949 is a study of Canadian poetry from 1949 to the present, with emphasis on the work of major poets and an examination of the various styles and theories of poetry developed during the period.
CR: English 4850

3149 Canadian Prose is a study of selected works of Canadian prose, covering both fiction and non-fiction.

4307 Contemporary Canadian Drama course description can be found in the dramatic literature list above.
CR: English 3156

4825-4835 Special Topics in Canadian Literature is a variety of topics to be offered as resources permit.

10.10.4 Modern Literature

2215 American Literature to 1900 is a study of the historical origins and development of nineteenth century American Literature, concentrating on a selection of works within their political, social and artistic contexts.
CR: English 2214

2242 Science Fiction is a survey of Science Fiction from its earliest days to the present. Subjects that will be considered include the evolution of the genre, the relations among humans, technology and multinational capitalism, and the significance of memory and space.

CR: English 2811
PR: successful completion of a first-year English sequence

2243 Introduction to Humour in Literature begins with a survey of humour theories from antiquity to the present, and proceeds to a study of various forms and strategies of humour through a selection of works in English. Students will study texts exploring the roles that humour plays in relation to topics such as transgression, iconoclasm, class, sexuality, gender, ethnicity, culture, politics and religion.

CR: English 2121
PR: 6 credit hours in first-year English

2244 The Graphic Novel - Historical, Cultural and Literary Contexts (same as Social/Cultural Studies 2244) examines the historical, cultural and literary impact of the Graphic Novel; investigates its continuing development; and introduces students to significant works within the genre.

CR: English 3842, Social/Cultural Studies 2244
PR: 6 credit hours first-year English; one of Folklore 1000, Anthropology 1031, or Sociology 2000

2705 Modern World Literature in Translation is a study of modern world literature in English translation, with focus on writers of the twentieth century who have attained international stature.

2805 Women's Writing to 1900 is a study of writing by women in the British Isles and North America from the Middle Ages to 1900, including such items as letters and journals as well as fiction, poetry, and drama.
CR: English 3810, English 3830 This credit restriction replaces the note in earlier calendars and is retroactive to September 1, 1993.

2870 Children's Literature is an introduction to literature written for children and young people. Beginning with an examination of the history of children's literature in the British Isles and North America, the course will focus on twentieth century and contemporary works, touching on a broad range of genres, audiences, and reading levels.

2905 Introduction to Creative Writing will introduce students to three main areas of creative writing: poetry, prose fiction, and creative non-fiction (travel writing, autobiography, journalism). Much of the emphasis will be on writing as a medium of communication. For this reason, some of the instruction will be the workshop system in which students act as each other's readers and audience.
PR: 6 credit hours in first-year English

3215 20th Century American Literature is study of American poetry and fiction from 1900 to 1960.
CR: English 4260, English 4261, English 4270

3216 20th Century British and Irish Literature is a study of British and Anglo-Irish poetry and fiction from 1900 to 1960.

3810 20th Century Non-Fiction Writing by Women is a study of twentieth century topical writing by women, including writing about social, political, and artistic and literary questions. Non-traditional as well as traditional genres will be studied.

CR: English 2805, English 3830 This credit restriction replaces the note in earlier calendars and is retroactive to September 1, 1993.
PR: English 2805 or permission of the instructor

3905 Creative Writing is a workshop course for aspiring writers of poetry and/or fiction. Limited enrolment. Applicants will be required to submit a sampling of their previous and current work.

PR: permission of the instructor
UL: credit may be obtained for only two of English 3900, English 3901, and English 3905

4245 Contemporary Fiction in English is an in-depth study of a selection of recent short fiction and novels in English. The focus will be on recent developments in American, British, Irish and Commonwealth fiction (excluding Canadian).

4246 Contemporary Poetry in English is an in-depth study of contemporary poetry in English. The focus will be on major poets and developments in the U.S.A., Britain, Ireland and the Commonwealth (excluding Canada) since 1945.

4905 Advanced Creative Writing is a workshop course for creative writers who have demonstrated considerable talent and skill in poetry and/or prose fiction. Limited enrolment.
PR: permission of the instructor

10.10.5 English Courses for Non-Major Students

2010 Comprehension Writing and Prose Style (I) will chiefly emphasize

the development of (a) the capacity to understand and appreciate the varieties of prose through close analysis of a wide range of examples, and (b) the ability to write expository and other kinds of prose.

CR: English 1110

3110 Greek Literature in Translation (same as Classics 3110) is representative readings in English of the principal literary forms of Classical Greece. The literary achievement of the Greeks and their contributions to Western letters and culture.

CR: Classics 3110

3111 Latin Literature in Translation (same as Classics 3111) is representative readings in English of the principal literary forms of Republican and Imperial Rome. The literary achievement of the Romans and their contribution to Western letters and culture.

CR: Classics 3111

10.10.6 Intensive English

011F Core Intensive English Program covers reading through a variety of types of texts, vocabulary development, writing development, and academic listening and note-taking skills.

10.11 Environmental Science

For existing Memorial University of Newfoundland courses, the numbers remain the same. For new courses in Environmental Science, the following four-digit scheme is used:

1st digit = Year

2nd digit = Parent Discipline:

0 = Multidisciplinary

1 = Biology

2 = Chemistry

3 = Earth Science

4 = Physics

9 = Project

3rd digit = Subdiscipline:

(Biology): 1 = Botany 1 = Analytical 5 = Research

(Chemistry): 2 = Zoology 2 = Inorganic 8 = Science Writing

(Multidisciplinary): 3 = Ecology 3 = Physical 6 = Environmental 4 = Organic

4th digit = Numerical Sequence.

Courses specifically designed for the environmental science program(s) are given the designation "Envs". Thus, for example, in the Winter semester of the 2nd year, Environmental Chemistry is offered, with a course number = **Envs 2261**.

Environmental Science courses are designated by ENVS.

10.11.1 Environmental Biology

3110 Taxonomy of Flowering Plants is a study of the biodiversity of flowering vascular plants (Magnoliophyta) through the practical identification of Newfoundland families, genera, and species. Related taxonomic and biogeographical principles will be stressed.

CR: Biology 3041

LH: 3 laboratory periods of integrated practice and theory

OR: Students must submit a collection of flowering plants identified to the species level. Detailed instructions should be obtained from the instructor in the spring/summer prior to the commencement of this course.

PR: Biology 2010 or equivalent

3130 Freshwater Ecology is the study of freshwater ecosystems (lakes, rivers, streams, peatlands). Included are abiotic components, community structures, energy flow, biogeochemical cycles, and the evolution of natural and altered aquatic ecosystems. Emphasis will be placed on field and laboratory studies of the ecology of freshwater organisms and systems in western Newfoundland.

LH: 3

PR: Biology 2010, Biology 2122, Biology 2600; one of Chemistry 1001 or Chemistry 1011

3131 Impacted Terrestrial Ecosystems is an examination of ecological and evolutionary responses by organisms in terrestrial ecosystems to human-derived and natural perturbations. Advanced conceptual, empirical and experimental approaches will be used, with an emphasis on sampling local habitats.

CR: Biology 3610

LH: 3

PR: Biology 2600; and two of Biology 2010, Biology 2122, Biology 2210 or the permission of the instructor and Program Chair

4132 Analytical Ecology states that the assessment of environmental impacts on higher-level ecological systems requires a critical analysis of scientific reports, along with the ability to evaluate ecological terminology and concepts and associated statistical methodologies. Students in this course will critically read and analyse recent scientific literature in Environmental Biology, with selected topics at the community, ecosystem and landscape level, and examine related univariate and multivariate statistical procedures

LH: three-hour laboratory/discussion group

PR: Biology 2600, Statistics 2550 (or equivalent), with 6 credit hours from clause c. of the Environmental Science Core. It is recommended that students complete at least 80 credit hours before registering for this course.

4133 Conservation Biology will bring together the principles of ecology and conservation Biology at an advanced level. Current issues and techniques will be discussed with an aim towards understanding how populations of native flora and fauna can be managed for long-term conservation in the face of habitat degradation and loss.

CR: Biology 4650 and Geography 4650

LH: three-hour laboratory/discussion group

PR: two of ENVS 3110, 3130, and 3131; or permission of instructor

4140 Environmental Science Field Course is a course providing practical experience in the observation, collection, identification and quantification of organisms and the various environmental parameters which affect them in pristine and disturbed habitats. Combinations of freshwater, marine and terrestrial habitats will be studied using techniques from various scientific disciplines. The actual combination of habitats, organisms, and techniques will vary from year to year.

PR: Biology 2600, Statistics 2550, with a minimum of 80 credit hours from Environmental Science Program (or equivalent) and permission of the instructor and Program Chair.

10.11.2 Environmental Chemistry

2261 Survey of Environmental Chemistry is an introduction to environmental problems, underlying chemistry and approaches to pollution prevention. Stratospheric chemistry and the ozone layer. Ground level air pollution. Global warming and the Greenhouse Effect. Toxic organic chemicals (TOCs), including herbicides, pesticides. Toxicology of PCBs, dioxins and furans. Chemistry of natural waters. Bioaccumulation of heavy metals. Energy production and its impact on the environment, including nuclear energy, fossil fuels, hydrogen.

PR: Chemistry 1001 or Chemistry 1031 or Chemistry 1051 or Chemistry 2440 or the permission of the instructor and Program Chair

3210 Environmental Analytical Chemistry I is treatment of data, error analysis, wet methods of analysis of laboratory and field samples. Volumetric methods for acidity, alkalinity and hardness; chemical and biological oxygen demand (COD and BOD). Gravimetric methods for sulphate and phosphates. Theory and application of specific ion electrodes analysis of metal ions, dissolved gases and halide ions. Turbidimetric and nephelometric measures of water quality. Spectrophotometric analysis of trace metal ions.

LC: not more than seven hours per week

LH: not more than seven hours per week

PR: Chemistry 2300 (or 2301) and Chemistry 2210

3211 Environmental Analytical Chemistry II is theory and application of spectroscopic methods of analysis (including error analysis) of environmentally important compounds. Spectrophotometric, FTIR, light scattering, chromatographic (GC, GC/MS, HPLC), fluorescence, phosphorescence, atomic absorption and electroanalytical methods will be studied. Synthetic laboratory samples and field samples will be examined by these techniques.

LC: Not more than seven hours per week

LH: Not more than seven hours per week

PR: ENVS 3210 (or equivalent)

3260 Industrial Chemistry is chemical principles used in the manufacture of inorganic and organic chemical products; electrochemical, petrochemical, polymer, pulp and paper, agricultural, cement, cosmetics, detergent and paint industries. Processes, specific pollutants of current interest: inorganic (e.g. mercury, nitrogen oxides and sulfur oxides gases, lead etc.) and organic (e.g. PCBs, chlorinated hydrocarbons, freons, pesticides/herbicides). Industrial sources and analytical methods of detection will be studied.

PR: Chemistry 2210, Chemistry 2401, and ENVS 2261 (ENVS 2261 may be taken concurrently) or permission of the instructor and Program Chair

3261 Atmospheric Chemistry is electronic, vibrational and rotational spectroscopy. Rates and mechanisms of gas phase reactions (particularly photochemical). Thermodynamics of the atmosphere. Formation, evolution and structure of the Earth's atmosphere. Chemical and physical properties of the atmospheric gases. Global element cycles. The stratosphere and ozone variability. The ionosphere. Atmospheric pollutants. Problems of the

"greenhouse" gases. Aerosol chemistry. Wet and dry deposition.

PR: Chemistry 2300 (or 2301), Chemistry 2210 or the permission of the instructor and Program Chair

4230 Aquatic Chemistry I is thermodynamics and kinetics of model systems. Acids and bases (including buffer intensity and neutralizing capacity), dissolved gases, precipitation and dissolution. Metal ions in aqueous solution. Redox control in natural waters. Pourbaix diagrams. Regulation of chemical composition of natural waters, pollution and water quality.

LC: not more than seven hours per week

LC: not more than seven hours per week

PR: ENVS 3211 and one of Chemistry 2400 or Chemistry 2440 or permission of the instructor and Program Chair

4239 Aquatic Chemistry II - inactive course.

4240 Organic Chemistry of Biomolecules is structure and properties of carbohydrates, proteins, lipids, steroids, DNA and RNA. The chemistry of the cell in relation to its toxicology; effects of bioactive agents on cells, organelles, tissues and whole organisms. Natural products including those from the rain forest and marine environments. The role of metal ions in biomolecules. Examples of biosynthesis. Chemistry and mechanisms of mutagenesis and carcinogenesis.

PR: Chemistry 2401 or Chemistry 2440 or permission of the instructor and Program Chair

4249 Environmental Organic Chemistry focuses on anthropogenic sources of organic chemicals and pollutants in the environment. Concepts of organic chemistry (synthesis, structure, physical properties, chirality, industrial organic processes), biological chemistry (enzymes, oxidative pathways) and physical chemistry (equilibria, partitioning) extended and applied to mass transport through soil, water and air. Kinetics and mechanisms of chemical, photochemical and biological degradation and conversion of organics. Structure-reactivity relationships for organic chemicals and degradation intermediates in the environment.

PR: ENVS 4240, ENVS 3261, ENVS 4230 or the permission of the instructor and Program Chair

10.11.3 Other Environmental Science

1000 Introduction to Environmental Science is an introduction to the study of the environment. Environmental principles, issues and problems will be described and placed in a historical and societal context.

2360 Geological Hazards and Natural Disasters will introduce students to the geological aspects of the natural environment and the impacts that natural geological processes and phenomena may have on humanity. The impact of geological hazards and natural disasters on human society and behaviour will be examined through case studies.

PR: 15 credit hours or more

2369 Introduction to Soils provides a broad background knowledge about soils. Topics covered include: the origin of soils; physical, biochemical, and engineering aspects of soils; influence on humans and their food production; soil pollution and degradation; and management and conservation of soils.

PR: Earth Science 1000 or Geography 1000

2370 Global Environmental Change is a survey of the Earth as a dynamic system. Discussion of interacting cycles that define the Earth's environment. Material cycles and energy concepts. Evolution of the atmosphere in response to lithospheric, biospheric and hydrospheric changes. Major global environmental changes from Earth's formation to present. Emphasis on self-regulating ability of the Earth system.

PR: 30 credit hours or more

2371 Oceanography is historical review of science of oceanography. Earth and Earth systems (including plate tectonics), Marine sediments and sedimentary environments. Chemical and physical properties of seawater. The atmosphere and the oceans, ocean circulation. Waves and tides, coastal environments, distribution of organisms. Applied oceanography.

PR: 30 credit hours or more

2430 Energy and the Environment considers energy, energy conversion, heat transfer, the laws of thermodynamics, nuclear processes and radiation. Practical problems such as the energy shortage, human influences on climate, resource extraction, nuclear power etc. will be discussed.

PR: Mathematics 1081 or Mathematics 1000; Physics 1021 or co-requisite Physics 1051

2450 Meteorology is an application of physics and mathematics to the study of the atmosphere. Atmospheric motion on the global, synoptic, meso- and micro-scales. An introduction to atmospheric radiation and thermodynamics, clouds and precipitation. Vertical soundings and the analysis and interpretation of surface and upper-air weather maps.

CO: Physics 1051 or prerequisite Physics 1021

PR: Physics 1021 or co-requisite Physics 1051

3072 Comparative Marine Environments will investigate the physical,

chemical, geological and biological characteristics of the major marine environments from the coastal zone to the abyss and from the equator to the poles. The objective of the course will be an integrated study of the parameters that define the various environments. Emphasis will be placed on the interaction of organism and environment. The influence of the environment on the form, function and behaviour of organisms and the influence of the organism in modification of the physical environment will be stressed.

PR: ENVS 2371

3470 Transport Phenomena is fundamentals of fluid flow. Conservation laws for mass, momentum, and energy. Dimensional analysis. Turbulence. Confined fluid flows. Fundamentals of heat transfer. Conduction, convection, and radiation. Diffusion, dispersion, and osmosis. Applications to transport of pollutants at the microscopic and macroscopic scale.

PR: Mathematics 1001, Physics 1020 and Physics 1021 or Physics 1050 and Physics 1051

4000 Environmental Science Seminar reviews current topics in environmental science and discusses in a seminar format. Seminars will be presented on current research and environmental issues by faculty, students and guest speakers from universities, government and industry.

PR: Environmental Science students who have completed 80 credit hours or more, to include Biology 2600, Statistics 2550 and one of Chemistry 2440, Chemistry 2401, Chemistry 2210, or Chemistry 2300 (or 2301).

4069 Fundamentals of Soil Systems is the physics, chemistry and Biology of soil, including inorganic soil components, chemistry of organic soil matter, soil equilibria, sorption phenomena on soils, ion exchange processes, kinetics of soil processes, redox chemistry of soils, soil acidity, saline and sodic soils, organic pollutants, trace and toxic elements in soils, soil organisms, organic matter cycling, nutrient cycling and fertility, soil conservation and sustainable agriculture.

LC: not more than six hours per week

LH: not more than six hours per week. The laboratory will cover a number of key physical, chemical and biological properties and procedures used in soil analyses. One or more field trips will be scheduled during laboratory sessions

PR: Biology 2600, Earth Sciences 1000, one of Chemistry 2210, Chemistry 2300, Chemistry 2301, Chemistry 2401, or Chemistry 2440, and 6 credit hours selected from ENVS 2261, 2360, 2370, 2371, 2430, 2450, 3072, 3470, or Environmental Studies 2000. It is recommended that students complete at least 80 credit hours before registering for this course.

4131 Environmental Restoration and Waste Management focuses on procedures aimed at restoring and rehabilitating ecosystems, with an examination of the interdisciplinary scientific basis underlying these procedures. The efficacy of management options, e.g. biomanipulation, microbial degradation and chemical treatments, involved in restoration and waste management will be evaluated. Applications and practical case studies of both aquatic and terrestrial ecosystems will be covered.

PR: Biology 2600, one of Chemistry 2210, Chemistry 2300, Chemistry 2301, Chemistry 2401, or Chemistry 2440, and 6 credit hours selected from ENVS 2261, 2360, 2370, 2371, 2430, 2450, 3072, 3470, or Environmental Studies 2000. It is recommended that students complete at least 80 credit hours before registering for this course.

4479 Groundwater Flow is groundwater in the hydrologic cycle. Principles of fluid flow through permeable media. Hydraulic properties of soil and rock formations. Groundwater at the local and regional scale. The unit basin model. Groundwater as a transport agent of chemicals and microbes. Groundwater resources, reservoir characterisation, and quality assessment. Groundwater contamination.

PR: ENVS 3470 or the permission of the instructor and Program Chair

4910-4930 Special Topics in Environmental Science are special topics courses in Environmental Science normally taken by students beyond the second year.

4950 Research Project in Environmental Science is a course, with the guidance of a faculty member, where students will conduct a scientific study based upon original research or a critical review of extant data in an appropriate area. Students are required to submit a report and give a presentation. This project fulfils the Core requirement for a fourth-year individual project in the area of specialization.

PR: permission of Program Chair

4951 Honours Project in Environmental Science I is a course, under the guidance of a designated supervisor (or supervisors), where the student will prepare a thesis proposal including a comprehensive literature review of the subject of their Honours thesis. Students will present the results of their work in both written and oral form.

PR: restricted to Environmental Science students who have been accepted into the Honours option

4959 Honours Research Project in Environmental Science II is a continuation of ENVS 4951 specifically for Honours students. Under the supervision of faculty member(s), students will carry out an original research project in environmental science. Students will present both a thesis and

seminar on their research.

PR: ENV5 4951 and admission to the honours program

10.12 Environmental Studies

New Course Numbering

For existing Memorial University of Newfoundland courses the numbers remain the same. For new courses in Environmental Studies the following scheme is used.

1st digit = year

2nd digit = Program Concentration

0 = common to both concentrations

1 = Environmental Perspectives Concentration

2 = Outdoor Environmental Pursuits Concentration

9 = Project

Environmental Studies courses are designated by EVST.

1000 An Introduction to Environmental Studies is an introduction to a variety of major issues in environmental studies through an examination of a range of case studies including both local problems, such as the impact of outdoor recreation activities on the environment, and global threats, such as stratospheric ozone depletion.

2000 Introduction to Mapping, Remote Sensing, and Geographical Information Systems is an introduction to maps, global positioning systems, remote sensing, and geographic information systems. Applications to a broad range of environmental issues will be discussed.

LC: 3

LH: 3

PR: Geography 1000 or Earth Sciences 1002

2210 Outdoor Environmental Pursuits I is the theoretical rationale and practical skills needed to demonstrate basic proficiency in several of the following activities: minimal impact camping, wilderness cooking, hiking, kayaking, canoeing, navigating with map and compass, outdoor safety, search and rescue, and group management. The major focus of this course will be the practical application of learned skills.

AR: attendance is required

CO: basic first aid and CPR course

OR: 3 hours of practicum per week

2220 Outdoor Environmental Pursuits II is the theoretical rationale and practical skills needed to demonstrate basic proficiency in several of the following activities: cross-country skiing, telemark skiing, downhill skiing, snowshoeing, winter camping, and winter survival techniques. The major focus of this course will be the practical application of learned skills.

AR: attendance is required

OR: 3 hours of practicum per week

3000 Issues in Environmental Economics is an analysis of current issues concerning the effects of the economic activities of production and consumption on the natural environment. The concepts of scarcity, abundance, demand, supply, opportunity cost, trade-offs, externalities, marginal benefits and marginal costs will be utilized in examining environmental problems. The social and economic implications of various approaches will also be analysed.

OR: Economics 2010

3001 Environmental and Resource Management: Applications of Geographic Information Systems is applied GIS knowledge and skills in environmental and resource management. The topics cover GIS data sources, data conversions, database design, spatial analysis and decision support systems. Examples of GIS applications in the private and public sectors will be provided.

LH: 3

PR: EVST 2000

3085 Issues in Ecological Economics aims to explore the dynamic interaction between the economic system and the ecological system that sustains it by using trans-disciplinary theoretical approaches and methodologies. The main focus of this course will be on Ecological Economics concepts such as low and high entropy, biotic and abiotic goods and services, stock-flow resources, carrying capacity, throughput, co-evolution, sustainable scale, use value, and their applications in a problem-solving context.

CO: Economics 2010 and Economics 2020

CR: Economics 3085, the former EVST 3010, and EVST 4020

PR: Economics 2010 and Economics 2020

3210 Expedition will consist of one or more extensive expeditions into wilderness areas. A variety of applied topics related to environmental issues, outdoor leadership, and outdoor survival will be covered using an experiential approach. Expedition: Two weeks (Summer term).

AR: attendance is required

PR: EVST 2210 and EVST 2220

4000 Environmental Impact Assessment will include an analysis of the different methods of assessing the impacts that investment projects or decision-making processes have on the environment. Environmental Impact Assessments (EIAs) vary with individual projects and are a vital tool to use in integrated planning of development proposals, policies and programs. Emphasis will be given to assessing the socio-economic impact of development projects.

4010 Seminar in Environmental Studies is a senior seminar in which selected environmental issues will be examined from several disciplinary perspectives.

OR: seminars three hours per week

PR: permission of the Environmental Studies Program Chair

4020-4039 Special Topics in Environmental Studies has a range of special topics in Environmental Studies. This course is normally taken by students beyond the second year.

4950 Independent Research Project is a course, under the supervision of a faculty member, where each student will carry out an approved project in environmental studies and prepare a major paper based on independent research.

PR: permission of the Environmental Studies Program Chair

10.13 Folklore

Folklore 1000 (or 2000) is the prerequisite for all other courses in Folklore, except Folklore 1050, Folklore 1060 and those courses cross-listed with other subject areas.

Folklore courses are designated by FOLK.

1000 Introduction to Folklore is the role that tradition plays in communication, art and society will be discussed through an examination of folklore materials from Newfoundland and the English-speaking world. Readings and "listensings" will emphasize the use of folklore in context, e.g., the proverb in speech and the folksong in childrearing. Students will be urged to analyse the traditions in their own lives through special assignments.

CR: FOLK 2000

1050 Folklore Studies is an examination of specific folklore studies illustrating important themes and approaches in folkloristics. These will include antiquarian, nationalistic, diffusionist, historic-contextual, functional, structural, and performance analyses as typified in selected readings from the works of leading folklorists.

There is no prerequisite for this course. However, students should note that they will need to take FOLK 1000 (or FOLK 2000) before they can advance to other courses.

2100 Folklore Research Methods - An Introduction is designed to provide the basic introduction to the research resources, tools and methods regularly employed in the area of Folklore. On the one hand, the course will examine what types of Library and Archive resources can be useful to the folklorist and, on the other hand, it will explore how folklorists in fieldwork situations should handle people, and how they can capture for posterity a record of the interviews that they have conducted and the events that they have observed. It is strongly recommended that majors and minors take this course before taking 3000 and 4000 level courses.

2230 Newfoundland Society and Culture (same as Sociology/Anthropology 2230) is the Sociology and Anthropology of the Island of Newfoundland. The focus is on social and cultural aspects of contemporary island Newfoundland.

CR: Sociology/Anthropology 2230

2300 Newfoundland Folklore (same as Anthropology 2300) is survey of the various types of Folklore: tale, song, rhyme, riddle, proverb, belief, custom, childlore and others, with stress on their function in the Newfoundland community culture. Individual collection and analysis of materials from the students' home communities, supplemented by data from the this University's Folklore and Language Archive.

CR: Anthropology 2300 and the former FOLK 3420

PR: FOLK 1000 or FOLK 2000, or Anthropology 1031

2401 Folklife Studies is an examination of the traditional cultures of Europe and North America with special reference to Newfoundland. A selection of the following areas will be covered: settlement patterns, architecture, work and leisure patterns in the folk community, calendar customs, rites of passage, folk religion, folk medicine, language and folk culture, folk costume, foodways and folk art.

CR: the former FOLK 3500

2500 Folk Literature (same as Anthropology 2500) is an examination of the major genres of folk literature: folk narrative, folk poetry and song, folk drama, and the traditional generic forms within folk speech. An introduction to the textual, comparative and contextual methods of analysis. The literature discussed will be international in scope.

CR: Anthropology 2500 and any of the former FOLK 3400, English 3400,

Sociology/Anthropology 3400
PR: FOLK 1000 or FOLK 2000, or Anthropology 1031

2600 Regional Folklore - inactive course.

3130 Greek and Roman Mythology (same as Classics 3130) is a comparative study of specific myths and folktales of Greece and Rome as embodied in the literary and artistic remains of the ancient world with reference to their origins and their influence on later art and literature.
CR: Classics 3130

3200 Folksong is an introduction to the full range of traditional verse, song and music. Stress primarily on the songs of Canada, the United States and the British Isles, with attention to Newfoundland parallels. Examination of traditional vocal and instrumental styles as well as verse forms. Some reference to non-Western musical traditions. A knowledge of music is not a prerequisite.
CR: the former FOLK 2430

3300 Folk Drama is a survey of the main forms of traditional drama found in Great Britain and North America with reference to related European and non-western traditions. The origins, history and regional variations of these forms will be considered together with questions of social function, performance and aesthetics. The history of research in the area of folk drama will be examined along with related methodological and theoretical issues.

3450 Language and Play is an examination of such forms as the rhyme, riddle, proverb and proverbial saying, game, etc. Emphasis on problems of function and classification. Material will be chiefly from the British and North American traditions. Collecting will be encouraged.

3601-3620 Special Topic in Folklore will have topics to be studied announced by the Division.

3850 Material Culture is an examination of various interpretive theories of objects as cultural products. Problems of defining the artifact will be discussed, as well as the strengths and limitations of using objects in historical and ethnographic research. Questions discussed include form, design, decoration, diffusion, and the role of the creator of the object. Besides folkloristic work on material culture, a variety of interdisciplinary approaches will be considered. Emphasis will be on the material folk culture of Newfoundland and its European antecedents.
CR: Archaeology 3850

3920 Folklore and Education is intended to familiarize students with the function of Folklore in the educational process. Emphasis will be on cultural transmission, cultural learning and child training practices (including mechanisms of social control.) The relationship of formal to informal education will be examined with particular reference to Newfoundland.
CR: the former FOLK 3030 or FOLK 4475

3930 Folklore and Popular Culture is an examination of the transitional processes involved in the development of folk societies to mass cultures with regard to folklore and the products of popular culture. In addition, sensory and technological media theories will be scrutinized and evaluated in conjunction with cultural comparisons of the qualities and functions of: folksong, disc recordings and the radio; folktales, television melodrama and popular film; folk art and popular "techno-art" forms.
CR: the former FOLK 2400

4300 Folklore of Canada is an examination of a variety of Canadian folklore from historical, geographical and cultural perspectives. Emphasis will be placed upon the application of theories of Canadian culture to folklore studies. Questions of the role of folklore and folklife with respect to identity, ethnicity, multiculturalism, national literature, regionalism and similar issues will be considered.
CR: the former FOLK 1020

4440 Music and Culture (same as Anthropology 4440, Music 4040, the former Music 4440) is traditional music as an aspect of human behaviour in Western and non-European cultures. Examination of the functions and uses of music; folk-popular-art music distinctions; and the relation of style to content. Outside reading, class exercises and individual reports will be required.
CR: Anthropology 4440, Music 4040, the former Music 4440

4480 Folklore and Oral History is a seminar which deals with the uses of oral sources, particularly those which have a traditional dimension, for the study of history. It will discuss the methods developed by Vansina, Dorson and others for evaluating the historical meaning of oral traditions in literate and non-literate cultures. The uses of oral testimony in the study of traditional modes of life and work such as fishing and farming will be considered. The use of oral traditions in the study of social and political history will also be discussed.
CR: History 4480

10.14 French

Three consecutive credit courses in French language are available at the first-year university level, providing a complete overview of basic oral and written French. New students may choose to register initially in French 1500 or 1501; a diagnostic test is offered to assist students with initial course selection or to confirm that initial course selection is appropriate. Students with a limited background in French should register for French 1500 and continue with 1501. Students with a strong background in high-school French should bypass 1500 and begin their university study with 1501, especially if they intend to proceed beyond the first-year level. Very well prepared students may apply to the Division for permission to enter 1502 directly. Bypassing one or more of these courses may enable students to include a larger number of advanced electives in their degree program. French 1500, 1501 and 1502 require three hours of instruction per week and two additional hours of language laboratory work or conversation class, or both.

French courses are designated by FREN.

1500 Introduction à la langue française, niveau universitaire I cours pour débutants et pour ceux dont les connaissances du français sont très faibles. La permission de s'inscrire à ce cours ne sera pas accordée à ceux qui ont complété le Français 3202 (Immersion française au High School). Voir ci-dessus la note.

CR: l'autre des cours Français 1010 et 1011 (désormais supprimés)

1500 Introductory University French I is a course for beginners and for students whose background in French is very weak. Permission to register for this course will not be given to students who have completed Français 3202 (High School French immersion). See Note above.

CR: the former FREN 1010 or 1011

1501 Introduction à la langue française, niveau universitaire II Voir ci-dessus la note.

CR: et Français 1050 (désormais supprimé)

PR: High School French 3200 ou permission du chef du département. Les étudiants qui ont complété un programme d'immersion devraient consulter le chef du département avant de s'inscrire à ce cours.

1501 Introductory University French II See Note above.

CR: the former FREN 1050

PR: High School French 3200 or permission of the Head of the department. Ex-immersion students should consult the Head of the Department before registering for this course.

1502 Introduction à la langue française, niveau universitaire III Voir ci-dessus la note.

CR: et Français 1051 (désormais supprimé)

PR: 1501, ou la permission du chef de la division

1502 Introductory University French III See Note above.

CR: the former FREN 1051

PR: 1501, or by permission of the head of the division

2100 Français intermédiaire I rédaction, grammaire et pratique orale.

PR: Français 1502

2100 Intermediate French I is composition, grammar and practice in oral skills.

PR: FREN 1502

2101 Français intermédiaire II continuation du travail de rédaction, de grammaire et de communication orale.

PR: Français 2100

2101 Intermediate French II is further work in composition, grammar and oral skills.

PR: FREN 2100

2300 Phonétique introduction pratique à la phonétique du français. Emploi des symboles de l'alphabet phonétique, transcription phonétique et phonétique corrective.

PR: Français 1502 ou équivalent

2300 Phonetics is a practical introduction to French phonetics, including the International Phonetic Alphabet and phonetic transcription as well as corrective phonetics.

PR: FREN 1502 or equivalent

2601 Apprentissage de la lecture les étudiants exploreront des stratégies de lecture qui faciliteront la compréhension de textes divers. Ce cours sera normalement enseigné en français.

CR: Les étudiants ayant complété Français 2550 peuvent suivre Français 2601 ou Français 2602, mais pas les deux. Les étudiants ayant complété Français 2551 peuvent suivre Français 2601 ou Français 2602, mais pas les deux. Les étudiants ayant complété Français 2550

et Français 2551 ne peuvent suivre ni Français 2601 ni Français 2602.

PR: Français 1502 ou Français 2159, ou équivalent

2601 Reading Skills will explore reading strategies in a variety of texts in French. This course will normally be taught in French.

CR: Students who have successfully completed FREN 2550 may take either FREN 2601 or FREN 2602, but not both. Students who have successfully completed FREN 2551 may take either FREN 2601 or FREN 2602, but not both. Students who have completed both FREN 2550 and FREN 2551 may not take either FREN 2601 or FREN 2602.

PR: FREN 1502, or FREN 2159 or equivalent

2602 Lecture de textes intégraux les étudiants exploreront des stratégies de lecture qui faciliteront la compréhension de textes intégraux. Ce cours sera normalement enseigné en français.

CR: Les étudiants ayant complété Français 2550 peuvent suivre Français 2601 ou Français 2602, mais pas les deux. Les étudiants ayant complété Français 2551 peuvent suivre Français 2601 OU Français 2602, mais pas les deux. Les étudiants ayant complété Français 2550 et Français 2551 ne peuvent suivre ni Français 2601 ni Français 2602.

PR: Français 1502, ou Français 2159 ou équivalent

2602 Reading Complete Texts will explore reading strategies in a variety of complete texts in French. This course will normally be taught in French.

CR: Students who have successfully completed FREN 2550 may take either FREN 2601 or FREN 2602, but not both. Students who have successfully completed FREN 2551 may take either FREN 2601 or FREN 2602, but not both. Students who have completed both FREN 2550 and FREN 2551 may not take either FREN 2601 or FREN 2602.

PR: FREN 1502, or FREN 2159 or equivalent

2900 A Survey of Francophone Cultures places emphasis on oral comprehension and expression. This course is a prerequisite for FREN 3650-3651-3653.

CR: the former FREN 2500

PR: FREN 1502 or equivalent. Students who have obtained less than 70% in FREN 1051 are, however, advised to complete FREN 2100 before attempting this course.

3100 Grammaire et analyse de textes révision des catégories nominale et verbale du français (morphologie, nombre, genre, temps, aspect, mode, voix). Analyse grammaticale et stylistique des textes avec un accent particulier sur l'emploi du verbe en français. Travaux d'expansion lexicale.

PR: Français 2101 ou Français 2160 et au moins un autre cours de français de niveau 2000

3100 Grammar and Textual Analysis is revision of the French noun and verb systems (morphology, number, gender, tense, aspect, mood, voice). Grammatical and stylistic textual analysis with special emphasis on the use of verbs in French. Vocabulary enrichment.

PR: FREN 2101 or FREN 2160 and at least one other 2000-level course in French

3101 Stylistique et analyse de textes rôle et fonction des parties du discours; exploitation sémantique (synonymie, polysémie); tropes et figures de style. Analyse grammaticale et stylistique de textes avec un accent particulier sur ces phénomènes. Travaux d'expansion lexicale.

PR: Français 2101 ou Français 2160 et au moins un autre cours de français de niveau 2000

3101 Stylistics and textual analysis is role and function of the parts of speech in French; semantic enrichment (synonymy, polysemy); tropes and figures of speech. Grammatical and stylistic textual analysis with special emphasis on these phenomena. Vocabulary enrichment.

PR: FREN 2101 or FREN 2160 and at least one other 2000-level course in French

10.15 Gender Studies

Gender Studies courses are designated by GNDR.

2000 An Interdisciplinary Introduction to Gender Studies (same as the former Women's Studies 2000) is an interdisciplinary introduction to the major concepts, issues and debates of Gender Studies.

CR: the former Women's Studies 2000

2001 Women and Science (same as the former Women's Studies 2001) is an investigation of: historical and contemporary contributions of women scientists, especially Canadians; different sciences and how they study women; and feminist and other perspectives on gender and science.

CR: the former Women's Studies 2001

3000-3010 Special Topics in Women's Studies (same as the former Women's Studies 3000 - 3010) has a range of special topics in Gender Studies.

CR: the former Women's Studies 3000 - 3010

4000 Contemporary Feminist Issues same as the former Women's

Studies 4000) is an interdisciplinary seminar in Gender Studies that identifies emerging debates in contemporary feminism and analyses complex and contentious issues and how they intersect and disrupt social constructions of gender.

CR: the former Women's Studies 4000

OR: 3 hour seminar per week

PR: students must normally have completed GNDR 3005 or the former Women's Studies 3005 or GNDR 3025 and 15 credit hours in other courses applicable to the Gender Studies Major and Minor programs before taking GNDR 4000. In exceptional cases, students without these prerequisites may be accepted, with the approval of the instructor of GNDR 4000 and the Head of the Department.

10.16 Geography

Geography courses are designated by GEOG.

1000 Introduction to Geography I is an introduction to Geography incorporating concepts, skills and techniques used by the geographer to understand the Earth as the home of man. The major emphasis of the course is placed on man-environmental ecological systems. The course will include seminars and practical work.

CR: the former GEOG 1010

1001 Introduction to Geography II is a continuation of introduction to basic concepts and techniques in the field of Geography. This course emphasizes Geography as a social science and introduces the sub-fields of political, economic, cultural and urban Geography. The course will include seminars and practical work.

CR: the former GEOG 1011

2001 Cultural Geography is an examination of the basic themes of cultural Geography.

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

2102 Physical Geography: The Global Perspective is a study of form, process, and change in natural systems at and near the surface of Earth, viewed as human environment. Emphasis is on global and regional scales in the systematic study of climate, water, landforms and vegetation.

LH: 3

PR: GEOG 1000 or GEOG 1050, or the former GEOG 1011

2302 Issues in Economic Geography are basic issues and ideas in economic geography. The development of a regional economy will be related to underlying economic, cultural and physical factors.

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

2425 Natural Resources is an introduction to the concepts of natural resources, environment and conservation: the nature and distribution of natural resources; methods of use, allocation and development of natural resources and the role of various physical, social, economic, political and technological factors influencing decision-making about resources.

CR: the former 3325

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001

3222 Research Design and Quantitative Methods in Geography is an introduction to principles of research design, and to the use of quantitative techniques. This course provides students with a basic understanding of data collection, entry, and analysis and presentation skills most commonly used by geographers. Practical, computer-based exercises are an essential part of the course. It is strongly recommended that this course be completed before registration in a 4000-level geography course.

CR: the former GEOG 2220

LH: 3

PR: GEOG 1050, or the former GEOG 1011, or GEOG 1001 and at least 9 credit hours from GEOG 2001, GEOG 2102, GEOG 2195, GEOG 2302, GEOG 2425.

3900-3909 Special Topics in Geography will have topics to be studied announced.

PR: permission of the instructor and the Head of the Department

10.17 History

With the exception of 4000-level cross-listed courses, students are required to take 12 credit hours in History (in addition to History 1100/1101) or have permission of the Chair of the Historical Studies Program before enrolling in any 4000-level History course.

History courses are designated by HIST.

1100 Introduction to History is an introduction to the study and writing of history which will emphasize the concepts of history through a thematic approach to the history of western civilization from ca. 1500 to ca. 1815. (Offered only at Grenfell Campus.)

CR: HIST 1000

1101 Introduction to History is an introduction to the study and writing of history which will emphasize the concepts of history through a combination

of research and writing within a thematic approach to the history of western civilization from ca. 1815 to the present. (Offered only at Grenfell Campus.) Students in their first year normally take HIST 1100 and HIST 1101
CR: HIST 1001

2034 History of the Hellenistic World (same as Classics 2020) is a survey of the history of the Mediterranean world and the Near East from the death of Alexander the Great in 323 BC until the incorporation of the Kingdom of Egypt in the Roman Empire in 30 BC. Particular attention is given to the influence of the new monarchies on political, social and cultural developments in both Greek and non-Greek communities.
CR: same as Classics 2020

2035 History of Classical Greece (same as Classics 2035) is a survey of Greek history from the Bronze Age to the death of Alexander the Great, with special reference to the social and political institutions of the fifth century B.C.
CR: Classics 2035, HIST/Classics 2030 since 1985-86 or the former HIST/Classics 3910

2040 History of Rome (same as Classics 2040) is a survey of Roman history from the early monarchy to the reign of Constantine, with special reference to society and politics in the late Republic and early Empire.
CR: Classics 2040, HIST/Classics 3920

2100 Empires of the North Atlantic, 1500-1820 will examine European expansion across the Atlantic to North America, the attempt to take possession of that continent through commercial investment and colonies, and the way in which European colonies were transformed into new societies.

2120 The History of Canadian-American Relations, 1783 to the Present is a survey of the major themes in the history of Canadian-American relations, from the American Revolution to the present. Emphasis will be placed on economic, social, political and cultural developments.

2200 Canadian History to Confederation, 1867 is a survey of Canadian History to Confederation, 1867.

2210 Canada Since 1867 is survey of Canadian History since Confederation.

2300 Introduction to Modern European History: 1500-1789 is an introduction to the main issues and problems in early modern European History with an emphasis on the political, social, economic and cultural developments from the sixteenth through the eighteenth century.

2310 Europe in the Nineteenth Century: 1789-1914 is a survey of the economic, social, political and cultural developments of Europe from 1789-1914.

2320 Medieval Europe to 1050 is a survey of the economic, social, political and cultural developments of the early Middle Ages.
CR: the former HIST 2030

2330 Medieval Europe, 1050 to the Reformation is a survey of the economic, social, political and cultural developments of Europe in the high and late Middle Ages.
CR: the former HIST 2030

2500 The Twentieth Century I is a study of the world-wide impact of the main events and developments in the age of global interdependence.
CR: the former HIST 3700

2510 Twentieth Century II is an historical analysis of the main issues in the contemporary world since 1945.
CR: the former HIST 3710

2700 Art History Survey I (same as Visual Arts 2700) is the history of art from pre-historic times to the Renaissance.
CR: Visual Arts 2700

2701 Art History Survey II (same as Visual Arts 2701) is the history of art from the Renaissance to the 20th century.
CR: Visual Arts 2701

3030 Environmental History examines the history of human relationships to the natural environment. The focus of the course is the history of environmental changes caused by humans, and the reciprocal influence of the natural environment on human cultures and societies. Case Studies will introduce patterns of ecological change associated with broad historical transformations such as colonialism, military conflict, the development of world economies, etc.

3050 History of Warfare to 1789 is a survey of major developments in the history of warfare from the earliest times to 1789 with particular emphasis on changes in the nature and conduct of warfare, the evolution of military thinking, the organization of military and naval forces, the impact of technological change, the emergence of professionalism and the relationship between societies and armed forces.

3060 History of Modern Warfare since 1789 is an examination of those major developments which have affected the nature and conduct of warfare in the period since 1789, with particular emphasis on the evolution of military thinking, the impact of technology on organization and planning, the role of air power, the civil-military relationship, professionalism in the armed forces, and the changing nature of warfare: the emergence of total war, global war, guerilla warfare, and limited warfare.

3090 Alexander and the Macedonians investigates the impact of the conquests of Alexander the Great and his Macedonian Successors on the political, social, cultural, intellectual, and religious world of the Mediterranean and Near East between Alexander's accession in 336 and the battle of Ipsus in 301, when his vast empire was carved into Hellenistic kingdoms.
CR: Classics 3090

3110 History of Newfoundland to 1815 is the growth of settlement and the manner in which a 'migratory' fishery carried on from England and Ireland changed into a 'sedentary' fishery carried on by residents of Newfoundland.

3120 Modern Newfoundland Since 1815 is the establishment and development of political institutions, changes in economic structure and the growth of populations.

3135 France in the Americas: 1500-1815 investigates the French presence mainly in New France, but also Newfoundland, Florida, Louisiana, the Caribbean, Acadia, Ile Royale, and Brazil, from the earliest voyages of exploration to the Anglo-French struggle for North America. This topic will be studied within the greater framework of the transplantation of a European society onto a different continent, delving also into various subject themes such as French-aboriginal relations, politics, and government, women and gender, and society in France and New France.

3250 Migration History of North America is a survey of migration to and within North America from the seventeenth to the twentieth century.

3320 Early Modern France, 1500-1789 is French History from 1500 to 1789, with a focus on such themes as the Renaissance, political and social change, gender history and the Enlightenment.
CO: 6 credit hours that have the initial digit '2'
PR: 6 credit hours that have the initial digit '2'

3330 France: 1750-1852 is the study of France from the decline of the Old Regime to the end of the Second Republic.

3440 History of the British Empire and Commonwealth since 1815 is the transition from British Empire to Commonwealth of Nations.

3445 Witchcraft and the Witch-Hunts in Early Modern Europe is a history of witchcraft, demonology, and witch-hunts from 1400 to 1750, focusing on such themes as gender, the body and medical knowledge, religious dissidence, and popular culture.

3450 British History: 1485-1714 is the emergence of Britain under the Tudors and early Stuart monarchs.

3460 British History Since 1714 is British History from the accession of the Hanoverians to the welfare state.

3490 History of Ireland Since the Great Famine is a survey of Irish history from the mid-nineteenth century to the present.
CR: the former HIST 3470

3520 The Early Ethnohistory of North America's Native People (same as Anthropology 3520) is the North American native response to early European contact and initial settlement. Particular attention will be paid to cultural change resulting from the adoption of European goods, participation in the fur trade, the introduction of European disease, and the adaptation to a permanent European presence.
CR: Anthropology 3520

3525 The Later Ethnohistory of North America's Native People (same as Anthropology 3525) is Indian and Inuit cultural history of the Eighteenth and Nineteenth centuries, including the fur trade, resistance and accommodation to European expansion, the emergence of revitalization movements, demographic changes, and population shifts. Special emphasis will be placed on the ethnohistory of the native peoples of what is now Canada and northern United States.
CR: Anthropology 3525

3675 Navies and Societies Since 1650 is an examination of the rise of modern navies since 1650 that places navies and naval decisions within broader national and international political, economic and social contexts.
CR: the former HIST 3822

3700 Art History: The Italian Renaissance (same as Visual Arts 3700) is an overview of the art and architecture of Renaissance Italy with an emphasis upon the historical context in which art was produced.
CR: Visual Arts 3700

3701 Art History: The Renaissance Outside Italy (same as Visual Arts 3701) is the Renaissance outside Italy from the late Fourteenth century and

the international style through the 16th century.
CR: Visual Arts 3701

3770 Women in Western Society and Culture (II) are selected themes in the history of women in the modern period with a focus on cultural attitudes toward women, demographic trends affecting women, the impact of changing economic roles, and the development of feminism.
CR: the former HIST 3761

3840 Historical Methods is an introduction to the methods and practices of history in the modern era. This course is compulsory for Honours students and recommended for Majors, including those intending to apply for graduate studies. For Historical Studies students at Grenfell Campus this course is required for all majors and minors.
CR: the former HIST 4801
PR: 12 credit hours in History including HIST 1100/1101 or permission of the instructor

4101 The Renaissance in Europe, 1400-1550 is a seminar on the Renaissance in Europe, particularly in Italy and northern Europe, focusing especially on its intellectual and cultural aspects but also the social and gender history of the topic.

4230 Special Topics in Newfoundland History I are specialized studies in the History of Newfoundland.

4231 Special Topics in Newfoundland History II are specialized studies in the History of Newfoundland.
CR: the former Political Science 4731

4254 Special Topics in Canadian History: A History of Social Welfare is a study of the broad theme of the state and social welfare in Canada. It examines the origins of modern forms of social control as evidenced in the nineteenth century prison, the lunatic asylum, and the poorhouse. As well, it compares Canadian and British and American social welfare institutions and policies, and traces their historical evolution into the twentieth century.

4320 Special Topics in European History: The British Empire, 1688 to the Present has a range of special topics.

4410-4430 Historical Problems are specialized studies in historical problems.

4560-4570 Special Topics in Social and Intellectual History are specialized studies in social and intellectual history.

4730 Art History: Modern Art I (same as Visual Arts 4730) is an examination of the cultural, social, and political forces which, from 1750 to 1850, were to have a major impact on modernity and later modern art.
CR: Visual Arts 4730
PR: 6 credit hours in art history or permission of the chair of the Visual Arts Program

4731 Art History: Modern Art II (same as Visual Arts 4731) is an examination of the various cultural and social forces between 1850 and 1914 which shaped the rise of the Modern movement.
CO: 6 credit hours in art history or permission of the chair of the Visual Arts Program
CR: Visual Arts 4731
PR: 6 credit hours in art history or permission of the chair of the Visual Arts Program

4821 Reading Course (F and W) is a directed reading course for Honours and selected students including those intending to apply for graduate studies. Readings will be taken from a list of significant works in History, the Humanities, and the Social Sciences.
PR: permission of the Program Chair

4950 Independent Project in Historical Studies will have students complete an independent research project under the supervision of a faculty member or members. Topics must have the approval of the Program Chair of History.
PR: HIST 3840 and nine other History courses

10.18 Human Kinetics and Recreation (HKR)

Human Kinetics courses are designated by HKR.

3555 Outdoor Recreation Management is an overview of outdoor recreation practices in Newfoundland and Canada. This course will examine the management of resources, conservation education and practices, development for public use or exclusion; legislation related to management of risk; viability of facilities; national and provincial agencies; private commercial ventures; and future trends in management. Management strategies will form a major part of the course.
CR: the former RECR 3555 and the former PHSD 3550

3565 Tourism/Commercial Recreation will examine behavioural factors influencing tourism; promotion of commercial recreation attractions;

provincial strategies in travel and tourism; problems of leisure travel; stability of entrepreneurial ventures in tourism; and research and planning strategies relevant to commercial ventures.

CR: the former RECR 3565 and the former PHSD 3560

4555 Leadership and Supervision in Recreation is need, selection, training and supervision of leaders in recreation. Certification, standards and professional organizations. Evaluation of leadership - materials and methods used. Practical exposure to roles of both leader and supervisor through seminar and related fieldwork.
CR: the former RECR 4555 and the former PHSD 4550

4575 Recreation Ethics, Issues and Trends will explore contemporary trends and issues identified by governments and recreation practitioners and the way in which these issues influence the delivery of leisure services.
CR: the former RECR 4575 and the former PHSD 4570

10.19 Humanities

Humanities courses are designated by HUMN.

1001 Humanities and the Contemporary World is a study of the relevance of humanities disciplines and texts to contemporary cultural forms and practices such as movies, popular music, television, comic books, graphic novels, professional sports, etc. The course will also focus on the mastery of composition skills. The course is a designated writing (W) course.

1002 Six Texts That Changed the World is a study of six humanities texts which have helped to shape Western Civilization. The course is a designated writing (W) course.
PR: HUMN 1001

2001 Humanities in the Ancient World is a study of major cultural developments and achievements in art, literature, religion, philosophy, and science in the ancient Mediterranean during the period 4000 BCE to 400 CE. The course explores the great ancient civilizations of the Near East, Greece, and Rome and their influence on the shaping of Western culture and society. The course is a designated writing (W) course.
PR: HUMN 1001 and 1002

2002 Thought and Society in the Medieval World this course examines the development of medieval civilization through the consideration of thought, art, spirituality and politics. Medieval culture will be examined largely through primary texts centered on a series of key themes and historical-cultural watersheds. These texts will be contained in a course pack designed for this course. The course is a designated writing (W) course.
PR: HUMN 1001 and 1002

2010 Themes in Humanities (Interdisciplinary Seminar) is a seminar course in which themes have common interest to the Humanities will be discussed from the perspective of the various disciplines. The course is a designated writing (W) course.
CR: the former HUMN 3000
PR: HUMN 1001 and 1002

3001 Humanities in the Early Modern Period is a study of the major cultural developments and achievements in art, literature, religion, philosophy, and science in Western Europe during the period 1450-1650. The course is a designated writing (W) course.
PR: 9 credit hours in Humanities with at least 3 credit hours at the 2000-level

3002 Humanities in the Modern World examines emerging conceptions of the modern self and its expression in philosophy, science, political revolution and constitution, visual art and literature during the period 1650-1850. The course is a designated writing (W) course.
PR: 9 credit hours in Humanities with at least 3 credit hours at the 2000-level

3010 The Nature of Interpretation in Humanities introduces students to central concepts and debates concerning the sorts of interpretation that distinguish Humanities as a discipline. Students gain familiarity with contemporary and historical approaches. The course is a designated writing (W) course.
PR: 9 credit hours in Humanities with at least 3 credit hours at the 2000-level

3020 Humanities and the Environment is an examination of the human understanding of the natural world from the perspectives of the literary arts, the visual arts, and music and religion. It is a designated writing (W) course.
PR: 9 credit hours in Humanities with at least 3 credit hours in at the 2000-level

3021 East Meets West - Asian Traditions and the Humanities is an examination of the influence of Asian currents of thought in the West in literature, philosophy, the visual arts, music and popular culture. This is a designated writing (W) course.
PR: 9 credit hours in Humanities with at least 3 credit hours in at the 2000-level

3100-3109 Special Topics in Humanities has a range of special topics in Humanities.

PR: 9 credit hours in Humanities with at least 3 credit hours at the 2000-level

4001 Humanities Postmodern is a study of major developments in the evolution of culture, thought, arts, science, and beliefs in the Western world from the nineteenth century to the present day. The course is a designated writing (W) course.

PR: 12 credit hours in Humanities with at least 3 credit hours at the 3000-level

4010 Authors, Events, and Texts is a seminar course in which themes having common interest to the Humanities will be discussed from the perspectives of the various disciplines. This course focuses on close readings of its subject matter and is distinct from theme-oriented courses in Humanities. The course is a designated writing (W) course.

CR: the former HUMN 4000

PR: 24 credit hours in Humanities including HUMN 3010

4020-4029 Special Topics has a range of special topics in Humanities.

4950 Independent Project (Directed Research) will complete an independent research project under the supervision of a faculty member or members. Topics must have the approval of the Program Chair of Humanities.

PR: 24 credit hours in Humanities including HUMN 3010

10.20 Mathematics and Statistics

At most 9 credit hours in Mathematics will be given for courses completed from the following list subject to normal credit restrictions: Mathematics 1000, 1031, 1050, 1051, 1080, 1081, 1090, 1150, 1151.

Mathematics courses are designated by MATH and Statistics courses are designated by STAT.

102F, 103F and 104F Mathematics Skills Program are non-credit courses intended for those students who either have a weak background in mathematics or are returning to the subject after some years. The program enables students to master mathematical operations such as those involving whole numbers, fractions, decimals, percents, integers, exponents, linear equations, algebraic and rational expressions, formulas, graphs, systems of linear equations, basic trigonometry, exponents and radicals, and quadratics.

1000 Calculus I is an introduction to differential Calculus including logarithmic, exponential and trigonometric functions.

CR: MATH 1081

LH: 1.5

PR: MATH 1090 or a combination of placement test and high school Mathematics scores acceptable to the Department

1001 Calculus II is an introduction to integral Calculus with applications. In addition to three lectures per week there will be a one and one-half hour problem lab.

CR: the former Engineering 1411 and the former Engineering 2413

PR: MATH 1000 or MATH 1081

1050 Finite Mathematics I covers topics which include sets, logic, permutations, combinations, and elementary probability.

CR: the former MATH 1150. With the exception of those already admitted at the time of registration in this course to a Bachelor of Education program that requires this course, students who already have obtained credit for 6 or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course nor can they receive credit for it

LC: 4

PR: a combination of placement test and high school mathematics scores acceptable to the Department, or MATH 103F

1051 Finite Mathematics II covers topics which include elementary matrices, linear programming, elementary number theory, mathematical systems and geometry.

CR: the former MATH 1151. With the exception of those already admitted at the time of registration in this course to a Bachelor of Education program that requires this course, students who already have obtained credit for 6 or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course nor can they receive credit for it.

LH: 1.5

PR: a combination of placement test and high school mathematics scores acceptable to the Department, or MATH 103F

1090 Algebra and Trigonometry (F and W) provides students with the essential prerequisite elements for the study of an introductory course in calculus. Topics include algebra, functions and their graphs, exponential and logarithmic functions, trigonometry, polynomials, and rational functions.

CR: MATH 1000, MATH 1001, MATH 1080, or MATH 1081

LH: 3

PR: a combination of placement test and high school Mathematics scores acceptable to the Department or MATH 104F

UL: credit will not be given for MATH 1090 if any of MATH 1000, MATH 1001, the former MATH 1080, or the former MATH 1081 have been completed

2000 Calculus III is a study of the differential calculus of functions of two variables, an introduction to convergence of infinite sequences and series.

CR: the former Engineering 1411, the former Engineering 1412, the former Engineering 2412, the former Engineering 2413

LH: 1.5

PR: MATH 1001

2050 Linear Algebra I includes the topics of Euclidean n -space, vector operations in 2- and 3-space, complex numbers, linear transformations on n -space, matrices, determinants, and systems of linear equations.

CR: the former Engineering 2402

PR: A combination of placement test and high school Mathematics scores acceptable to the Department or 3 credit hours in first year Mathematics courses.

2051 Linear Algebra II includes the topics of real and complex vector spaces, basis, dimension, change of basis, eigenvectors, inner products, and diagonalization of Hermitian matrices.

PR: MATH 1000 and MATH 2050

2090 Mathematics of Finance covers the following topics: simple and compound interest and discount, forces of interest and discount, equations of value, annuities and perpetuities, amortization schedules and sinking funds, bonds and other securities, contingent payments.

PR: MATH 1001

2130 Technical Writing in Mathematics is a project oriented course combining mathematical investigation and technical writing. By using computer programming, graphical and typesetting tools, students will explore mathematical concepts and will produce technical reports of professional quality. The latter will combine elements of writing and graphics to convey technical ideas in a clear and concise manner.

PR: MATH 1001 and (Computer Science 1510 or 1710 or 2710 or 2602 or permission of the Head of Department).

2320 Discrete Mathematics are basic concepts of mathematical reasoning, sets and set operations, functions, relations including equivalence relations and partial orders as illustrated through the notions of congruence and divisibility of integers, mathematical induction, principles of counting, permutations, combinations and the Binomial Theorem.

CR: the former Computer Science 2740

PR: MATH 1001 or MATH 2050

2500 Statistics for Business and Arts Students is descriptive statistics (including histograms, stem-and-leaf plots and box plots), elementary probability, discrete random variables, the binomial distribution, the normal distribution, sampling distribution, estimation and hypothesis testing including both one and two sample tests, paired comparisons, chi-square test, correlation and regression. Related applications.

CR: STAT 2510, STAT 2550, Psychology 2910, Psychology 2925 and the former Psychology 2900.

LH: 1.5

PR: MATH 1000 or 6 credit hours in first year courses in Mathematics or registration in at least semester 3 of a Bachelor of Nursing program or permission of the Head of Department.

2550 Statistics for Life Science Students is an introduction to basic statistics methods with an emphasis on applications to life sciences and, in particular, to biology. Material includes descriptive statistics, elementary probability, binomial distribution, normal distribution, sampling distribution, estimation and hypothesis testing (both one and two sample cases), chi-square test, one way analysis of variance, correlation and simple linear regression.

CR: STAT 2500, STAT 2510, Psychology 2910, Psychology 2925 and the former Psychology 2900.

LH: 1.5

OR: Statistical computer package will be used in the laboratory, but no prior computing experience is assumed

PR: MATH 1000 or the former MATH 1081

3000 Real Analysis I (F and W) is proof techniques, structure of \mathbb{R} , sequences, limits, continuity, uniform continuity, differentiation.

CR: the former MATH 2001

LH: 1

PR: MATH 2000

3202 Vector Calculus deals with functions of several variables. Lagrange multipliers, vector valued functions, directional derivatives, gradient, divergence, curl, transformations, Jacobians, inverse and implicit function theorems, multiple integration including change of variables using polar, cylindrical and spherical co-ordinates, Green's theorem, Stokes' theorem, divergence theorem, line integrals, arc length.

CR: Physics 3810
PR: MATH 2000 and MATH 2050

3260 Ordinary Differential Equations I is direction fields, equations of first order and first degree, higher order linear equations, variation of parameters, methods of undetermined coefficients, Laplace transforms, systems of differential equations. Applications include vibratory motion, satellite and rocket motion, pursuit problems, population models and chemical kinetics.

CR: the former Engineering 3411
PR: MATH 2000

3320 Abstract Algebra is an introduction to groups and group homomorphisms including cyclic groups, cosets, Lagrange's theorem, normal subgroups and quotient groups, introduction to rings and ring homomorphisms including ideals, prime and maximal ideals, quotient rings, integral domains and fields.

PR: MATH 2320

3330 Euclidean Geometry is classical Euclidean geometry of the triangle and circle. The inversion transformation, including the theorem of Feuerbach. Elliptic and hyperbolic geometries.

PR: MATH 2051 or 2320

3340 Introductory Combinatorics includes Topics such as distributions, the binomial and multinomial theorems, Stirling numbers, recurrence relations, generating functions and the inclusion-exclusion principle. Emphasis will be on applications.

PR: MATH 2320

3370 Introductory Number Theory is perfect numbers and primes, divisibility, Euclidean algorithm, greatest common divisors, primes and the unique factorization theorem, congruences, cryptography (secret systems), Euler-Fermat theorems, power residues, primitive roots, arithmetic functions, Diophantine equations, topics above in the setting of the Gaussian integers.

PR: MATH 2320

3410 Mathematical Statistics I is basic probability concepts, combinatorial analysis, conditional probability, independence, random variable, distribution function, mathematical expectation, Chebyshev's inequality, distribution of two random variables, binomial and related distributions, Poisson, gamma, normal, bivariate normal, t, and F distributions, transformations of variables including the moment-generating function approach.

OR: one and a half hour tutorial period weekly
PR: MATH 2000

10.21 Philosophy

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Division.

Philosophy courses are designated by PHIL.

1200 Principles of Philosophy (same as the former PHIL 2200) is a general introduction to the study of Philosophy both as a contemporary intellectual discipline and as a body of knowledge. The course covers the main divisions, fundamental questions and essential terminology of Philosophy through a reading of classical texts (It is a required course for further courses in Philosophy programs. It is intended for students in first year who have completed one semester of university education).

CR: the former PHIL 2200

1600 Philosophy of Human Nature is an approach to philosophical thinking by way of analysis and critique of theories of human nature, classical and modern, and the world views associated with them.

CR: former PHIL 1001

2210 Logic is an introduction to traditional and modern logic open in any year to all students wishing acquaintance with basic logical skills.

2220 Principles of Human Knowledge are various concepts of knowledge - empirical, rational, transcendental, systematic. Their metaphysical grounds and implications. The concept of scientific knowledge; real and abstract entities; objectivity and subjectivity.

2551 Health Ethics examines concepts of health and illness and their ethical implications.

CR: the former PHIL 2803

2561 Environmental Ethics examines concepts of nature and their ethical implications.

CR: the former PHIL 2809

2581 Philosophy of Film introduces some of the central philosophers, topics and themes in the philosophy of film. Topics and themes include: the nature of film image, the relationship between film and "reality", the social/political role and function of film and the nature and value of the

documentary. The course will also consider the representation of broader philosophical idea in film. A film or films will accompany each section.

2701 History of Ancient Philosophy (same as Classics 2701) is a survey of the origin and development of Western philosophy among the Greeks and Romans.

CR: Classics 2701

2702 History of Modern Philosophy is survey of the development of western Philosophy since the seventeenth century.

CR: the former PHIL 3700, the former PHIL 3701, and PHIL 2702

3400 Political Philosophy is leading philosophical ideas concerning the origin and justification of political institutions.

3610 Philosophy and Literature is a study of the interrelationship of thought and imagination in philosophical and literary forms of writing.

3730 Plato is selections from the works of the Greek "lovers of wisdom" - the first philosophers - particularly Plato.

3740 Aristotle is the works and legacy of perhaps the most influential systematic thinker of all time.

3860 Hegel is selections from Hegel's system with emphasis on the nature of dialectical and speculative philosophy and its enormous influence in the present time.

3940 Existentialism is the philosophy and literature of Existentialism from Kierkegaard, Nietzsche and Dostoevsky to Sartre, de Beauvoir and Camus.

CR: PHIL 3940

4250 Seminar in Metaphysics and Epistemology

4700 Seminar in Special Authors and Texts will have topics to be studied announced by the Department.

10.22 Physics

Physics courses are designated by PHYS.

1020 Introductory Physics I is a non-calculus based introduction to mechanics.

CO: Mathematics 1090

CR: PHYS 1050

LH: 3

PR: Level III Advanced Mathematics or Mathematics 1090. It is recommended that students have completed at least one of level II and level III high school physics courses, however this course may be completed by someone who has no physics background provided some extra effort is made.

1021 Introductory Physics II is a non-calculus based introduction to fluids, wave motion, light, optics, electricity and magnetism.

CO: Mathematics 1000

LH: 3

PR: PHYS 1020 or PHYS 1050 and Mathematics 1000.

1050 General Physics I: Mechanics is a calculus based introduction to mechanics. The course will emphasize problem solving.

CO: Mathematics 1000

CR: PHYS 1020

LH: 3

PR: Mathematics 1000, which may be taken concurrently

1051 General Physics II: Oscillations, Waves, Electromagnetism is a calculus based introduction to oscillations, wave motion, physical optics and electromagnetism.

CO: Mathematics 1001

LH: 3

PR: PHYS 1050 or PHYS 1021 or PHYS 1020 (with a minimum grade of 65%) and Mathematics 1001.

2056 General Physics VI: Modern Physics (W) is special relativity, quanta of light, atomic structure and spectral lines, quantum structure of atoms and molecules, nuclei and elementary particles.

CO: Mathematics 1001 and PHYS 1051

CR: PHYS 2750

LH: 3

PR: Mathematics 1001, PHYS 1050 (or PHYS 1020 and PHYS 1021), and PHYS 1051.

2065 Experimental and Computational Physics is laboratory techniques, including experimental method and design. Data analysis, including application of statistics to experimental physics. Numerical analysis using Maple, and an introduction to modelling in physics. Topics are introduced through experiments, complementary lectures, and library research of some of the great experiments of physics.

CO: Mathematics 2050

LH: 3

PR: PHYS 1051 (or the former PHYS 2054), Mathematics 1001, and

Mathematics 2050. Students who have completed PHYS 1020/1021 will be allowed to register for PHYS 2065 with the permission of the Instructor and the Program Chair.

2151 Stellar Astronomy and Astrophysics (W) is atomic structure and spectra. The sun: radiation, energetics, magnetic field. Stars: distance, velocity, size, atmospheres, interiors. Variable stars, multiple stars, clusters and stellar associations. Stellar evolution, interstellar matter, structure of the Milky Way Galaxy. Exterior galaxies, quasi-stellar objects, pulsars. Cosmology.

PR: six credit hours in Mathematics at the first year level

2553 Introduction to Analog and Digital Electronics covers the basics of the analog and digital electronics; direct current circuits, capacitors and inductors, alternating currents, test equipment and measurement, transducers, diodes and transistors, introduction to operational amplifiers, digital basics, digital circuitry and digital analog I/O. This course is a combined lecture/laboratory course with two three-hour sessions scheduled per week.

PR: PHYS 1021 or 1051 and Mathematics 1000 or equivalent

3060 Electricity and Magnetism is point charges; Coulomb's law; electrostatic field and potential; Gauss' law; conductors; magnetostatics; Ampere's law; Biot-Savart law; dielectric and magnetic materials; electrostatic and magnetostatic energy; Lorentz force; time varying fields; Faraday's law; Lenz's law; Maxwell's equations.

CO: Mathematics 3260

LH: 3

PR: PHYS 1051 and Mathematics 3260

3160 Stellar and Galactic Astronomy is the physics and mathematics of stars and galaxies. Orbits and the two-body problem, radiation and matter, theory of stellar atmospheres, structure and evolution of stars. Galaxies: Morphology and kinematics. Milky Way kinematics and structure, large-scale star formation, the distribution of interstellar matter in galaxies. Starburst and active galaxies. An introduction to cosmology.

CR: PHYS 3150 and PHYS 3151

PR: PHYS 2056, 2151 and Mathematics 2000. PHYS 3220 is recommended.

3220 Classical Mechanics I is kinematics and dynamics of a particle. Moving reference systems. Celestial mechanics. Systems of particles.

CO: Mathematics 3260

PR: PHYS 2820 and Mathematics 3260

3820 Mathematical Physics II examines the functions of a complex variable; residue calculus. Introduction to Cartesian tensor analysis. Matrix eigenvalues and eigenvectors. Diagonalization of tensors. Matrix formulation of quantum mechanics. Quantum mechanical spin. Vector differential operators in curvilinear coordinate systems. Partial differential equations of Mathematical Physics and boundary value problems; derivation of the classical equations, separation of variables; Helmholtz equation in spherical polar coordinates.

PR: Mathematics 3260, and PHYS 3810 (Mathematics 3202)

10.23 Political Science

Political Science courses are designated by POSC.

1000 Introduction to Politics is an introduction to basic concepts in the study of politics, power, law, public policy and government, touching on major areas of political ideologies, institutions, and current domestic and international political issues. Suitable for students in all disciplines seeking an introduction to Political Science.

1010 Canadian Political Problems explores some of Canada's most pressing and interesting political issues. This course profiles important political problems facing federal and provincial politicians and society. Suitable for students in all disciplines who have an interest in Canadian politics and who wish to develop a basic awareness of Canadian government.

1020 Issues in World Politics explores some of the world's most pressing and interesting political issues. This course profiles important political problems, such as a power struggle within a particular country, a controversial topic that affects an entire continent, or a major crisis that has implications for inhabitants around the world. Suitable for students in all disciplines who have an interest in international politics.

2200 Introduction to International Politics is an examination of the "building blocks" of international politics including determinants, means, processes and ends. Emphasis is on the post-1945 period.

2300 Introduction to Comparative Politics is an introduction to comparative politics and techniques of comparative analysis across political jurisdictions. This course focuses on the differences between, and similarities among, a variety of countries and systems of government.

2500 Introduction to Political Behaviour is an introduction to classics and controversies in the understanding of political behaviour. Topics include

political culture and individual behaviour, public opinion, voting and elections, political participation, psychological dimensions of activism, and social movements.

2600 Introduction to Public Policy and Administration outlines major concepts in, and issues relating to, the fields of public policy and administration. Examines and assesses government organization and decision-making. Topics may also include social, economic and health policy.

CR: the former POSC 3540

2800 Introduction to Canadian Politics and Government is an introduction to the structure and operations of institutions of Canadian government and the nature of political actors. Topics to be examined may include the constitution, federalism, parliament, political parties, political culture and elections.

CR: the former POSC 2710

3550 Politics and the Environment is an examination of the environmentalist movement, interest groups, and green parties; the impact of environmentalism on conventional parties and public opinion; and the dynamics of support for and opposition to the achievement of environmentalist objectives.

3731 Environmental Policy is an examination of the formation, implementation, and impact of public policies concerning the environment including an examination of different policy approaches and the problems of environmental regulation.

10.24 Psychology

Psychology 1000 and Psychology 1001 are prerequisites for all Psychology courses.

1000 and 1001 Introduction to Psychology is an introduction to Psychology as a biological and social science. Topics shall include research methodology, physiological processes, perception, learning, memory and cognition, human development, animal behaviour, emotion, motivation, consciousness, personality and individuality, psychological disorders and treatment, and social psychology.

PR: Psychology 1000 is a prerequisite for Psychology 1001

2925 Research Methods and Data Analysis in Psychology I will cover basic research methods and supporting statistical concepts and techniques. Basic methods will include observational techniques, correlational studies, and surveys. Supporting statistical concepts will include populations and samples, measures of central tendency and variability, basic probability, correlation, simple linear regression and validity and reliability. Supporting statistical techniques will include producing tables and graphs, and the calculation and interpretation of measures of central tendency, variability, probabilities, correlation, and simple linear regression. Students will also learn how to write a description of a simple study in basic APA style, and how to use a statistical package to analyse surveys and calculate correlation. Basic ethical principles in conducting research will be introduced. This course includes a weekly laboratory.

CR: Psychology 2910, Statistics 2500, Statistics 2510, Statistics 2550, and the former Psychology 2900

2950 Research Methods and Data Analysis in Psychology II will cover basic experimental methods and supporting statistical concepts and techniques. Basic designs will include one factor designs (independent and repeated measures). Supporting statistical concepts will include statistical sampling distributions (t and F), internal and external validity, hypothesis testing, and simple interactions. Supporting statistical techniques will include independent and repeated measures t-tests, one-factor independent and repeated measures ANOVA, and selected multiple comparisons techniques. Students will also learn how to write a description of an experiment in APA style, how to critically analyse a report of an experiment, how to use and interpret a statistical package to analyse experimental data, and how to conduct literature searches.

CR: the former Psychology 2901, Statistics 2501, and Statistics 2560

LH: a weekly laboratory

PR: Psychology 2925 or equivalent

3950 Research Methods and Data Analysis in Psychology III will cover advanced research methods, including survey methods, and supporting statistical concepts and techniques. Designs will include single factor designs and multi-factor designs with both random and fixed factors. Supporting statistical concepts will include analysis of variance (ANOVA) from a linear model perspective, statistical power, and multiple regression, including model building. There may be a general introduction to multivariate statistical techniques. Ethical issues in research will be discussed in detail. Students will be required to design and carry out at least one research project from the design to the writeup stage, including an ethics review.

CR: Psychology 3900, Statistics 3520, the former Psychology 3520

LH: a weekly laboratory

PR: Psychology 2950 or equivalent

10.24.1 Survey Courses

2025 Survey of Developmental Psychology is a survey of the cognitive, social, and personality development of people. Development will be tracked from the prenatal stage to old age. Topics to be studied shall include: research methodology, genetics, prenatal development, environmental effects during prenatal development, attachment, emotional development, language development, intelligence, cognitive development, socialization, sex-roles and gender identity, adolescence, adulthood and aging.
CR: Psychology 2010 and Psychology 2011

2125 Survey of Social Psychology is a survey of how the behaviour of individuals is influenced by others. Topics to be studied shall include: methodology and ethics, social cognition, social perception, attitude formation and change, interpersonal attraction, social influence, group processes and leadership. Additional topics may include: aggression, prosocial behaviour, sex and gender, environmental effects, organizational behaviour, health, stress and psychology and the law.
CR: Psychology 2100 and Psychology 2120

2225 Survey of Learning is a survey of learning phenomena and learning theories. Topics to be studied shall include: the evolutionary context of learning, habituation and sensitization, imprinting, Pavlovian conditioning, instrumental learning, generalization and discrimination in learning and neural mechanisms of learning.
CR: Psychology 2240 and the former Psychology 2250

2425 Survey of Cognitive Psychology is a survey of how humans process and retain information. Topics to be studied shall include: perception and pattern recognition, attentional processes and memory. The influence of stored information on selected behaviours will be considered. Selected behaviours may include language processing, concept formation, problem solving, decision making and practised and skilled performance.
CR: Psychology 2440 and Psychology 3450

2625 Survey of Personality is a survey of the theories of personality and relevant selected areas of research in the area of personality. Issues related to the application of this information to understanding abnormal behaviour will also be discussed. Theoretical systems covered will include: psychodynamic theory, behaviourism and cognitive-behavioural theory, humanism, traits and dispositions, social learning theory, psychological constructivism, information processing and biological theories of personality.
CR: Psychology 2610, the former Psychology 2620, and the former Psychology 2200.

2825 Survey of Biological Psychology is a survey of the biological bases of behaviour. Topics to be studied shall include: the structure and function of the nervous system, sensory structures and sensory coding, homeostasis, emotions, circadian rhythms and sleep, sexual behaviour, psychopharmacology, consciousness and language, behavioural evolution and behaviour genetics.
CR: Psychology 2810 and the former Psychology 2850

10.24.2 Contemporary Issues Courses

3025 Contemporary Issues in Developmental Psychology examines in depth one or more areas of research within developmental psychology. Some topics that may be examined include cognitive development, social development, developmental psychopathology, and child eyewitness testimony.
PR: Psychology 2025 and Psychology 2925

3040 Contemporary Issues in the Psychology of Death and Dying uses psychological research, theory, and clinical experience to study death, dying and bereavement throughout the life cycle. Some selected topics include understanding death, the process of dying, care of the dying, medical ethics, suicide, and the psychological impact of life-threatening conditions. In addition, trauma, grief, and bereavement in children, adolescents, and adults are explored.
PR: Six credit hours in 2000 level psychology courses

3125 Contemporary Issues in Social Psychology examines in depth one or more areas of research within social psychology. Some topics that may be examined include the psychology of prejudice, criminal behaviour, social influence, and aggression.
PR: Psychology 2125 and Psychology 2925

3126 Contemporary Issues in the Psychology of Women explores the psychology of women from varying cultural perspectives, such as racial, sexual orientation, age and class. Topics include the history of women in psychology, women's development across the life span, women and social relationships, and violence against women.
PR: Six credit hours in 2000 level psychology courses

3225 Contemporary Issues in Learning examines in depth one or more areas of research in learning and cognition. Topics may include associative learning, instrumental conditioning, discrimination learning, category formation, memory, navigation, social cognition and learning, intelligence, concepts of time and number, self-awareness and communication and

language.

PR: Psychology 2225 and Psychology 2925

3226 Contemporary Issues in the Psychology of Education is an introduction to the application of psychology to issues in education in a variety of settings. It examines the theoretical and applied aspects of learning and cognitive development; motivation; personal and social development; and evaluation, measurement, and assessment.
PR: Six credit hours in 2000 level psychology courses

3325 Contemporary Issues in Sensation and Perception examines the functioning of human sensory systems and how physical stimuli are transformed into signals that can be understood by the nervous system. In both human and animal models how the brain receives and processes information from the visual, auditory, gustatory, olfactory, and somatosensory systems may be examined. Basic psychophysics may also be examined.
PR: Psychology 2925 and Psychology 2425 or Psychology 2825

3425 Contemporary Issues in Memory and Cognition uses current psychological theories and research to examine aspects of human memory and cognition. Topics may include, but are not limited to, perception and pattern recognition, attentional processes, knowledge representation, working and long term memory, language, problem solving, decision making, expert performance, and abnormalities in cognition.
PR: Psychology 2425 and Psychology 2925

3525 Contemporary Issues in Emotion introduces the biological, cognitive, and social influences on emotions. Attention is given to unconscious (automatic) processes, nonverbal emotional expressions, and understanding specific emotions. Contemporary research may be highlighted in such areas as the effects of hormones, emotional intelligence, the consequences of problems in emotional development, or emotions in therapy.
PR: Psychology 2925 and any Survey Course in Psychology from the Grenfell Campus Psychology Program

3625 Contemporary Issues in Personality examines in depth one or more areas of research with personality psychology. Some topics that may be examined include stress and health, psychoanalysis, psychology of motivation, and personality in work organizations.
PR: Psychology 2625 and Psychology 2925

3626 Contemporary Issues in Abnormal Psychology explores the definition of abnormal behaviour, clinical assessment, classification, and diagnosis. The core theoretical perspectives on psychological disorders are examined. For each disorder the diagnostic criteria, etiology, treatment, and prognosis is presented. This course enhances the students' ability to think critically about issues pertaining to mental health and illness.
CR: Psychology 3640, Psychology 3650, and the former Psychology 3600
PR: Psychology 2625 and Psychology 2925

3627 Contemporary Issues in Psychotherapy introduces students to the major theories, concepts and practices of contemporary approaches to psychotherapy. It includes the exploration of ethical and professional issues in professional practice.
PR: Psychology 2625 and Psychology 2925

3628 Contemporary Issues in Psychological Testing and Measurement explores the development and application of tests and techniques for psychological assessment. A review of test construction and evaluation examines methods of item analysis, reliability, validity, and test norms. The major domains of applied psychological assessment are examined. Ethical issues in psychological assessment are presented throughout the course.
PR: Psychology 2950 and any one of Psychology 2025, Psychology 2425, Psychology 2625.

3725 Contemporary Issues in Animal Behaviour includes one or more areas of research in animal behaviour and/or evolutionary psychology. Topics may include history of animal behaviour and/or evolutionary psychology, genetic analysis of behaviour, evolutionary theory and natural selection, development of behaviour, sensation and perception, orientation, foraging, antipredator behaviour, learning, cognition, sociality and dispersion, sexual reproduction and sexual selection, parental care and mating systems, altruism, aggression, communication and social dominance.
PR: Psychology 2925 and Psychology 2825 or Psychology 2225

3825 Contemporary Issues in Physiological Psychology includes one or more areas of research in neuroscience and/or behavioural neuroscience. Topics may include neurophysiology and neuroanatomy, methodology including brain imaging, developmental disorders, sensory-perceptual and motor systems, physiological basis of attention, memory, language, emotion and spatial behavior, alterations of consciousness, neurological disorders, plasticity, recovery and rehabilitation and neuropsychological assessment.
PR: Psychology 2825 and Psychology 2925

10.24.3 Senior Courses

4910 Systems of Psychology is a study of paradigms and explanations in contemporary psychology in the context of their historical antecedents.

PR: at the St. John's campus, 30 credit hours in Psychology courses required in the majors program and admission to a Major in Psychology or Behavioural Neuroscience or, at the Grenfell campus, 30 credit hours in Psychology courses including Psychology 3950

4925 Senior Seminar in Psychology is weekly seminars for faculty and senior students in Psychology. Current issues in academic and professional psychology shall be discussed.

PR: 30 credit hours in Psychology including Psychology 3950 or permission of the Chair of Psychology

4950 Independent Project in Psychology is under the supervision of a Faculty member where students will independently carry out approved projects and prepare reports of their findings.

CR: Psychology 4951

PR: 30 credit hours in Psychology including Psychology 3950 or permission of the Chair of Psychology

4951 Honours Project in Psychology I is under the supervision of a Faculty member and each student will independently review an area of psychology and prepare a thesis proposal for further investigation.

CR: Psychology 4951

PR: 30 credit hours in Psychology including Psychology 3950 or permission of the Chair of Psychology and admission to the Honours program in Psychology

4959 Honours Project in Psychology II is a continuation of Psychology 4951. Under the supervision of a Faculty member, each student will independently carry out an approved project which will result in an honours thesis.

PR: Psychology 4951 or the permission of the Chair of Psychology and admission to the Honours program in Psychology

10.24.4 Non-Restricted Courses

2150 Introduction to Forensic Psychology will provide an in-depth overview of the relationship between psychology and the law. A variety of topics will be discussed and critically evaluated, including the use and misuse of psychology-based investigative methods such as offender and geographic profiling, detection of deception, investigative interviewing, eyewitness testimony, jury decision-making, corrections and treatment, risk assessment, and criminal responsibility.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2800 Drugs and Behaviour is an examination of the neurophysiology of drug action, the measurable effect of drugs on experimentally controlled behaviour, and a survey of information available on common self-administered drugs and their immediate and long-term effects.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

3533 Sexual Behaviour covers the most important aspects of human sexuality with a psychology theory and research framework. The course will examine the biological, behavioural and socio-cultural bases of the human sexual response. Topics include sexual interaction and communication, contraception, sexually transmitted infections, reproduction, sexual orientation, transgender and intersex, variations in sexual behaviour, sex and gender, sexual dysfunction and therapy, and sexual coercion.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

10.25 Religious Studies

Unless otherwise specified, Religious Studies courses do not have prerequisites. Students who register in a 3000- or 4000-level course are encouraged, however, to make sure that they have adequate preparation for that course, preferably by having completed a first- or second-year course in the field.

Religious Studies courses are designated by RELS.

1000 The Religions of the World is an introduction to the basic beliefs and practices of the world's great religions.

CR: the former RELS 2010

1032 Introduction to Asian Religions and Culture is a broadly based survey course introducing students to the religions, culture, and societies of Asia. Traditions explored may include those of India (Hinduism, Buddhism, Sikhism, Jainism), China (Daoism, Confucianism, Buddhism), Japan (Shinto, Zen Buddhism), and Korea.

2013 Introduction to Christianity is a study of the Christian tradition, its development and variety. The course will include an examination of the beliefs and practices of both Eastern and Western Christianity and a study of

the main differences among the major Western denominations.

2050 Introduction to the Old Testament is an introduction to the historical background, literary structure, and content of the Old Testament. Emphasis will be placed on the authorship and dating of the various texts that comprise the Old Testament, as well as on major themes, figures, and events. This course may qualify as a Research/Writing course. Consult each semester's registration materials for the R/W designation.

2051 Introduction to the New Testament is an introduction to the history and literary structure of the documents comprising the New Testament. Emphasis will be placed on the major themes found in these documents and on the distinctiveness of approach of the individual writers.

2350 Religious Institutions (same as Anthropology 2350) is a comparative study of religious institutions and beliefs, calendrical feasts and solemnities, religious roles and hierarchies, ritual innovation and revitalization.

CR: Anthropology 2350, the former Sociology/Anthropology 2350, the former Sociology 2350

2400 Introduction to Buddhism is a study of the history of the Buddhist tradition in India and China, the development of the main lines of Buddhist thought, and the nature of the Chinese transformation of Buddhism.

CR: the former RELS 3400

2410 Introduction to Hinduism involves a study of the religious thought and history of India, the literature of Hinduism, the major thinkers in Hindu philosophy, and the role of Hinduism in the culture and society of India.

CR: the former RELS 3410

2610 Introduction to Religious Ethics is an introduction to religious ethics through the systematic study of selected writers and issues in biomedicine, human sexuality, and social justice. Possible topics for discussion include euthanasia, abortion, poverty, and unemployment.

CR: the former RELS 2600 and the former RELS 2601

3010 Greek Religion (same as Classics 3010) is a study of the role of religion in the private and public life of the Greek world.

CR: Classics 3010 and the former RELS/Classics 3121

3020 Roman Religion (same as Classics 3020) is a study of the role of religion in the private and public life of the Roman world.

CR: Classics 3020 and the former RELS/Classics 3121

3200 Jesus: His Life and Teaching is a study of the ministry and thought of Jesus of Nazareth as contained in the Gospels and other New Testament writings. Attention will be given to the methods and conclusions of recent scholarship as applied to his principal teachings and to the study of the historical Jesus.

3210 Paul and His Writings is a study of the Pauline writings and an appraisal of the contribution to Christianity of his mission and theology on the basis of New Testament and other relevant material. Particular attention will be given to such related themes as salvation, reconciliation, grace, and justification.

3310 Judaism at the Beginning of the Christian Era will explore the developments in Jewish thought, institutions, beliefs, and practices during the time when Greek and Jewish cultures encountered one another and in which Jesus of Nazareth lived.

CR: the former RELS 3220

3401 Zen, Buddhist Meditation, and Buddhist Psychology examines the relationship between meditation and theories of human psychology in Buddhism from its origins to its formulation in Zen.

3820 Religion and the Arts (same as Visual Arts 3820) is an examination of the role of art in the expression of religious ideas, together with a study of specific religious themes and concerns in one or more of the following: literature, film, music, painting, sculpture and dance.

CR: Visual Arts 3820

3831 Religious Themes in Contemporary Songwriting is a study of religious themes in contemporary songwriting through the in-depth examination of the work of a selection of contemporary songwriters. The course will explore how religious questions and themes are handled in contemporary song and explore how song as an artistic medium expresses religious meaning. Songwriters to be explored may include the following: Bob Dylan, Bob Marley, Joni Mitchell, Leonard Cohen, Van Morrison, Tori Amos, Nick Cave, Alanis Morissette, Julie Miller, the Louvin Brothers, the Stanley Brothers, Hank Williams, etc.

3880 Spirituality and the Earth is an examination of the attitudes of various religious traditions to the environment. Special attention will be paid to Native American spirituality.

PR: 3 credit hours in Religious Studies beyond the first-year level or departmental permission

10.26 Science

Science courses are designated by SCI.

3000 Concepts, Methods and Issues in Science I is the origin of the universe; formation of matter and its nature; origin of the solar system; evolution of the earth and its biosphere; theories of origins of life; mechanisms of evolution and speciation.

PR: at least 45 credit hours

UL: may not be used towards fulfilment of the 78 Science credit hours required for the Bachelor of Science Degree

3001 Concepts, Methods and Issues in Science II is genetic and molecular engineering; behavioural biology; genetic determinism versus environmentalism; artificial intelligence. The paradoxes of the quantum world; the scientific method; science and pseudoscience.

PR: completion of at least 45 credit hours

UL: may not be used towards fulfilment of the 78 Science credit hours required for the Bachelor of Science Degree

4000 Senior Science Seminar is a review of current topics in science discussed in a seminar format. Seminars will be presented by faculty, students and guest speakers. This will be a designated Writing Course.

PR: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more.

4950 Senior Project requires students to work either individually or in pairs on developing a poster presentation on specific scientific topics of current interest. This will require a detailed proposal, followed by the necessary relevant research in appropriate journals and Internet sources. Participants in this course will organize a mini-conference, to be held at the end of semester, at which these posters will be presented. Where appropriate, students will be encouraged to integrate knowledge from at least two different scientific disciplines in the development of this project. This will be a designated Writing Course.

PR: This course is restricted to students in the General Science program who have completed 80 credit hours or more.

4951 Honours Project I is the preparation of a project proposal under the guidance of a faculty supervisor, including a comprehensive bibliographical review, with the aim of producing a well-annotated Bibliography. This will be a designated Writing Course.

PR: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more.

4959 Honours Project II is a continuation of SCI 4951. Under the supervision of a Faculty Advisor, students will prepare an Honours Thesis. The preparation of this will entail some original research, and will require the student to integrate knowledge from at least two disciplines. This will be a designated Writing Course.

PR: SCI 4951 and permission of the Program Chair

10.27 Social/Cultural Studies

Social/Cultural Studies courses are designated by SCCU.

2244 The Graphic Novel - Historical, Cultural and Literary Contexts (same as English 2244) examines the historical, cultural and literary impact of the Graphic Novel; investigates its continuing development; and introduces students to significant works within the genre.

CR: English 3842, English 2244

PR: 6 credit hours first-year English, one of Folklore 1000, Anthropology 1031, or Sociology 2000

4000 Interdisciplinary Seminar in Social/Cultural Studies is conducted through faculty presentations, assigned readings and group discussions and students will learn how to engage and evaluate the broad debates within Anthropology, Folklore and Sociology. Rather than focus on narrow substantive material from the disciplines, this seminar will emphasize the larger shifts and challenges which have led to new topics and methods of analysis within the social sciences.

PR: completion of 90 credit hours or more and admission to Social/Cultural Studies

4100 Issues in Cultural Studies represents an examination of the concept of culture, as it is presently used within Anthropology, Folklore and Sociology. Particular attention will be paid to the area of Cultural Studies, and the ways in which that approach has re-energized an interest in the role of culture in modern society.

PR: completion of 90 credit hours or more and admission to Social/Cultural Studies

4950 Independent Project in Social/Cultural Studies is under the supervision of a faculty member and students will independently carry out approved projects of direct relevance to social and cultural phenomena, and prepare reports of their findings.

PR: SCCU 4000

10.28 Sociology

Sociology 1000 or Sociology 2000 are prerequisites for all further Sociology courses except Sociology 2250 and those cross-listed with Anthropology. Credit is not given for both Sociology 1000 and Sociology 2000. Before taking 3000-level courses, students should have taken at least 6 credit hours in courses below the 3000 level. Courses at the 4000 level will normally be taken by students who have previously taken at least 9 credit hours in courses at the 3000 level.

The following courses, cross-listed with Anthropology and identified by the prefix "S/A", are also taught at the introductory level: 2200, 2210, 2220, 2230, 2240, 2260, 2270, 2280, and 2350. A minimum of two of these courses is prerequisite to further cross-listed courses. These courses are open to be taken as first courses or may be taken to follow up a Sociology introductory course.

Sociology courses are designated by SOCI.

2000 Introduction to Sociology is an introduction to the concepts, principles, and topics of Sociology. This course is restricted primarily to first-year students.

CR: SOCI 2000

2100 Social Inequality introduces the subject of social inequality and stratification, examines social inequality in historical perspective, reviews major theories about social inequality, and considers key social developments in contemporary societies in the area of social inequality.

2120 Technology and Society is an examination of the role of technology in society. Topics may include the emergence of modern technological society, the impact of new technologies on social organization and culture and the institutionalization of science and the production of scientific knowledge. The course also explores the ideological functions of science and technology in advanced industrial societies as well as the question of "the domination of nature".

2200 Communities (S/A) is an interdisciplinary examination of the concept of Community. Readings will include community studies from North America and Europe.

2210 Communication and Culture (S/A) is an examination of verbal and non-verbal systems of communication, and the influence of language on human cognition.

2230 Newfoundland Society and Culture (S/A) (same as Folklore 2230) is the Sociology and Anthropology of the Island of Newfoundland. The focus is on social and cultural aspects of contemporary island Newfoundland.

CR: Folklore 2230

2240 Canadian Society and Culture (S/A) is a descriptive and analytic approach to the development of Canadian society and culture.

2250 Changing World is sociological analysis of contemporary world issues and social problems.

2260 War and Aggression (S/A) is critical review of ethological, psychological and sociological approaches to the understanding of violence and organized aggression.

2270 Families (S/A) is a comparative and historical perspective on the family as a social institution, the range of variation in its structure and the determinants of its development.

2280 The City (S/A) examines varieties of urban life around the world and through history. The city as habitat and as spectacle.

2350 Religious Institutions (S/A) (same as Religious Studies 2350) is comparative study of religious institutions and beliefs, calendrical feasts and solemnities, religious roles and hierarchies, ritual innovation and revitalization.

CR: Religious Studies 2350

2610 Socialization is an examination of the social and social psychological processes by which individuals become members of human groups.

CR: the former SOCI 4610

3040 Introduction to the Methods of Social Research has as its objectives (1) to introduce basic concepts underlying research in the social sciences, and (2) to make students familiar with some techniques that are useful in the analysis of a wide range of sociological data and that represent a good foundation for later study of more advanced techniques.

3140 Social Movements (S/A) is an examination of social movements which challenge prevailing social institutions and cultural values. Social movements considered may include religious cults and sects, millenarian movements, attempts at utopian and communal living, feminism, labour and revolutionary movements.

3150 Classical Social Theory is an introduction to the work of major 19th- and early 20th-century social theorists including Marx, Durkheim, Weber and Freud.

3160 Contemporary Social Theory is an exploration of selected topics from issues in contemporary social theory, including theories of feminism, the state, the environment, culture, organization, and communication.
PR: SOCI 3150

3210 Persistence and Change in Rural Society (S/A) assesses the social and cultural significance of the rural experience in the face of expanding urbanism. Topics may include (a) the nature of rural society in Canada, (b) similarities between Canadian and European rural society, c) utopian and anarchist movements in rural life, and (d) reaction of agricultural populations to external influence.

3290 Deviance is major sociological theories and methodological techniques central to the study of deviance and crime are outlined and evaluated. The distribution, attributes and explanations of a variety of forms of deviance are examined, which may include violence, sexual deviance, delinquency, addiction, mental disorder, theft, organized crime, political deviance and corporate deviance.

3314 Gender and Society (S/A 3314) is an examination of biological, psychological, social and cultural aspects of gender, with an emphasis upon contemporary directions of change in sex roles.

3395 Criminal Justice and Corrections provides an introduction to the operation of the Canadian criminal justice system. Topics to be examined may include the origin, nature and utilization of criminal law, policing, adult and juvenile courts, sentencing, correctional institutions, and community based corrections (probation, parole, community service). Criminal justice policy formulation and application are also discussed.
PR: SOCI 3290

3731 Sociology of Culture is a comparative examination of major contemporary sociological texts on the relationship between culture, broadly understood as symbolic systems, and social structure.

4071 Social and Cultural Aspects of Health and Illness covers topics which may include: cultural concepts of illness and health; theories of disease causation; relationships between social life and illness patterns; symbolic use of illness; variations in philosophies of treatment and in practitioner/patient relationships; the social organization of medicine. Open to those without normal prerequisites by permission of the Instructor.

4072 Social and Cultural Aspects of Death (S/A) will cover topics which may include: symbolic meanings and values attached to death; cultural and historical variations in the management of death, e.g. treatment of the 'terminally ill', burial rites, the mourning process, and the social fate of survivors, together with the social and psychological meanings of these behaviours. Open to those without normal prerequisites by permission of the Instructor.

10.29 Sustainable Resource Management

Sustainable Resource Management courses are designated by SRMG.

2000 Sustainable Resource Management I: Marine and Terrestrial Environments is an introduction to the interdisciplinary field of sustainable resource management, including marine and terrestrial environments. The course focuses on sustainable practices rather than profit or resource extraction optimization. First Nations' perspectives will also be considered.
PR: Geography 1000 or Geography 1050

2001 Sustainable Resource Management II: Industry-Specific Approaches develops the topics presented in Sustainable Resource Management 2000 with reference to specific industries such as the fishery, forests, mining, oil and gas, soils, and water. This course traces the importance of resources in their historical context both locally and globally.
PR: SRMG 2000

3000 Regional Planning and Management is an introduction to the concepts and processes of regional planning, development, and management. The course addresses planning history and dominant historical contributions to regional, urban, and rural morphology. Planning theory, planning practice, and management strategies are studied.
PR: SRMG 2000 and SRMG 2001

3001 Environmental Planning and Management focuses on balancing economic growth and environmental objectives. Environmental risk analysis, environmental auditing, and First Nations' perspectives will also be studied.
PR: SRMG 3000

3002 Biodiversity focuses on the three dimensions of biodiversity (genetic diversity, species diversity, and ecosystem diversity) and their relationships. Biodiversity will be addressed from an interdisciplinary perspective as genes, species, and ecosystems are of economic and biological interest.
PR: Biology 1001, SRMG 2000, and SRMG 2001

4000 Remote Sensing, Image Interpretation, and Resource Management builds on topics introduced in Environmental Studies 2000 and Environmental Studies 3001. The course addresses the use of remotely-sensed images to track the location, health, and variety of natural resources such as forests, crops, and migratory populations. The lab component of the course employs GIS, GPS, satellite imagery, and aerial photography to address research concerns such as oil spills, forest fire management, iceberg tracking, ocean temperature monitoring, mining exploration, and oil and gas development.
LH: 3
PR: Environmental Studies 2000 and Environmental Studies 3001

4001 Renewable and Non-Renewable Energy Resources presents an interdisciplinary approach to renewable and non-renewable energy resources and their management. The course examines the existing industrial economy's dependence on fossil fuels and studies renewable energy resources such as wind, solar, and geothermal.
PR: SRMG 2000

4002 Risk Assessment and Management is an introduction to risk assessment and management as interdisciplinary processes.
PR: Environmental Studies 4000

4003 Environmental Law is an introduction to laws protecting the environment in Canada and elsewhere. The course examines environmental rules and activities through the study of legal precedents and contexts. Laws and policies of the federal, provincial, and local levels of government (including those pertaining to First Nations) are addressed insofar as they affect the environment. Case studies are employed.
PR: Environmental Studies 1000 and SRMG 2000

4010 Research Seminar in Sustainable Resource Management is the senior seminar in which selected sustainable resource management topics are examined from an interdisciplinary perspective. The seminars are presented on current research and environmental issues by faculty, students, and guest speakers from universities, government, and industry.
PR: Enrolment in the final year of the Sustainable Resource Management program or permission of the program Chair.

4901-4910 Special Topics in Sustainable Resource Management will have topics to be studied announced.
PR: SRMG 2000 and SRMG 2001

4950 Independent Research Project requires that students carry out an approved project on a topic in Sustainable Resource Management and prepare a major paper under the supervision of a faculty member. Students will undertake both a systematic literature review and independent research.
PR: Permission of the Sustainable Resource Management Chair

10.30 Theatre

Theatre courses are designated by THEA.

1000 and 1001 Introduction to the History of Theatre I and II are historical surveys of the art of the theatre. The history of theatre will be studied in terms of the evolution of performance and of the physical theatre from their origins in a variety of social rituals and contexts through to their present plurality of forms. At the same time, the nature and function of the various components of theatrical performance (acting, directing, design, etc.) will be analysed in terms of period philosophical, social, cultural, political and religious contexts. These courses are open to non-theatre students.

1010 Introduction to Acting is an appreciation of the fundamentals of the craft of acting. Basic exercises in voice, movement, relaxation and concentration, improvisation and script analysis will introduce the student to the imaginative and physical skills required by an actor. This is a basic course for both Acting and Stagecraft majors.
AR: attendance is required
OR: 6 hours of studio per week

1020 Introduction to Stagecraft is an appreciation of the basic vocabulary and techniques of the various technical and organizational structures and practices of staging plays. Areas of concentration will include scenic and costume construction, basics in lighting, painting, props, sound and stage management. This is a basic course for both Acting and Stagecraft majors.
AR: attendance is required
OR: 6 hours of studio per week

1110 Acting I is an introductory course for those majoring in acting. Emphasis on voice, speech, movement and text analysis. Various learning methods will be employed, from sensitivity exercises to improvisation and creative imagination exercises. Participation in in-class performance is required.
AR: attendance is required
OR: 6 hours of studio per week
PR: THEA 1000, THEA 1010, and THEA 1020 and admission to the Theatre Major

1120 Stagecraft I is an introductory course for those majoring in stagecraft. Emphasis on the fundamentals of scenic carpentry, wardrobe, sound,

lighting, crewing, painting and stage management.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 1000, THEA 1010, and THEA 1020

2010 and 2011 Acting II are second level courses for Acting Majors. Emphasis is on speech, text analysis and scene study. Various techniques and texts will be employed to root the student in the fundamental process of acting. A beginning approach to understanding the body as an instrument and the techniques required to use the instrument.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 1001 and THEA 1110. THEA 2010 is a prerequisite for THEA 2011 and admission to the Acting Major

2020 and 2021 Stagecraft II are second level courses for the Stagecraft Major. Emphasis is on the fundamentals of drafting, stage management and props development.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 1001 and THEA 1120. THEA 2020 is a prerequisite to THEA 2021

2080 and 2081 Production Acting is in each case work for Acting Majors in a theatre department production.

AR: attendance is required

CH: 4 credit hours each

OR: 12 hours of studio per week

PR: THEA 1110

2090 and 2091 Production Stagecraft is in each case work for Stagecraft Majors, in a departmental production in a supporting capacity (i.e. assistant stage manager, wardrobe assistant, etc.).

AR: attendance is required

CH: 4 credit hours each

OR: 12 hours of studio per week

PR: THEA 1120

3010 and 3011 Acting III are intermediate level courses for the Acting Major. Continued emphasis on speech, voice production, text analysis, etc.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 2010 and THEA 2011, THEA 2080 and THEA 2081

3020 and 3021 Stagecraft III are intermediate courses for Stagecraft Majors. Continued emphasis on carpentry, painting, lighting, sound, wardrobe, stage management, etc.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 2020 and THEA 2021, THEA 2090 and THEA 2091

3060 and 3061 Master Classes I and II (Stagecraft) are courses for stagecraft students with a guest artist in a particular area of specialization.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 2020 and THEA 2021. THEA 3060 is a prerequisite for THEA 3061

3070 and 3071 Master Classes I and II (Acting) are courses for Acting students with a guest artist in a particular area of specialization.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 2010 and THEA 2011. THEA 3070 is a prerequisite for THEA 3071

3080 and 3081 Production-Acting is in each case work, for Acting Majors on a department of theatre production.

AR: attendance is required

CH: 4 credit hours each

OR: 16 hours of studio per week

PR: THEA 2010 and THEA 2011, THEA 2080 and THEA 2081

3090 and 3091 Production-Stagecraft is in each case work, for Stagecraft Majors on a departmental production in a significant capacity (i.e. stage manager, crew chief, head of props, etc.).

AR: attendance is required

CH: 4 credit hours each

OR: 16 hours of studio per week

PR: THEA 2020 and THEA 2021, THEA 2090 and THEA 2091

3605 Music Theatre Workshop - inactive course.

4001 Theatre Institute at Harlow is a full semester's work, utilizing both the Harlow Campus and Grenfell Campus, comprising a "thesis production" involving fourth-year acting and stagecraft students in major responsibilities. A practical component in Theatre Criticism utilizing the resources of the Harlow Campus proximity to London and Stratford. A series of Master Classes, Workshops, Field Trips and Guest Lectures offered by members of the theatre profession in England. A project in a selected area of theatre history.

AR: attendance is required

CH: 10

PR: THEA 4010 or THEA 4011, THEA 4060 or THEA 4070, THEA 4080 or THEA 4090, THEA 4030, THEA 4040

4010 Acting IV is an advanced course for acting majors. Concentration on advanced scene study on texts illustrating period styles or genres of plays.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 3010 and THEA 3011, THEA 3080 and THEA 3081

4020 Stagecraft IV is an advanced course for Stagecraft Majors with individual concentration on specific technical skills.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 3020 and THEA 3021, THEA 3090 and THEA 3091

4030 Theory of Directing and Design is an examination and analysis of the nature and practice of directing and design from a theoretical and aesthetic perspective. A lecture/seminar course involving script analysis to examine the interpretive and imagistic processes of directors and designers.

OR: seminar 3 hours per week

PR: THEA 3010 and THEA 3011 or THEA 3020 and THEA 3021, Visual Arts 2700 and Visual Arts 2701, and 18 credit hours in Dramatic Literature courses

4040 Directed Studies are student projects in playmaking, performance, directing, design or technical presentations supervised by faculty. In consultation with the faculty, the student will submit a proposal for a project on which he/she wishes to work. These projects will be presented in public.

OR: 6 hours of studio per week

PR: THEA 3010 and THEA 3011 or THEA 3020 and THEA 3021 and

admission to the Theatre Major

4060 Master Class III (Stagecraft) is advanced work with a guest artist in a particular area of specialization.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 3060 and THEA 3061

4070 Master Class III (Acting) is advanced work with a guest artist in a particular area of specialization.

AR: attendance is required

OR: 6 hours of studio per week

PR: THEA 3070 and THEA 3071

4080 Production-Acting is work for Acting Majors on a theatre department production.

AR: attendance is required

CH: 4

OR: 20 hours of studio per week

PR: THEA 3010 and THEA 3011, THEA 3080 and THEA 3081

4090 Production-Stagecraft is work for Stagecraft Majors on a departmental production in a significant and leading capacity (i.e. designer, stage manager, technical director, etc.).

AR: attendance is required

CH: 4

OR: 20 hours of studio per week

PR: THEA 3020 and THEA 3021, THEA 3090 and THEA 3091

10.31 Tourism

Tourism courses are designated by TRSM.

10.31.1 Core Program Course Descriptions

1000 Principles of Tourism introduces students to the history of tourism and leisure, and the development of the field of tourism studies. This will include consideration of foundational concepts such as culture and nature, research on the needs and gratifications of tourists, and studies of the functions of tourism.
CR: HKR 3565

1100 Perspectives in Tourism is an examination of tourism and the ideals, beliefs, institutions, and experiences that contribute to culture. The course will emphasize the application of the humanities and social sciences to such areas as heritage, tradition and history. The student will gain an understanding of, and appreciation for, the importance of literary, aesthetic, philosophical and religious traditions.
PR: TRSM 1000

2000 Tourism and Sustainability investigates the concept of sustainability and focuses on the importance of sustainable tourism initiatives, covers measuring the demand for tourism, the role of government and industry stakeholders in the tourism planning process, and a consideration of how tourism planning strategies are developed, implemented, evaluated, and controlled. In addition, there will be an examination of the principles that structure the tourism industry.

PR: TRSM 1000 and TRSM 1100

2201 Tourism Marketing explores marketing processes, concepts and methods, with special interest in the initiation, development and management of new tourist enterprises. Other topics include: societal marketing philosophy, the marketing mix as it relates to tourism, market research, consumer behaviour, branding and services marketing, and the implications of transportation systems on tourism activities, services marketing, sustainable tourism marketing, and e-marketing.

CR: Business 1210 and HKR 3565

PR: TRSM 1000 and TRSM 1100

3010 Issues in Ecotourism will, through the use of cases, examine philosophical, historical and contemporary issues and challenges in resource recreation and ecotourism. Opportunities for tourism activity based on special or unique ecological considerations and other forms of alternative tourism are examined, as are issues around the sustainability, impacts, risk management, programming, tour operation, ethics, development, marketing and parks management.

PR: TRSM 3100. Students must have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

3100 Resource Valuation and Tourism Activity Impact Assessments considers contemporary issues in the allocation of scarce natural and cultural resources demanded by tourism activity, and the determinants of the demand and supply for tourism recreation. Students will examine the impacts of those tourism and leisure activities upon natural systems (e.g., cultural, ecological, socio-cultural, etc.) and economies, (local, regional, etc.). Visitor impacts will also be considered.

PR: Statistics course, Economics 2010 and Economics 2020. Students must have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies

3800 Colloquium in Tourism Management (Applied Interpretation) will have during this course, three tourism practitioners from the region and beyond will hold seminars. The meetings are organized as "master classes," with direct interaction between the students and the outside experts. Depending on the practitioners, the specific focus of the tourism management may include reference to Ecology, Botany, Marine Aquatic contexts, Bird Watching, Field Guiding, Wildlife, Geography, Geology, Protected Sites, Museums and Cultural Interpretation, and Arts Programming.

PR: TRSM 3100. Students must have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

3900 Global Issues and Tourism highlights the importance of responding to world issues in tourism, and considers issues around socio-political-environmental factors influencing tourism, the impact of new social movements on tourism, the demographics and psychographics of travellers, the promotion of culture and territories, and the globalization of tourism.

PR: Students must have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

4010 Community and Cultural Issues in Tourism is a case-based course examines cultural diversity and developing sensitivities around an appreciation of one's own and other culturally-bound leisure and tourism activities. Students will build skills in areas such as inclusive planning, communication and negotiation, the changing nature of international tourism, identifying synergies and potential links with global partners (e.g., NL and Ireland).

PR: Students must have completed 78 credit hours, and have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

4900-4910 Special Topics in Tourism is a case-based course focussing on the application of major tourism theories and concepts to modern tourism industry issues. Potential areas of consideration include transportation issues in tourism, visitor management, rural tourism, urban tourism, health tourism and therapeutic recreation, island tourism, critical regionalism, maximizing the year-round potential of tourism, and contemporary research in tourism.

PR: TRSM 1000 and TRSM 1100. Students must have completed 78 credit hours, and have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

4950 Senior Project in Tourism will have students, under the guidance of a faculty member, complete an independent research project and produce a report. Topics must have the approval of the Program Chair of Tourism Studies.

PR: Students must have completed 78 credit hours, and have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

10.31.2 Electives Course Descriptions

2300 Hospitality Management introduces students to the organization and structure of resorts, hotels, restaurants, and cruise ships. Areas of consideration include business ethics, service contracts, areas of management responsibility such as strategic planning, the evaluation of financial, environmental and human resources considerations.

PR: TRSM 1000 and TRSM 1100

2301 Events Management provides an introduction to the principles and practices of event/festival management. The material will include the development of event attractions and facilities, and consideration of specific implications of planning in the areas of finance, human resources, environment, marketing, and quality management. In addition, special consideration is given to the infrastructure requirements, volunteers, sponsorship, fund raising, event planning, marketing and economic and tourism impacts of festivals and other events.

PR: TRSM 1000 and TRSM 1100

2305 Arts Administration and Exhibition Management aims to present and apply various approaches in tourism and cultural theory in the context of contemporary cultural performance and exhibition. Students will learn principles of arts administration, as well as current debates in museology and cultural representation.

PR: TRSM 1000 and TRSM 1100

3210 Interpretation of Natural Resources - inactive course.

3211 Interpretation of Cultural Resources - inactive course.

3220 Conservation Planning - inactive course.

3230 Parks and Protected Areas examines the history and geography of national parks and other publicly protected lands, and considers the impact of human interaction with landscapes. Additionally, the course will focus on tourism planning and management in national parks and protected areas, and investigate guidelines for best practice in tourism operations.

CR: HKR 3555

PR: TRSM 1000 and TRSM 1100. Students must have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

3240 Cultural Heritage Development considers built, natural and cultural resources for heritage tourism destinations on a variety of scales from World Heritage Sites to countryside and rural tourism attractions. Issues around the international context of heritage, interpretation, and packaging of cultural heritage products, regional identities and environments and the importance of small and medium sized enterprises are examined.

PR: TRSM 1000 and TRSM 1100. Students must have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

4020 Seminar in Rural and Remote Tourism provides an overview of tourism as it intersects with rural development theory, processes and planning. In addition, the course examines various social, environmental, cultural and economic problems, consequences and opportunities within a rural/peripheral area context (e.g., visitor attraction and accommodation, special transport issues).

PR: Students must completed 78 credit hours, and have officially declared a Major in Tourism Studies, a Minor in Tourism Studies, or have been accepted into the Advanced Diploma program in Tourism Studies.

10.32 University

1010 The University Experience introduces students to the different modes of enquiry that one finds in the University, the interrelatedness of knowledge and the role of the University in society. It also provides students with tools and techniques of study and research that can lead them to academic success and fulfilling career.

10.33 Visual Arts

Visual Arts courses are designated by VART.

10.33.1 1st Year

1000 Introduction to Two-Dimensional Media is an introduction to two-dimensional media (design, drawing and painting) that will provide students with both studio experience and an increased sensitivity to aesthetic concerns. Students will investigate design principles through an exploration of visual fundamentals. The course will also cover basic drawing, including drawing from life and will introduce the study of colour through the use of a variety of media. These concepts will be explored through lecture and/or studio experiences. Students are not expected to have previous drawing or art experience.

AR: attendance is required

OR: 3 hours of studio per week

1001 Introduction to Process Based Media is an introduction to process-based media that will provide students with both studio experience and an increased sensitivity to aesthetic concerns. Students will be shown the fundamental concepts of a variety of process-based media with selections being made from the media of printmaking, sculpture and photo media (photography, digital imaging, performance, video). These concepts will be explored through lecture and/or studio experiences. Students are not expected to have previous art experience.

AR: attendance is required
OR: 3 hours of studio per week

1500 Drawing I is the fundamentals of drawing with study of line, tone, shape, volume, form, texture, space. Emphasis on drawing the human figure and studio practice.

AR: attendance is required
CO: VART 1510 and VART 1520
CR: the former VART 100A/B
OR: 6 hours of studio per week

1501 Drawing II is a continuation of work begun in Drawing I.

AR: attendance is required
CO: VART 1511 and VART 1521
CR: the former VART 100A/B
OR: 6 hours of studio per week
PR: VART 1500

1510 Two-Dimensional Design and Media I is the exploration of two-dimensional surface, spatial organization and media through studio practice.

AR: attendance is required
CO: VART 1500 and VART 1520
CR: the former VART 110A/B
OR: 6 hours of studio per week

1511 Two Dimensional Design and Media II is a continuation of work begun in Two Dimensional Design and Media I

AR: attendance is required
CO: VART 1501 and VART 1521
CR: the former VART 110A/B
OR: 6 hours of studio per week
PR: VART 1510

1520 Three-Dimensional Design and Media I is the exploration three-dimensional form, spacial organization and media through studio practice.

AR: attendance is required
CO: VART 1500 and VART 1510
CR: the former VART 120A/B
OR: 6 hours of studio per week

1521 Three Dimensional Design and Media II is a continuation of work begun in Three Dimensional Design and Media I.

AR: attendance is required
CO: VART 1501 and VART 1511
CR: the former VART 120A/B
OR: 6 hours of studio per week
PR: VART 1520

10.33.2 2nd Year

2000 Second Year Drawing I is development of drawing skills with emphasis on the human figure and studio problems.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2001 Second Year Drawing II is a continuation of the work begun in VART 2000.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2000

2100 Introductory Painting I is painting media applied to problems of spatial structure, light, colour, volume and surface relationships.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2101 Introductory Painting II is a continuation of the work begun in VART 2100.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2100

2200 Introductory Sculpture I is development of accurate and expressive control of three-dimensional media.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART

1520 and VART 1521

2201 Introductory Sculpture II is a continuation of the work begun in VART 2200.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2200

2300 Introductory Printmaking I - inactive course.

2301 Introductory Printmaking II - inactive course.

2310 Introductory Printmaking: Relief is an intensive exploration of Relief Printmaking concepts and techniques using wood and lino.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2311 Introductory Printmaking: Intaglio is an intensive exploration of Intaglio Printmaking concepts and techniques. Also includes monoprint and collograph experience.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2320 Introductory Printmaking: Serigraphy is an intensive exploration of Serigraphic Printmaking concepts and techniques.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2321 Introductory Printmaking: Lithography is an intensive exploration of Lithographic Printmaking concepts and techniques.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2400 Introductory Photography I is basic techniques of black and white photography including negative exposure, film development and print production.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2401 Introductory Photography II is a continuation of the work begun in VART 2400.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2400

2600 Introductory Digital Imaging I is an introduction to the computer as an art-making tool. Computer basics. Creation acquisition, manipulation and output of digital images using several applications.

AR: attendance is required
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521

2601 Introductory Digital Imaging II is a continuation of the work begun in VART 2600. Students will learn to create original artworks directly on the computer and how to incorporate images from other sources using a colour scanner. The ethics, aesthetics and theory of digital image-making for artists will also be addressed.

AR: attendance is required
PR: VART 2600

2900-2909 Special Topics in Visual Arts is a range of introductory topics that might include: Textile Practices, Japanese Woodblock, Introduction to Time Based Media.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521, VART 2700, VART 2701, and permission of the Program Chair

10.33.3 3rd Year

3000 Intermediate Drawing I is further development of drawing skills.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2001

3001 Intermediate Drawing II is a continuation of the work begun in VART 3000.

AR: attendance is required
OR: 6 hours of studio per week

PR: VART 3000

3100 Intermediate Painting I is continued development of painting stressing personal expression and critical awareness.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2101

3101 Intermediate Painting II is a continuation of VART 3100.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 3100

3200 Intermediate Sculpture I is continued development of skills in sculpture media.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2201

3201 Intermediate Sculpture II is a continuation of VART 3200.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 3200

3300 Intermediate Printmedia I is projects in Printmedia. In consultation with the instructor students will select the medium or combination of media in which to work.

AR: attendance is required
CR: the former VART 3310 and 3220
OR: 6 hours of studio per week.
PR: 6 credit hours from any of VART 2310, 2311, 2320, 2321

3301 Intermediate Printmedia II is projects in Printmedia. In consultation with the instructor students will select the medium or combination of media in which to work.

AR: attendance is required
CR: the former VART 3311 and VART 3321
OR: 6 hours of studio per week
PR: VART 3300

3350 Directed Studies in Printmaking is a professional work/study experience in Printmaking. The student will undertake his or her own projects in Printmaking. In addition, he/she will assist the Director and/or Master printer at St. Michael's Printshop in the day to day operations of the studio. The student will be required to write a paper on an aspect of Printmaking as it pertains to St. Michael's Printshop. Normally this course is available during Spring Session only (May to mid-August) so that students can experience the complete summer activities scheduled at St. Michael's.

PR: 6 credit hours chosen from VART 2310, VART 2311, VART 2320, or VART 2321, and permission of the Program Chair

3400 Intermediate Photography I is critical evaluation of photographs. Continued development of photographic skills, use of colour and larger camera formats.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 2401

3401 Intermediate Photography II is a continuation of VART 3400.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 3400

3500 Combined Media I is thematic projects in combined media. In consultation with the instructor students will select the combination of media in which to work.

AR: attendance is required
OR: 6 hours of studio per week
PR: permission of the Program Chair or 48 credit hours in Visual Arts courses

3501 Combined Media II is a continuation of VART 3500.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 3500

3510 Digital Multi-Media I is an exploration of computer based multi-media production on the computer involving 2-D and 3-D graphics, animation, video, sound and text.

AR: attendance is required
PR: VART 2601

3511 Digital Multi-Media II is a continuation of the work begun in VART 3510. Students will learn how to create original artworks directly on the computer and how to incorporate still images, moving images, sound and text using a colour scanner, video camera, video cassette recorder, midi devices, etc. The ethics, aesthetics and theory of digital multi-media production for artists will also be addressed.

AR: attendance is required
PR: VART 3510

3900-3929 Special Topics in Visual Arts is a range of intermediate topics that might include: Ideas of Landscape, Word and Image, Installation, Performance, Art and the Environment, Non-Silver Photographic Processes, Book Arts.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521, VART 2700, VART 2701, and permission of the Program Chair

10.33.4 4th Year

4900-4929 Special Topics in Visual Arts is a range of senior topics that might include: Photo Journalism, Art and Politics, Community Practices, Environmental Practices.

AR: attendance is required
OR: 6 hours of studio per week
PR: VART 1500 and VART 1501, VART 1510 and VART 1511, VART 1520 and VART 1521, VART 2700, VART 2701, and permission of the Program Chair

4950 Independent Projects in Studio I will have students, under the supervision of a faculty member, produce an independent body of exploratory work and a related written artist statement and description of the progress and development of their work, and attend meetings with their faculty advisor. Students are required to submit work for evaluation at three critiques during the semester, and present a body of work and written documents to their advisor at the end of semester.

AR: attendance is required
PR: 54 credit hours of studio courses

4951 Independent Project in Studio II will have students, under the supervision of a faculty member, produce an independent body of consistent work, and attend meetings with their faculty advisor. Students are required to submit work for evaluation at three critiques during the semester, and present a body of work and written documents to their advisor at the end of semester.

AR: attendance is required
PR: VART 4950

10.33.5 Art History

The prerequisite for all 3000-level courses is VART 2701 or History 1101 or permission of the Chair, Visual Arts.

No students shall register in any course having an initial digit "4" unless they have successfully completed at least 6 credit hours in Art History courses or by permission of the Chair, Visual Arts.

2700 Art History Survey I (same as History 2700) is the history of art from pre-historic times to the Renaissance.

CR: History 2700

2701 Art History Survey II (same as History 2701) is the history of art from the Renaissance to the twentieth century.

CR: History 2701

3620 Philosophy of Art is an introduction to aesthetics; applications in Visual Arts, music and drama.

CR: Philosophy 3620

3700 Art History: The Italian Renaissance (same as History 3700) is an overview of the art and architecture of Renaissance Italy with an emphasis upon the historical context in which art was produced.

CR: History 3700

3701 Art History: The Renaissance Outside Italy (same as History 3701) is the Renaissance outside Italy from the late fourteenth century and the International style through the 16th century. As with the Italian Renaissance the art and architecture will be discussed in its historical context.

CR: History 3701

3702-3721 Art History: Special Topics has a range of special topics which might include: Early Renaissance Art, Art of the Later Renaissance, Canadian Art to 1900, 20th C. Canadian Art, American Art to 1900, History Context and Modern Users.

3820 Religion and the Arts (same as Religious Studies 3820) is an examination of the role of art in the expression of religious ideas, together with a study of specific religious themes and concerns in one or more of the following: literature, film, music, painting, sculpture, and dance.

CR: Religious Studies 3820
PR: Religious Studies 2810 or permission of the Department of Religious Studies

4700-4729 Art History: Special Topics has a range of senior topics which might include: British Art and Architecture, Modern Art, Modern Art II, Aesthetics, 17th and 18th Century Art, 19th Century Art, Research Project in Modernism.

4730 Art History: Modern Art I: Precursors to Modernism (same as History 4730) is an examination of the cultural, social, and political forces which, from 1750 to 1850, were to have a major impact on modernity and later modern art.

CO: 6 credit hours in Art History or permission of the Chair of the Visual Arts program

CR: History 4730

PR: 6 credit hours in Art History or permission of the Chair of the Visual Arts program

4731 Art History: Modern Art II: Early Modernism (same as History 4731) is an examination of the various cultural and social forces between 1850 and

1914 which shaped the rise of the Modern movement.

CO: 6 credit hours in Art History or permission of the Chair of the Visual Arts program

CR: History 4731

PR: 6 credit hours in Art History or permission of the Chair of the Visual Arts program

4740 Current Issues in Art - inactive course.

4741 Art Criticism - inactive course.

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

SCHOOL OF HUMAN KINETICS AND RECREATION

Archived Previous Calendar
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SCHOOL OF HUMAN KINETICS AND RECREATION

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Acting Dean

Mackinnon, S.N., B.P.E. *New Brunswick*, M.Sc. *Dalhousie*, Ph.D. *Cape Town*; Professor

Associate Dean (Graduate Studies and Research)

Behm, D.G., B.P.E., B.Ed. *Ottawa*, M.S. *McMaster*, Ph.D. *McGill*; Professor

Associate Dean (Undergraduate Studies)

vacant

Professor

Loeffler, T.A., B.A. *Prescott College*, M.S. *Minnesota State*, Ph.D. *Minnesota*; Winner of the President's Award for Distinguished Teaching, 2005-2006; Atlantic Universities Distinguished Teaching Award, 2006; 3M National Teaching Fellowship, 2008

Associate Professors

Basset, F.A., B.P.E., M.Sc., Ph.D. *Laval*
Kavanagh, B.G., B.P.E., B.Ed., M.P.E. *Memorial*, Ph.D. *Iowa*
Rohr, L.E., B.Sc.(Hons.), M.Sc., Ph.D. *Waterloo*
Sullivan, A.M., B.Rec. *Dalhousie*, M.A. *Waterloo*, Ph.D. *Guelph*

Wheeler, R.E., B.P.E., B.Ed., M.P.E. *Memorial*, Ph.D. *Alberta*

Assistant Professors

Button, D., B.Kin., M.P.E. *Memorial*, Ph.D. *University of Manitoba*; Certified Exercise Physiologist

Byrne, J.M., B.Sc.(PT) *Dalhousie*, M.Sc., Ph.D. *Waterloo*
Fletcher, T., B.Soc.Sc., G.Dip.Ed. *Charles Sturt*, M.Ed.(Hons.) *New England*, Ph.D. *Toronto*

Loucks-Atkinson, A., B.A., M.A. *Waterloo*, Ph.D. *Georgia*

Co-operative Programs

www.mun.ca/hkr/cooperative/

Downey, J.A., B.Sc. *Memorial*; Co-ordinator

Innes, G., B.A.(Hons.) *York*, M.A.L.S. *Wesleyan*; Co-ordinator

Academic Program Officer

www.mun.ca/hkr/academic_program_officer_index.php

Saunders, J., B.Ed.(Post-Secondary), M.Ed. *Memorial*

Director of Athletics

www.goseahawks.ca/

Healey, M., B.P.E.(Hons.), M.P.E. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 School Description

The School of Human Kinetics and Recreation offers undergraduate and graduate degrees in kinesiology, physical education, and recreation. The School's programs prepare students to meet societal needs for professionals who are able to initiate and manage health and lifestyle-enhancing programs. The School encourages a close working relationship among students, faculty, and staff, and with local and national sport, health, and professional organizations. Co-operative education programs provide for the integration of academic and professional knowledge. A full-time academic program officer within the School assists students with decisions related to their academic program. The School prides itself on the extent to which senior undergraduate and graduate students are engaged in teaching, research, and scholarly activity. Many graduates of the School are leaders in the fields of physical education, sport, kinesiology, health, and recreation.

Additional information regarding the School of Human Kinetics and Recreation is available at www.mun.ca/hkr/.

Students must meet all regulations of the School in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

3 Description of Programs

All courses of the School are designated by the abbreviation HKR.

3.1 General Degrees

The School of Human Kinetics and Recreation offers six general degrees in three program areas. For specific details on each degree refer to the appropriate **Program Regulations - General and Honours Degrees**.

3.1.1 Kinesiology Degrees

Kinesiology degrees are designed to prepare graduates for careers in ergonomics, fitness, health and wellness, and lifestyle professions. The kinesiology degree programs consist of School courses in addition to a flexible choice of electives. The two kinesiology degrees are:

- **Bachelor of Kinesiology (Co-operative):** is comprised of 120 credit hours and three work terms and is taken on a full-time basis.
- **Bachelor of Kinesiology:** is comprised of 120 credit hours and can be taken on a full-time or part-time basis.

3.1.2 Physical Education Degrees

Physical Education degrees are designed to prepare graduates for careers in teaching and related areas. There are two physical education degrees with teaching and general options available within each degree.

The teaching option contains courses in the fundamentals of physical education as well as courses in curriculum planning, teaching methods, and pedagogy relevant to physical education curricula for various grade levels. Within the teaching option students will be placed in an educational setting for some of the course work. Following completion of a physical education degree - teaching option, a student wishing to teach in a school setting normally completes an intermediate/secondary degree program offered by the Faculty of Education. For information regarding admission requirements to the intermediate/secondary programs refer to the **Faculty of Education** section of this Calendar.

The general option is designed to provide basic professional preparation. The general option of the program consists of courses common to the teaching option plus a flexible choice of electives, without the requirement for curriculum and methods courses.

The two physical education degrees are:

- **Bachelor of Physical Education (Co-operative):** is comprised of 120 credit hours and three work terms and is taken on a full-time basis. This program is offered in the teaching and general options.
- **Bachelor of Physical Education:** is comprised of 120 credit hours and can be taken on a full-time or part-time basis. This program is offered in the teaching and general options.

3.1.3 Recreation Degrees

Recreation degrees are designed to provide students with the opportunity to develop professional competencies in recreation and leisure service management. There are two recreation degrees in the School of Human Kinetics and Recreation with community recreation and therapeutic recreation options available within each degree. In community recreation the students will also gain an understanding of the social, physical, psychological, cultural, economic, and political issues that influence recreation and leisure participation, delivery, and management. The therapeutic recreation option is designed to provide professional preparation for the practice of therapeutic recreation. The two recreation degrees are:

- **Bachelor of Recreation (Co-operative):** is comprised of 120 credit hours and three work terms and is taken on a full-time basis.
- **Bachelor of Recreation:** is comprised of 120 credit hours and can be taken on a full-time or part-time basis.

3.2 Honours Degrees

Honours degrees signify superior academic achievement with specific course work in kinesiology, physical education, and recreation programs. To graduate with honours, application must be made on the prescribed form which is available from the School or the Office of the Registrar. For further information on honours degrees see **Program Regulations - General and Honours Degrees**.

3.3 Work Terms in Co-operative Programs

Students registered for work terms are also governed by the *Co-operative Student Handbook*. Prior to registering for the first work term, students must successfully complete the course Professional Development Seminars.

3.3.1 General Information

- During work terms students are brought into direct contact with the kinesiology, physical education, and recreation professions, exposed to the work place setting, expected to assume ever-increasing responsibility in employment situations as their education advances, and introduced to experiences beyond the scope of those which could be provided in the classroom.
- Students are responsible for finding suitable work placements. The Co-operative Education Office of the School provides resources to assist in this process.
- In addition to a work term, students may register for up to 6 credit hours, although they are advised to consult the School's Academic Program Officer.
- Students are not permitted to drop work terms without prior approval of the Committee on Undergraduate Studies and with the recommendation of the Co-operative Education Office of the School. Students who drop a work term without permission, or who fail to honour an agreement to work with an employer, will be assigned a grade of FAL (fail) for that work term.
- Students who conduct themselves in such a manner as to cause their termination from the job, will be assigned a grade of FAL (fail) for that work term.
- Students are expected to maintain professional ethics, including confidentiality.

3.3.2 Work Term Reports

- A work term report, on a topic approved by the Co-operative Education Office of the School, must be submitted for each work term. The report must be approved by the employer and submitted by the student to the Co-operative Education Office of the School on or before the appropriate deadline in the University Diary.
- Late work term reports will not be evaluated unless prior permission for a late work term report has been granted by the Co-operative Education Office of the School.

3.3.3 Evaluation of Work Terms

- Two components are considered in work term evaluation: on-the-job performance and the work term report. Each component is evaluated separately and equally. The overall evaluation of work terms will result in the assignment of one of the following letter grades: PWD (pass with distinction), PAS (pass) or FAL (fail).

4 Admission/Readmission Regulations for the School of Human Kinetics and Recreation

In addition to meeting the **UNIVERSITY REGULATIONS** students must meet the **Admission/Readmission Regulations for the School of Human Kinetics and Recreation**.

4.1 General Information

1. Entry to programs offered by the School is competitive for a limited number of placements. Meeting the minimum requirements for admission does not guarantee acceptance into the program. The final decision on admission rests with the Admissions Committee of the School.
2. Admission or readmission to the University does not necessarily constitute admission or readmission to any program.
3. Up to three positions per year in the School of Human Kinetics and Recreation may be designated for applicants of aboriginal ancestry who have met the admission requirements of the program. Applicants must send a letter of request at the time of application and provide documentation of aboriginal ancestry.

4.2 Application Forms and Deadlines

1. All programs of the School commence in the Fall semester. The deadline for application for admission is March 1.
2. The deadline for application for readmission, for students who were previously admitted to a School program, is June 1 for the Fall semester, October 1 for Winter, and February 1 for Spring.
3. Application forms are available in person from the School's General Office and the Office of the Registrar or through the School's website at www.mun.ca/hkr. Applications forms may also be obtained by writing the School of Human Kinetics and Recreation, Memorial University of Newfoundland, St. John's, NL, A1C 5S7 or the Office of the Registrar, Admissions Office, Memorial University of Newfoundland, St. John's, NL, A1C 5S7.
4. Applicants applying to more than one program must submit separate application forms and supporting documentation for each

program.

5. All applications for admission or readmission must be submitted to the Office of the Registrar. A complete application includes an application to the University (for those who have not attended Memorial University of Newfoundland in the two preceding semesters), an application to the School, an autobiographical statement, and any other required supporting documentation. Application fees must be paid when the application forms are submitted.
6. In addition to these requirements, students applying to the physical education programs must:
 - submit a current first aid certificate, and
 - complete the School's swim test. Students applying from outside St. John's should call the School's General Office at (709) 864-8130 to contact the swim test co-ordinators to arrange for testing. In lieu of the School swim test, a level 8 Red Cross or other credential satisfactory to the School may be accepted. Students unable to complete the swim test requirement before beginning their program must successfully complete this requirement by the end of October of their first semester of admission to the program. Failure to do so will result in the student being required to withdraw from the program at the end of their first semester.

4.3 Admission Requirements to School Programs

Applicants may apply for admission to School programs under the **Categories Of Applicants, Admission Criteria and Other Information** outlined under **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)**. In addition to meeting these regulations, applicants in the following categories, other than those applying for admission to the Bachelor of Recreation degree program, must meet the additional requirements as indicated below.

4.3.1 High School Applicants

- High school applicants to the kinesiology degree programs must have completed:
 - Level III Laboratory Science with a grade of at least 70%, and either
 - Level III Advanced Mathematics, or Level III Academic Mathematics with a grade of at least 70%, or Level III Academic Mathematics and a score on the Mathematics Placement Test acceptable to the Department of Mathematics and Statistics. For further information on the Mathematics Placement Test contact the Department of Mathematics and Statistics.

4.3.2 Memorial University of Newfoundland Applicants

- To be eligible for consideration for admission to all programs, other than the Bachelor of Recreation degree program, students who are attending or have previously attended this University must have a cumulative average of 60% or an average of 65% on their last 30 credit hours.
- Overall academic performance is an important criterion in reaching decisions on applications for admission, and will be considered, in the selection process.
- Applicants to the non co-operative Bachelor Recreation degree program must have at least two years of relevant work experience, or equivalent, that is deemed acceptable by the Admissions Committee of the School of Human Kinetics & Recreation.
- Students who are attending or have previously attended this University are not required to submit a copy of their transcript with their application(s).

4.3.3 Transfer Applicants

- Applicants seeking admission through transfer from accredited post-secondary institutions must have achieved a minimum overall average of 60% to be considered for admission.
- Transfer applicants to the non-co-operative Bachelor of Recreation degree program must have at least two years of relevant work experience, or equivalent, that is deemed acceptable by the Admissions Committee of the School of Human Kinetics & Recreation.
- A student's placement within a program, and requirements needed to complete the program, will be determined on an individual basis at the time of admission. No applicant will be granted placement beyond Academic Term 4.
- Transfer applicants must request that an official transcript showing any completed courses and current registrations be forwarded to the Office of the Registrar. Final transcripts must be submitted upon receipt of final grades.

4.4 Other Information

1. The School will notify applicants in writing regarding an admission decision to a School program.
2. Students admitted to a program at any level beyond Academic Term 1, without successfully completing all courses required up to that level, must successfully complete those courses prior to the end of their last academic term. Successful completion shall mean a minimum grade of 50% in every non-HKR course and a minimum grade of 60% in every HKR course.
3. Students who have been admitted to one program offered by the School and who wish to change to another program within the School must submit a new application for admission to the program. This application must be submitted to the Office of the Registrar by the March 1 deadline date and will be considered in competition with all other applications.
4. Students admitted full time to a program and who decline the offer of admission or who fail to register for courses during the Fall term of admission will be considered withdrawn from the program. Such students, if they subsequently wish to be considered for admission, must submit a new application for admission to the program. This application must be submitted to the Office of the Registrar by the March 1 deadline date and will be considered in competition with other applications.
5. Students admitted part time to a program and who decline the offer of admission or who fail to register for courses and do not successfully complete at least 6 credit hours applicable to the degree during each academic year will be considered withdrawn from the program. Such students, if they subsequently wish to be considered for admission, must submit a new application for admission to the program. This application must be submitted to the Office of the Registrar by the March 1 deadline date and will be considered in competition with other applications.
6. In the case where students have been required to withdraw from the Bachelor of Recreation (Co-operative) Programs, the Admissions Committee of the School may consider this circumstance as grounds to deny admission to applicants to the Bachelor of Recreation degree program.

5 Program Regulations - General and Honours Degrees

5.1 Bachelor of Kinesiology (Co-operative)

- The full-time 120 credit hour Bachelor of Kinesiology (Co-operative) requires 69 HKR credit hours, 51 non-HKR credit hours, and three work terms.
- The 120 credit hours shall normally be taken in the academic terms in the sequence and course load as set out in **Table 1 Bachelor of Kinesiology (Co-operative)**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- Work terms shall be taken in the term and sequence as set out in **Table 1 Bachelor of Kinesiology (Co-operative)**.

Table 1 Bachelor of Kinesiology (Co-operative)

Term	Required Courses	Elective Courses
Fall Academic Term 1	Chemistry 1010 or Chemistry 1050 English 1080 or equivalent HKR 2000 Mathematics 1000 Psychology 1000	
Winter Academic Term 2	Chemistry 1011 or Chemistry 1051 English 1110 or equivalent HKR 2300 Psychology 1001 Physics 1020 or Physics 1050	
Spring	Open	
Fall Academic Term 3	Biology 2040 HKR 1123 HKR 2310 HKR 2340 Statistics 2550	6 credit hours from non-HKR courses other than those listed under Required Courses
Winter Academic Term 4	HKR 2320 HKR 2600 or Biochemistry 2600 HKR 3320 HKR 3340	3 credit hours from HKR courses at the 2000 level or above 3 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses
Spring Work Term 1	HKR 299W	
Fall Academic Term 5	HKR 3300 HKR 3310 HKR 3410	6 credit hours from HKR courses at the 2000 level or above 3 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses
Winter Work Term 2	HKR 399W	
Spring Academic Term 6	HKR 2703 HKR 3400 HKR 4330 HKR 4420 HKR 4600	3 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses
Fall Work Term 3	HKR 499W	
Winter Academic Term 7	HKR 4702 HKR 4703	6 credit hours from HKR courses at the 2000 level or above (Honours degree candidates must include HKR 4610 in their program in place of this elective) 6 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses

5.2 Bachelor of Physical Education (Co-operative)

5.2.1 Teaching Option

- The full-time 120 credit hour Bachelor of Physical Education (Co-operative) - Teaching Option requires 69 HKR credit hours, 51 non-HKR credit hours, three work terms, and a first aid certificate and a CPR certificate both of which must be current at the time of graduation.
- The 120 credit hours shall normally be taken in the academic terms in the sequence and course load as set out in **Table 2 Bachelor of Physical Education (Co-operative) - Teaching Option**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- The three work terms shall be taken in the term and sequence as set out in **Table 2 Bachelor of Physical Education (Co-operative) - Teaching Option**.
- Students must complete 24 credit hours in an acceptable Academic Discipline or Minor. In choosing the minor students must follow the minor regulations of the appropriate Faculty or School. In choosing the Academic Discipline students must select from and follow the **Academic Discipline** requirements of the **Faculty of Education Bachelor of Education (Intermediate/Secondary), Admission Regulations**. No more than 6 credit hours at the 1000 level may be included in the 24-credit-hour Academic Discipline. At least 3 credit hours at the 3000 level or higher must be included in the 24-credit-hour Academic Discipline.

Table 2 Bachelor of Physical Education (Co-operative) - Teaching Option

Term	Required Courses	Elective Courses
Fall Academic Term 1	English 1080 or equivalent HKR 2000 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/Minor subject
Winter Academic Term 2	English 1110 or equivalent HKR 2300 3 additional credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/Minor subject Students who complete only Mathematics 1000 must include an additional 3 credit hours from a non-HKR course in their program
Fall Academic Term 3	HKR 1123 HKR 2210 HKR 2310 Statistics 2500 or equivalent Psychology 1000	3 credit hours from Academic Discipline/Minor subject 3 credit hours from a HKR course at the 2000 level or above other than those listed under Required Courses
Winter Academic Term 4	HKR 2220 HKR 2320 HKR 3320 HKR 3340 Psychology 1001	3 credit hours from Academic Discipline/Minor subject
Spring Work Term 1	HKR 299W	
Fall Academic Term 5	HKR 3110 HKR 3210 HKR 3300 HKR 3310	3 credit hours from Academic Discipline/Minor subject
Winter Work Term 2	HKR 399W	
Spring Academic Term 6	HKR 2004 HKR 3220 HKR 3400 HKR 4220 HKR 4420 HKR 4600	
Fall Work Term 3	HKR 499W	
Winter Academic Term 7	HKR 4210 First aid and CPR certification, both of which must be current at time of graduation, must be submitted to the School's Academic Program Officer.	9 credit hours from Academic Discipline/Minor subject 6 credit hours from HKR courses at the 2000 level or above other than those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives)

5.2.2 General Option

- The full-time 120 credit hour Bachelor of Physical Education (Co-operative) - General Option requires 69 HKR credit hours, 51 non-HKR credit hours, three work terms, and a first aid certificate and a CPR certificate both of which must be current at the time of graduation.
- The 120 credit hours shall normally be taken in the academic terms in the sequence and course load as set out in **Table 3 Bachelor of Physical Education (Co-operative) - General Option**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- The three work terms shall be taken in the term and sequence as set out in **Table 3 Bachelor of Physical Education (Co-operative) - General Option**.
- Students must complete 24 credit hours in an acceptable Academic Discipline or Minor. In choosing the minor students must follow the minor regulations of the appropriate Faculty or School. In choosing the Academic Discipline students must select from and follow the **Academic Discipline** requirements of the **Faculty of Education Bachelor of Education (Intermediate/Secondary), Admission Regulations**. No more than 6 credit hours at the 1000 level may be included in the 24-credit-hour Academic Discipline. At least 3 credit hours at the 3000 level or higher must be included in the 24-credit-hour Academic Discipline.

Table 3 Bachelor of Physical Education (Co-operative) - General Option

Term	Required Courses	Elective Courses
Fall Academic Term 1	English 1080 or equivalent HKR 2000 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/Minor subject
Winter Academic Term 2	English 1110 or equivalent HKR 2300 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/Minor subject Students who complete only Mathematics 1000 must include an additional 3 credit hours from a non-HKR course in their program
Fall Academic Term 3	HKR 1123 HKR 2210 HKR 2310 Statistics 2500 or equivalent Psychology 1000	3 credit hours from Academic Discipline/Minor subject 3 credit hours from HKR courses at the 2000 level or above other than those listed under Required Courses
Winter Academic Term 4	HKR 2220 HKR 2320 HKR 3320 HKR 3340 Psychology 1001	3 credit hours from Academic Discipline/Minor subject
Spring Work Term 2	HKR 299W	
Fall Academic Term 5	HKR 3210 HKR 3300 HKR 3310	3 credit hours from Academic Discipline/Minor subject 6 credit hours from HKR courses at the 2000 level or above other than those listed under Required Courses
Winter Work Term 2	HKR 399W	
Spring Academic Term 6	HKR 2004 HKR 3220 HKR 3400 HKR 4220 HKR 4420 HKR 4600	
Fall Work Term 3	HKR 499W	
Winter Academic Term 7	HKR 4210 First aid and CPR certification, both of which must be current at time of graduation, must be submitted to the School's Academic Program Officer.	9 credit hours from Academic Discipline/Minor subject 6 credit hours from HKR courses at the 2000 level or above other than those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives)

5.3 Bachelor of Recreation (Co-operative)

- The full-time Bachelor of Recreation (Co-operative) requires 120 credit hours and three work terms.
- The 120 credit hours shall normally be taken in the academic terms in the sequence and course load as set out in **Table 4 Bachelor of Recreation (Co-operative)**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- The three work terms shall be taken in the sequence as set out in **Table 4 Bachelor of Recreation (Co-operative)**.
- A minor is optional in the Bachelor of Recreation (Co-operative) program. Students following the therapeutic recreation option may opt to choose a minor of at least 24 credit hours in Psychology. Students following the community recreation option may opt to choose a minor of at least 24 credit hours in English, Math, or Psychology. In completing the minor, students must follow the minor program regulations listed under the appropriate faculty or school.

Table 4 Bachelor of Recreation (Co-operative)

Term	Required Courses	Elective Courses
Fall Academic Term 1	English 1080 or equivalent HKR 2000 HKR 2515 or HKR 2585 Psychology 1000 Sociology 1000 (or equivalent)	
Winter Academic Term 2	Business 1000 English 1110 or equivalent HKR 2300 HKR 2505 Psychology 1001	
Fall Academic Term 3	GEOG 1050 HKR 1123 HKR 2311 HKR 2585 or HKR 2515 HKR 3535 or HKR 3575/HKR 3785 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours in a non-HKR course
Winter Academic Term 4	Gender Studies 1000 HKR 3340/HKR 3685 HKR 4555 or HKR 4585 3 credit hours chosen from Mathematics 1050 or 1051 or 1000 3 credit hours in Sociology at the 2000-level	3 credit hours in a non-HKR course Students who complete only Mathematics 1000 must include an additional 3 credit hours from a non-HKR course in their program
Spring Work Term 1	HKR 299W	
Fall Academic Term 5	HKR 3575/3785 or HKR 3535 Statistics 2500	6 credit hours from HKR courses 6 credit hours in non-HKR courses
Winter Work Term 2	HKR 399W	
Spring Academic Term 6	HKR 2545 HKR 3400 HKR 3555 HKR 3565 HKR 4600	3 credit hours from HKR courses
Fall Work Term 3	HKR 499W	
Winter Academic Term 7	HKR 4575 or 4685 HKR 4585 or 4555	6 credit hours from HKR courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives) 6 credit hours in non-HKR courses

5.4 Bachelor of Kinesiology

- The full-time and part-time 120 credit hour Bachelor of Kinesiology requires 69 HKR credit hours and 51 non-HKR credit hours.
- Students admitted full time shall normally complete the 120 credit hours in the academic terms in the sequence and course load as set out in **Table 5 Bachelor of Kinesiology**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- Students admitted part time should consult with the School's Academic Program Officer regarding course sequence.

Table 5 Bachelor of Kinesiology

Term	Required Courses	Elective Courses
Fall Academic Term 1	Chemistry 1010 or Chemistry 1050 English 1080 or equivalent HKR 2000 Mathematics 1000 Psychology 1000	
Winter Academic Term 2	Chemistry 1011 or Chemistry 1051 English 1110 or equivalent HKR 2300 Psychology 1001 Physics 1020 or Physics 1050	
Spring	Open	
Fall Academic Term 3	Biology 2040 HKR 2310 HKR 2340 Statistics 2550	6 credit hours from non-HKR courses other than those listed under Required Courses
Winter Academic Term 4	HKR 2320 HKR 2600 or Biochemistry 2600 HKR 3320 HKR 3340	3 credit hours from HKR courses at the 2000 level or above 3 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses
Spring Academic Term 5	HKR 2703 HKR 3400 HKR 4330 HKR 4420 HKR 4600	3 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses
Fall Academic Term 6	HKR 3300 HKR 3310 HKR 3410	6 credit hours from HKR courses at the 2000 level or above 3 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses
Winter Academic Term 7	HKR 4702 HKR 4703	6 credit hours from HKR courses at the 2000 level or above (Honours degree candidates must include HKR 4610 in their program in place of one of these electives) 6 credit hours from non-HKR courses at the 2000 level or above other than those listed under Required Courses

Archived Previous Calendar available at:
 Current University Calendar available at:
<https://www.mun.ca/university-calendar>

5.5 Bachelor of Physical Education

5.5.1 Teaching Option

- The full-time and part-time 120 credit hour Bachelor of Physical Education - Teaching Option requires 69 HKR credit hours, 51 non-HKR credit hours, and a first aid certificate and a CPR certificate both of which must be current at the time of graduation
- Students admitted full time shall normally complete the 120 credit hours in the academic terms in the sequence and courses load as set out in **Table 6 Bachelor of Physical Education - Teaching Option**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- Students admitted part time should consult with the School's Academic Program Officer regarding course sequence.
- Students must complete 24 credit hours in an acceptable Academic Discipline or Minor. In choosing the minor students must follow the minor regulations of the appropriate Faculty or School. In choosing the Academic Discipline students must select from and follow the **Academic Discipline** requirements of the **Faculty of Education Bachelor of Education (Intermediate/Secondary)**, **Admission Regulations**. No more than 6 credit hours at the 1000 level may be included in the 24-credit-hour Academic Discipline. At least 3 credit hours at the 3000 level or higher must be included in the 24-credit-hour Academic Discipline.

Table 6 Bachelor of Physical Education - Teaching Option

Term	Required Courses	Elective Courses
Fall Academic Term 1	English 1080 or equivalent 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090 HKR 2000	3 credit hours from Academic Discipline/ Minor Subject
Winter Academic Term 2	English 1110 or equivalent HKR 2300 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/ Minor Subject Students who complete only Mathematics 1000 must include an additional 3 credit hours from a non-HKR course in their program
Fall Academic Term 3	HKR 2210 HKR 2310 Psychology 1000 Statistics 2500 or equivalent	3 credit hours from Academic Discipline/ Minor Subject 3 credit hours from HKR courses at the 2000 level or above other than those listed under Required Courses
Winter Academic Term 4	HKR 2220 HKR 2320 HKR 3320 HKR 3340 Psychology 1001	3 credit hours from Academic Discipline/ Minor Subject
Spring Academic Term 5	HKR 2004 HKR 3220 HKR 3400 HKR 4220 HKR 4420 HKR 4600	
Fall Academic Term 6	HKR 3110 HKR 3210 HKR 3300 HKR 3310	3 credit hours from Academic Discipline/ Minor Subject
Winter Academic Term 7	HKR 4210 First aid and CPR certification, both of which must be current at time of graduation, must be submitted to the School's Academic Program Officer.	9 credit hours from Academic Discipline/ Minor Subject 6 credit hours from HKR courses at the 2000 level or above other than those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives)

5.5.2 General Option

- The full-time and part-time 120 credit hour Bachelor of Physical Education - General Option requires 69 HKR credit hours, 51 non-HKR credit hours, and a first aid certificate and a CPR certificate both of which must be current at the time of graduation.
- Students admitted full time shall normally complete the 120 credit hours in the academic terms in the sequence and course load as set out in **Table 7 Bachelor of Physical Education - General Option**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must first consult with the School's Academic Program Officer.
- Students admitted part time should consult with the School's Academic Program Officer regarding course sequence.
- Students must complete 24 credit hours in an acceptable Academic Discipline or Minor. In choosing the minor students must follow the minor regulations of the appropriate Faculty or School. In choosing the Academic Discipline students must select from and follow the **Academic Discipline** requirements of the **Faculty of Education Bachelor of Education (Intermediate/Secondary), Admission Regulations**. No more than 6 credit hours at the 1000 level may be included in the 24-credit-hour Academic Discipline. At least 3 credit hours at the 3000 level or higher must be included in the 24-credit-hour Academic Discipline.

Table 7 Bachelor of Physical Education - General Option

Term	Required Courses	Elective Courses
Fall Academic Term 1	English 1080 or equivalent HKR 2000 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/Minor Subject
Winter Academic Term 2	English 1110 or equivalent HKR 2300 3 credit hours in a laboratory science (either Biology, Chemistry, or Physics is recommended) 3 credit hours in Mathematics chosen from Mathematics 1000 or 1050 or 1051 or 1090	3 credit hours from Academic Discipline/Minor Subject Students who complete only Mathematics 1000 must include an additional 3 credit hours from a non-HKR course in their program
Fall Academic Term 3	HKR 2210 HKR 2310 Statistics 2500 or equivalent Psychology 1000	3 credit hours from Academic Discipline/Minor Subject 3 credit hours from HKR courses at the 2000 level or above other those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives)
Winter Academic Term 4	HKR 2220 HKR 2320 HKR 3320 HKR 3340 Psychology 1001	3 credit hours from Academic Discipline/Minor Subject
Spring Academic Term 5	HKR 2004 HKR 3220 HKR 3400 HKR 4220 HKR 4420 HKR 4600	
Fall Academic Term 6	HKR 3210 HKR 3300 HKR 3310	3 credit hours from Academic Discipline/Minor Subject 6 credit hours from HKR courses at the 2000 level or above other those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives)
Winter Academic Term 7	HKR 4210 First aid and CPR certification, both of which must be current at time of graduation, must be submitted to the School's Academic Program Officer.	9 credit hours from Academic Discipline/Minor Subject 6 credit hours from HKR courses at the 2000 level or above other those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives)

5.6 Bachelor of Recreation

- The full-time and part-time Bachelor of Recreation is comprised of 120 credit hours as set out in **Table 8 Bachelor of Recreation - Course and Credit Hour Requirements**.
- A minor is optional in the Bachelor of Recreation program. Students following the therapeutic recreation option may opt to choose a minor of at least 24 credit hours in Psychology. Students following the community recreation option may opt to choose a minor of at least 24 credit hours in English, Math, or Psychology. In completing the minor, students must follow the minor program regulations listed under the appropriate faculty or school.
- Students admitted part-time should consult with the School's Academic Program Officer regarding course sequence.

Table 8 Bachelor of Recreation

Required Courses	HKR Electives	Non-HKR Electives
Business 1000 English 1080 English 1110 or equivalent Gender Studies 1000 Geography 1050 HKR 2000, 2300, 2311, 2505, 2515, 2545, 2585, 3340 or 3685, 3400, 3535, 3555, 3565, 3575 or 3785, 4555, 4575 or 4685, 4585, 4600 Mathematics 1000 or any 6 credit hours in Mathematics at the 1000 level Psychology 1000 Psychology 1001 Sociology 1000 (or equivalent) 3 credit hours in a Sociology course at the 2nd year level Statistics 2500	15 credit hours in HKR courses other than those listed under Required Courses (Honours degree candidates must include HKR 4610 in their program in place of one of these electives) Students who complete only Mathematics 1000 must include an additional 3 credit hours from a non-HKR course in their program. As needed, students must complete additional non-HKR courses to satisfy the 120 credit hour requirement for the degree.	18 credit hours in non-HKR electives.

5.7 Honours Degrees

- An honours degree signifies superior academic achievement.
- An application for admission to any of the honours degrees is not required. Rather, students indicate on the prescribed application for graduation form that they wish to be considered for an honours degree.
- To receive an honours degree, a candidate shall:
 - meet the requirements of the general degree;
 - successfully complete HKR 4600 and HKR 4610 with a minimum grade of 80% in each course
 - obtain an overall average of 80% or better on all HKR courses for the degree; and
 - obtain an overall average of 70% on the non-HKR credit hours required for the degree.
- A candidate for the honours degree who does not fulfill these conditions but fulfills the requirements for the general degree shall be awarded the general degree.
- A candidate may, with the approval of the Committee on Undergraduate Studies, repeat or substitute up to three courses in order to meet the requirements of clause 3 above. In counting repeats, each attempt at the same course will count as one course towards the maximum. That is, the same course, repeated three times, would place a student at the maximum and no additional repeats or substitutions would be allowed.
- Candidates are not permitted to repeat or substitute work terms for the purpose of meeting the academic requirements for honours degrees.
- A candidate who, for academic reasons, has been required to withdraw from a program offered by the School will not be eligible for the honours degree.

6 Promotion Regulations

6.1 General Information

- In addition to meeting the promotion regulations for the School of Human Kinetics and Recreation all students must meet the general academic regulations (undergraduate). For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.
- Success in the programs depends on meeting the requirements of both academic terms and work terms.
- To be promoted a student must, in addition to obtaining the requisite grades and average, complete and deliver all work term reports as required.

6.2 Promotion Status

- A student's promotion status at the end of each term will be in one of the following four categories:

6.2.1 Clear Promotion

Clear Promotion means a student can proceed to the next term without restrictions.

- Students completing an academic term will receive a Clear Promotion by obtaining an overall average of at least 60%, with a numeric grade of at least 60% in each HKR course, and a numeric grade of at least 50% in each non-HKR course.
- Students completing a work term will receive a Clear Promotion by obtaining a PAS (pass) or a PWD (pass with distinction) in the work term.
- Students completing courses in addition to a work term must obtain a PAS (pass) or a PWD (pass with distinction) in the work term and an overall average of at least 60%, with a numeric grade of at least 60% in each HKR course, and at least 50% in each non-

HKR course

6.2.2 Probationary Promotion

Probationary Promotion designates less than a Clear Promotion but requires an overall average of at least 60%, with a numeric grade of at least 50% in each course, and not more than one HKR course with a numeric grade below 60%.

- A student with Probationary Promotion at the end of Academic Term 1 may be permitted to enter Academic Term 2 but must have Clear Promotion by the end of Academic Term 2.
- A student with Probationary Promotion from any academic term may continue to the subsequent work term under the condition that entry into the next academic term is not allowed until the student's status is changed to Clear Promotion.
- A student with Probationary Promotion at the end of the final academic term will not be recommended for graduation until the student's status is changed to Clear Promotion.
- To change Probationary Promotion to Clear Promotion the student must satisfy the School that he or she is competent in the subject of the HKR course in which the student has failed to achieve 60%. This will normally entail re-examination, after which the student will be declared to have passed or failed a test of competency in the subject concerned. No numerical grade will be assigned in the re-examination, and the original grade submitted for the course will not be changed.
- Re-examination may be written, oral, practical or a combination of formats and will be at a time determined by the School.
- Only one re-examination is permitted per course. Failure to submit to the re-examination or failure in the re-examination will result in denial of promotion. If the student is subsequently readmitted to the School, he or she must repeat or replace the course in which re-examination was unsuccessful.
- A maximum of two re-examinations is permitted in a student's degree program. If a student is awarded a grade of less than 60% in a third HKR course, the student will be required to repeat or replace the course.
- It is the responsibility of the student to arrange for re-examination before the end of the first week of the student's next academic term. If re-examination is not arranged in accordance with this time frame, the student will be required to repeat or replace the course.
- The School may recommend that the student complete remedial studies before re-examination.

6.2.3 Probationary (A) Promotion

Probationary (A) Promotion designates failure to successfully complete the required components of HKR 2210, 2220, 3210, 3220, 4210 and 4220 in a given term.

- Probationary (A) Promotion will be given upon the recommendation of the course instructor/Co-ordinator and/or the Committee on Undergraduate Studies and only for extreme circumstances, duly authenticated.
- A student with Probationary (A) Promotion in any term will be permitted to enter subsequent terms and will receive a letter grade of INC (incomplete) in the course. A final numeric grade will not be received until the required components of each course have been successfully completed. Academic Council will grant this status, taking into account the specific factors involved in each case. This status is not automatic, as failure to successfully complete all required components of each course would normally result in a failing grade.
- To change Probationary (A) Promotion to Clear Promotion, a student must successfully complete the activity course(s), with a minimum grade of 60%, within one academic year of the date on which the original grade(s) of Incomplete was (were) recorded.
- A student with Probationary (A) Promotion at the end of the final academic term will not be recommended for graduation until the student has successfully completed all required components of all courses, and the student's status is changed to Clear Promotion.

6.2.4 Promotion Denied

Promotion Denied indicates Clear Promotion is not achieved each term or following probation.

- A student with Promotion Denied status will be required to withdraw from the School. Students with Promotion Denied status may apply for readmission to the program after two semesters. A student will normally be readmitted into the term from which promotion was denied.
- A student who is denied promotion for failing a work term may be considered for readmission after the lapse of two semesters, at which time the student will be required to complete a further work term with satisfactory performance before being admitted to any further academic term in the School. A work term may be repeated only once, and not more than two work terms may be repeated in the entire program.
- A student who has been denied promotion as a result of having failed a work term and who, in the opinion of the School, can benefit from a remedial program, may be permitted an extension of time not to exceed the end of the registration period of the subsequent semester to complete the requirements of the work term.
- A student who is denied promotion as a result of grades received in HKR and non-HKR courses will be required to repeat all HKR courses in which they obtained a numeric grade of less than 60% in that term. A non-HKR course may be replaced by a course acceptable in the student's program.
- A student with Promotion Denied status at the end of the final academic term will not be recommended for graduation until the student's status is changed to Clear Promotion.

6.3 Other Information

- The Committee on Undergraduate Studies will determine each student's promotion status at the end of each term and will make its recommendations to Academic Council.
- Academic Council may promote a student notwithstanding the promotion regulations given above. A decision of this nature will be made only for reasons acceptable to Academic Council and in the case of a student thought likely to succeed in future terms.
- A student shall be permitted only one readmission to the School.
- Students may be required to withdraw from their program at any time, if, in the opinion of the School, they are unlikely to benefit from continued attendance.

7 Waiver of School Regulations

Every student has the right to request waiver of School regulations. Students wishing waiver of University academic regulations should refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**.

7.1 General Information

- The School reserves the right in special circumstances to modify, alter, or waive any School regulation in its application to individual students where merit and equity so warrant in the judgment of the Committee on Undergraduate Studies of the School.
- All requests, other than requests for waiver of a prerequisite or co-requisite of a School course, must be submitted to the Committee on Undergraduate Studies of the School for consideration. Waiver of a School course prerequisite or co-requisite may be granted by the course instructor.
- Students requesting a waiver of a School regulation, other than requests for waiver of a prerequisite or co-requisite of a School course, must submit their request in writing to the Chair of the Committee on Undergraduate Studies on the prescribed form which is available from the School's general office. Medical and/or other documentation to substantiate the request must be provided.
- Any waiver granted does not reduce the total number of credit hours required for the degree.
- In addition, regardless of any waiver granted, students enrolled in a co-operative program must successfully complete a minimum of two work terms.

8 Appeal of Regulations

Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

9 HKR Courses Available to Students Not Enrolled in a Program Offered By the School

9.1 Regulations for Students Not in a Program Offered By the School

- Students not in a program offered by the School may register for a maximum of 15 credit hours only from the following list if space is available.
- Students who have been required to withdraw from a program offered by the School may not register for any HKR course.
- Students not in a School program will be required to drop any HKR course(s) in excess of 15 credit hours and may be subject to academic and financial penalties.

9.2 HKR Courses

1000 Fitness and Wellness
 1001 Resistance Training for Health and Activity
 2000 Introduction to Kinesiology, Physical Education and Recreation
 2002 Coaching
 2300 Growth and Development
 2310 Human Anatomy
 2311 Anatomy and Physiology for non-HKR Students
 2320 Primary Human Physiology
 2515 Social Psychology of Leisure
 2585 Recreation and Persons with Disabilities
 2600 Introduction to Human Nutrition
 2601 Physical Activity, Obesity, and Weight Control
 3360 Care and Prevention of Athletic Injuries
 3400 Social Determinants of Health and Physical Activity
 3410 Sociology of Sport
 3490 Women in Sport and Physical Activity
 3535 Legal Aspects of Leisure and Recreation Services
 3595 Women and Leisure
 4330 Social Psychology of Sport, Physical Activity and Recreation

10 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the School.

All courses of the School are designated by HKR. The abbreviations KIN, PHSD, and RECR indicate former Kinesiology, Physical Education, and Recreation courses.

1000 Fitness and Wellness (formerly PHSD 1000) is an introduction to the concepts of fitness and wellness, and the relationships among physical activity, fitness, wellness, quality of life, and longevity.

CR: the former PHSD 1000

UL: not applicable towards any of the degrees offered by the School

1001 Resistance Training for Health and Activity (formerly KIN and PHSD 1001) is an introduction to resistance training exercises, programs, and principles. This will necessitate both theoretical classes and practical laboratories that will involve testing and participation in resistance training activities. A portion of the assessment will also be based on regular attendance (at student convenience) for another hour of resistance training per week certified by the attending fitness consultant.

CR: HKR 2340; the former KIN and PHSD 1001; the former HKR, KIN, and PHSD 4320

LH: 2

UL: not applicable towards any of the kinesiology or physical education degrees offered by the School

1123 Professional Development Seminars are offered during the Fall semester prior to a student's first work term. These seminars introduce the co-operative education process and prepare the student for work terms. These seminars are graded PAS or FAL based on attendance and participation.

AR: attendance is required
CH: 0
LC: as scheduled

2000 Introduction to Kinesiology, Physical Education and Recreation (formerly KIN, PHSD, and RECR 2000) introduces the philosophical, scientific, socio-cultural, historical concepts, and influences in kinesiology, physical education, and recreation.

CR: the former KIN, PHSD, and RECR 2000; HKR 2001

2001 Introduction to Physical Education for Education Students provides students a general overview of the role that physical education and active living play in the overall development of primary and elementary students, and in the creation of positive learning environment in schools. This course is intended for students in the primary/elementary program offered by the Faculty of Education.

CR: HKR 2000, the former KIN, PHSD, and RECR 2000

PR: admission to the Bachelor of Education (Primary/Elementary) offered by the Faculty of Education

UL: not applicable towards any of the degrees offered by the School

2002 Coaching (formerly KIN and PHSD 2002) introduces the various methods, principles, and theories used to coach developing athletes in various sport settings. Factors such as the coach's role, planning, analysing and developing skills, sport safety, and physical preparation will be presented with an emphasis on attaining competency in these areas.

CR: the former KIN and PHSD 2002; the former PHSD 421A/B

2004 Enhancing Performance in Physical Activity (formerly PHSD 2004) gives an overview of the various models, principles, and theories used to explain and predict ways in which athletes and exercisers conduct themselves in various sport settings. Selected intervention techniques to enhance performance will be presented.

CR: the former PHSD 2004

2005 Personal Stress Management is designed to provide students with an introduction to stress and to explore the relationship between exercise, fitness and physical activity and stress management. It describes how to reorganize one's life by presenting a systematic analysis of stress and coping mechanisms appropriate to different stages of life. The stress coping mechanisms will be presented with an emphasis on application. Completion of this course does not qualify students as stress management counsellors. Students interested in this field are advised to contact the Department of Psychology for information on careers in counselling.

CO: Psychology 1000 and 1001

PR: Psychology 1000 and 1001

2100 Introduction to Organization and Administration (formerly PHSD and RECR 2100) introduces the basic administrative functions in a work setting in physical education and/or recreation. The laboratory sessions will assist students to develop skill in the basic computer applications relevant to these functions.

CR: the former PHSD and RECR 2100

LH: 2

2210 Physical Activities Course: Movement Concepts (formerly PHSD 2210) employs the conceptual approach to teaching physical activity and facilitated through various forms of dance (e.g., creative, folk). Concepts, skills, and strategies will be emphasized.

AR: attendance is required. Students who are absent more than six class hours may be required to withdraw from the course and will receive a letter grade of DRF and a numeric grade of 0

CR: the former PHSD 2210

LC: as scheduled

LH: as scheduled

2220 Physical Activities Course: Gymnastics and Aquatics (formerly PHSD 2220) may employ a number of teaching methods. Emphasis will be placed on the language and practice of the conceptual approach. Concepts, skills, and strategies will be emphasized.

AR: attendance is required. Students who are absent more than six class hours may be required to withdraw from the course and will receive a letter grade of DRF and a numeric grade of 0

CR: the former PHSD 2220

LC: as scheduled

LH: as scheduled

PR: HKR 2210

2300 Growth and Development (formerly PHSD 2120, and KIN and PHSD 2300) is an introductory study of human growth and developmental factors and their influence on the learning of motor skills.

CR: the former PHSD 2120; KIN and PHSD 2300

2310 Human Anatomy (formerly KIN and PHSD 2310) is a study of the structure of the human body with emphasis on selected systems (endocrine, neural, muscular, skeletal, cardiovascular, respiratory).

CR: the former KIN and PHSD 2310

LH: 2

2311 Introduction to Anatomy and Physiology is designed to provide

students with general overview of the anatomy and physiology of the human body. Students will explore skeletal, muscular, neural and cardiorespiratory systems in addition to a very brief introduction to cell structure and 'cellular' muscle function.

CR: HKR 2310, HKR 2320

UL: not applicable towards any of the kinesiology or physical education degrees offered by the School

2320 Primary Human Physiology (formerly KIN and PHSD 2320) is a study of bodily functions with emphasis of selected systems (endocrine, neural, muscular, cardiovascular, respiratory).

CR: the former KIN and PHSD 2320

LH: 2

2340 Fitness Leadership (formerly KIN and PHSD 4320) prepares professionals in the administrative, interpretive, instructional, interpersonal, and pedagogic competencies required for and associated with fitness testing, prescription, teaching, and leadership.

CR: HKR 1001, the former KIN and PHSD 1001; KIN and PHSD 4320

2410 Historical and Comparative Physical Education - inactive course.

2420 Doping in Sport - inactive course.

2505 Recreation Programming and Evaluation (formerly RECR 2505) introduces the student to a variety of methodologies, skills, and materials for planning, developing, implementing, and evaluating professional recreation programs for diverse populations in a variety of settings.

CR: the former RECR 2505

2515 Social Psychology of Leisure (formerly RECR 2515) introduces the personality and social factors that shape how people experience leisure. Course materials will focus on life cycle theory, intrinsic and extrinsic motivation, perceived freedom, constraints theory, and other social psychological theory related to leisure.

CR: the former RECR 2515

2545 Introduction to Outdoor Recreation and Education (formerly RECR 2545) gives an overview of the foundational principles of outdoor education and recreation as they pertain to philosophy, wilderness ethics, professional preparation, movement through wildlands, environmental hazards, navigation, and safety. Students will participate in a sampling of outdoor education and recreation activities during the course.

CR: the former RECR 2545

PR: HKR 2505

2585 Foundations of Therapeutic Recreation is designed to examine a variety of aspects of therapeutic recreation from both a practical and theoretical perspective. Topics will include the history, philosophies, and theories underlying therapeutic recreation, therapeutic recreation models, essential skills for the therapeutic recreationist and ethical considerations for therapeutic recreation. Diverse groups (e.g. adults, youth, disadvantaged and disabled) and settings (e.g. community, schools, institutions, and workplace) suitable for therapeutic recreation will be discussed.

2600 Introduction to Human Nutrition (formerly KIN 2600; same as Biochemistry 2600) gives an overview of human nutrition with an emphasis on topics of current interest. Students will gain an understanding of nutrition in the context of health maintenance across the life span. Topics covered will include nutrition during pregnancy, nutrition for infants, Canadian Recommended Nutrient Intake/Dietary Reference Intake, weight loss and weight gain, nutraceuticals, and ergogenic aids.

CR: the former KIN 2600; Biochemistry 2600

2601 Physical Activity, Obesity, and Weight Control explores the relationship between physical activity, obesity, and morbidity. Emphasis will be placed on the incidence and prevalence of obesity, environmental and genetic factors affecting obesity, and mechanisms of weight and body composition modification.

2703 Introduction to Human Factors (formerly KIN 2703) is an introduction to the field of human factors, the field that studies aspects of human movement, health, safety, and performance in the workplace. This will include an introduction to the methods of detection, evaluation, and the physiological changes arising from hazards (e.g. inappropriate levels of noise, vibration, and illumination) in the workplace. The course will also examine overuse injuries in workplace studied in the context of basic biomechanics and function of the musculo-skeletal system.

CO: HKR 2320 and Physics 1020

CR: the former KIN 2703

PR: HKR 2310, Chemistry 1010 and 1011 or Chemistry 1050 and 1051

299W Work Term 1 (formerly KIN, PHSD, and RECR 001W) offers an opportunity for students to learn, develop, and practice high standards of professional behaviour and performance in the work environment. A student is required to submit a personal job diary and a work term report which should, at a minimum, reflect a clear understanding of job events and work place expectations and show reasonable competence in written communication skills.

CH: 0

CR: the former KIN, PHSD, and RECR 001W
 LC: 0
 PR: HKR 1123

3002 Advanced Coaching - inactive course.

3110 Curriculum Development and Teaching Methods (formerly PHSD 2110, 3110, and 311A/B) gives an overview, through a blend of theory and practical experience, of curriculum development and teaching methods as they apply to primary/elementary level physical education

CH: 6
 CO: HKR 3300
 CR: the former PHSD 2110, 3110, 311A/B
 LH: 9
 PR: HKR 2000, 2210, 2300, 2310, 2320 and 3340

3210 Physical Activities Course: Group Exercise, Net/Wall and Health Related Fitness (formerly PHSD 3210) covers activities such as volleyball, tennis, badminton, plus a selection of other net & wall games. A number of teaching methods may be employed and emphasis will be placed on the language and practice of the conceptual approach. Concepts, skills, and strategies will be emphasized.

AR: attendance is required. Students who are absent more than six class hours may be required to withdraw from the course and will receive a letter grade of DRF and a numeric grade of 0

CR: the former PHSD 3210
 LC: as scheduled
 LH: as scheduled
 PR: HKR 2210

3220 Physical Activities Course: Summer Outdoor Activities and Target/Striking Activities (formerly PHSD 3220) covers activities such as golf, archery, softball, and track and field. Outdoor activities include canoeing, orienteering, lightweight camping, over-night canoe trip, and introduction to rock climbing. A number of teaching methods may be employed and emphasis will be placed on the language and practice of the conceptual approach. Concepts, skills, and strategies will be emphasized.

AR: attendance is required. Students who are absent more than six class hours may be required to withdraw from the course and will receive a letter grade of DRF and a numeric grade of 0

CR: the former PHSD 3220
 LC: as scheduled
 LH: as scheduled
 PR: HKR 2210, HKR 3210

3221 Wilderness First Aid for Outdoor Leaders provides a minimum standard for outdoor professionals, guides and instructors who work in a wilderness setting. Course content extends beyond urban-based first aid programs to include elements inherent in leading groups in the outdoors and guiding wilderness adventures. Special emphasis is placed on prevention of injuries, accident scene management, leadership, leader responsibility and liability, advanced first aid kits, wound management and managing the trauma victim. CPR is included in this course.

3300 Motor Learning (formerly PHSD 2120, and KIN and PHSD 3300) gives an overview of motor learning and performance variables and their application to the teaching of physical skills, and will investigate motor control issues related to skill instruction.

CR: the former PHSD 2120; KIN and PHSD 3300
 LH: 2
 PR: HKR 2300

3310 Physiology of Exercise (formerly KIN and PHSD 3310) covers the physiological responses of the metabolic, neuromuscular, and cardiorespiratory systems at rest and during acute and chronic activity.

CR: the former KIN and PHSD 3310
 LH: 3
 PR: HKR 2310 and 2320; or Biochemistry 311A and 311B; or Nursing 1002 and 1012; or the former Pharmacy 3201 and 3202

3320 Introduction to Biomechanics (formerly KIN and PHSD 3320) is the analysis of human movement; the mechanics of motion and the general application of kinesiology.

CO: HKR 2320
 CR: the former KIN and PHSD 3320
 LH: 2
 PR: HKR 2310 It is strongly recommended that students successfully complete Physics 1020 prior to enrolling in this course

3330 Health Issues I (formerly KIN and PHSD 3330) covers issues in personal and community health related to infectious illness, degenerative illness, heredity, and nutrition.

CR: the former KIN and PHSD 3330

3340 Adapted Physical Activity (formerly KIN, PHSD, and RECR 3340) presents an overview of current practices, philosophies, and issues related to physical activity and recreation for persons with disabilities. Knowledge and understanding of various disabling conditions and consequent needs of persons with disabilities, including health, safety and fitness, and how these needs may be met in terms of physical activity will be emphasized.

CR: HKR 3685, the former KIN, PHSD, and RECR 3340

3350 Health Issues II - inactive course.

3360 Care and Prevention of Athletic Injuries (formerly KIN and PHSD 3360) is a basic introduction to the field of athletic therapy and sports medicine. The content focuses on the prevention and care of sports injuries and covers topics such as preventive screening, safe environments, on the spot assessment and First Aid, legal responsibility, and supportive taping/wrapping.

CR: the former KIN and PHSD 3360
 PR: HKR 2310 and a Basic First Aid Course

3400 Social Determinants of Health and Physical Activity provides students with a social, political, economic, environmental, and cultural perspective on health and health inequalities. A concentrated look at contemporary health issues using the social determinants of health model will equip students with critical skills necessary to consider health issues beyond physical pathologies.

3410 Sociology of Sport (formerly KIN and PHSD 3410; same as Sociology 3410) is an analysis of functions of sport in Canadian and North American society. Areas include social organization of sport, sport and social processes, sport and social problems, socialization and stratification of sport, and violence in sport.

CR: the former KIN and PHSD 3410; Sociology 3410

3485 Therapeutic Recreation Service Delivery focuses on issues related to the delivery of therapeutic recreation services. In particular, the following topics will be addressed: documentation in therapeutic recreation; client assessment issues; therapeutic recreation program planning (identifying client needs, selecting appropriate interventions, task and activity analysis, planning change-oriented programs, writing behavioural objectives, etc.); program and client evaluation; written plans of operation.

PR: HKR 2585 and HKR 2505

3490 Women in Sport and Physical Activity (formerly PHSD 3490, and PHSD and RECR 3590) provides students with an opportunity to critically examine, understand and appreciate women's involvement in and contributions to the areas of sport and physical activity. The student will be expected to analyse, synthesize, and evaluate a wide range of historical, cultural, philosophical, and socio-psychological issues that have shaped the nature and scope of women's participation in sport and physical activity.

CR: the former PHSD 3490; PHSD and RECR 3590

3505 Adventure Programming (formerly RECR 3505) introduces the theory and practice of adventure programming. Topics covered in the course will include briefing, activity selection, sequencing, group development, and risk management. The use of adventure programming with a variety of populations will be explored. Skill development in adventure activity facilitation and processing is stressed throughout the course.

CR: the former RECR 3505
 PR: HKR 2505 or permission of the instructor

3515 Outdoor Recreation and Persons with Disabilities - inactive course.

3525 Canadian Recreation Delivery Systems (formerly PHSD 3520, RECR 3525, and PHSD 4520) introduces recreation and sport delivery systems in Newfoundland and Canada. The course will examine the various agencies that administer recreation and sport at municipal, provincial, and national levels.

CR: the former PHSD 3520; RECR 3525; PHSD 4520
 PR: HKR 2000

3535 Legal Aspects of Leisure and Recreation Services (formerly RECR 3535) provides students with an opportunity for in-depth study of legal issues related to the operation of leisure services and facilities. Issues of tort and contract liability, employment related legal aspects, human rights and freedoms, and administrative procedures involved in property acquisition, law enforcement, and risk management are the topics of this course.

CR: the former RECR 3535

3545 Outdoor Recreation Leadership (formerly RECR 3545) acquaints students with the breadth, depth, and scope of outdoor recreation leadership including a detailed examination of theories, principles, and practices. The course provides opportunities for individual students to develop, practice, and receive feedback on their outdoor leadership skills. The course includes a required field experience in outdoor recreation leadership.

CR: the former RECR 3545
 PR: HKR 2505 or HKR 3220

3555 Outdoor Recreation Management (formerly PHSD 3550 and RECR 3555) gives an overview of outdoor recreation practices in Newfoundland and Canada. This course will examine the management of resources, conservation education and practices, and development for public use or exclusion; legislation related to management of risk; viability of facilities; national and provincial agencies; private commercial ventures; and future trends in management. Management strategies will form a major part of the course.

CR: the former PHSD 3550; RECR 3555

3565 Tourism/Commercial Recreation (formerly PHSD 3560 and RECR 3565) examines behavioural factors influencing tourism; promotion of commercial recreation attractions, provincial strategies in travel and tourism, problems of leisure travel, stability of entrepreneurial ventures in tourism, and research and planning strategies relevant to commercial ventures.

CR: the former PHSD 3560; RECR 3565

3575 Community Development and Recreation (formerly RECR 3575) introduces various theoretical perspectives on community organization and development, as well as methods available to the recreation practitioner to facilitate the development of recreation services in communities. This course examines, in particular, recreation services delivery which involves community residents and groups in recreation program decision-making and implementation.

CR: HKR 3785, the former RECR 3575

3595 Women and Leisure (formerly PHSD and RECR 3590, and RECR 3595) provides students with an opportunity to critically examine, understand and appreciate women's involvement in and contributions to leisure. The student will be expected to analyse, synthesize, and evaluate a wide range of historical, cultural, philosophical, and socio-psychological issues that have shaped the nature and scope of women's participation in leisure.

CR: the former PHSD and RECR 3590; RECR 3595
PR: Sociology 1000 or the former Sociology 2000

3685 Assessment and Documentation in Therapeutic Recreation presents an overview of current practices, philosophies, and issues related to recreation and leisure for persons with disabilities. Knowledge and understanding of various disabling conditions and needs of persons with disabilities from a therapeutic recreation perspective. Students will focus on communication skills necessary to carry out these tasks successfully. This requires the ability to actively listen, document with correct terminology, and interpret data to plan for treatment services.

CR: HKR 3340
PR: HKR 2585

3785 Community Development and Recreation in Therapeutic Recreation Settings introduces various theoretical perspectives on community organization and development, as well as methods available to the therapeutic recreation practitioner to facilitate the development of recreation services in communities. Various issues such as poverty, ethnicity, and disability will be addressed. This course employs an ecological perspective in examining therapeutic recreation service delivery which involves community residents and groups in recreation program decision-making and implementation. The interconnectedness between leisure education, recreation and health and community development is discussed.

CR: HKR 3575

399W Work Term 2 (formerly KIN, PHSD, and RECR 002W) offers an opportunity for students to further expand and develop professional knowledge and skills, while demonstrating the ability to accept increased responsibility and challenge in the work place. A student is expected to demonstrate competence in written communication skills through the maintenance of a personal job diary and the submission of a formal report demonstrating the student's ability to effectively gather, analyse, organize, and present information regarding a specific aspect of the work term position.

CH: 0
CR: the former KIN, PHSD, and RECR 002W
LC: 0
PR: HKR 1123 and successful completion of 299W

4210 Physical Activities Course: Winter Outdoor Activities and Leadership (formerly PHSD 4210) includes outdoor activities such as winter travel methods emphasizing cross-country skiing, snowshoeing, navigational skills, winter survival/camping, and overnight winter camping. A number of teaching methods may be employed and emphasis will be placed on the language and practice of the conceptual approach. Concepts, skills, and strategies will be emphasized.

AR: attendance is required. Students who are absent more than six class hours may be required to withdraw from the course and will receive a letter grade of DRF and a numeric grade of 0

CR: the former PHSD 4210
LC: as scheduled
PR: HKR 2210, HKR 3220

4220 Physical Activities Course: Territorial Games (formerly PHSD 4220) includes activities such as soccer and rugby, basketball, ice hockey, water polo, team handball and other territorial games. A number of teaching methods may be employed and emphasis will be placed on the language and practice of the conceptual approach. Concepts, skills, and strategies will be emphasized.

AR: attendance is required. Students who are absent more than six class hours may be required to withdraw from the course and will receive a letter grade of DRF and a numeric grade of 0

CR: the former PHSD 4220
LC: as scheduled
LH: as scheduled
PR: HKR 2210

4300 Human Motor and Perceptual Motor Disorders addresses the etiology, epidemiology or neuropathology of perceptual motor and motor disorders. Students will study a variety of developmental, progressive, traumatic and age-related movement disorders.

CR: Psychology 4810
PR: HKR 2300, HKR 3300, or consent from the instructor

4310 Evaluation (formerly KIN and PHSD 4310) includes program evaluation and measurement of the components of physical performance in addition to statistical treatment and interpretation of data.

CR: the former KIN and PHSD 4310
LH: 2
PR: Statistics 2500 or equivalent

4330 Social Psychology of Sport, Physical Activity and Recreation (formerly KIN and PHSD 4330) introduces the psychological factors that influence participation in sport, exercise, physical activity and recreation and the psychological effects derived from participation.

CR: the former KIN and PHSD 4330

4420 Issues (formerly KIN and PHSD 4420) explores, through research and discussion, trends and issues basic to the profession including areas in physical education, health, fitness, and lifestyle industries.

CR: the former KIN and PHSD 4420
PR: successful completion of a minimum of 78 credit hours

4485 Leisure Education in Therapeutic Recreation Settings is designed to provide students with the knowledge and skills required to facilitate leisure education interventions designed to bring about desired changes in the leisure behaviour of individuals. The course will address the following three broad areas: a) concepts and models of leisure education; b) content related to specific skills required for leisure involvement (leisure awareness, social skills development, friendship development, stress management, assertiveness, decision making, etc.) and c) instructional and interactional techniques used in leisure education.

PR: HKR 2585 and HKR 2505

4515 Principles and Practices of Social Recreation - inactive course.

4525 Planning for Recreation (formerly RECR 4525) focuses on the strategic planning process and how it can be used within recreation organizations. The course is designed to introduce students to various planning theories and to provide students with opportunities to develop skills in strategic and other planning processes.

CR: the former RECR 4525

4535 Camp Administration and Programming - inactive course.

4545 Facility Planning, Design and Management (formerly PHSD 4540 and RECR 4545) focuses on the major considerations in selecting site, size, type and usage of the more popular facilities as well as the problems in design, layout and function, standards, and modifications.

CR: the former PHSD 4540; the former RECR 4545

4555 Leadership and Supervision in Recreation (formerly PHSD 4550 and RECR 4555) focuses on need, selection, training, and supervision of leaders in recreation. Certification, standards and professional organizations. Evaluation of leadership materials and methods used. Practical exposure to roles of both leader and supervisor through seminar and related fieldwork.

CR: the former PHSD 4550; RECR 4555

4565 Recreation Promotion and Marketing - inactive course.

4575 Recreation Ethics, Issues and Trends (formerly PHSD 4570 and RECR 4575) explores contemporary trends and issues identified by governments and recreation practitioners and the way in which these issues influence the delivery of leisure services.

CR: HKR 4685, the former PHSD 4570, the former RECR 4575

4585 Financing Recreation Services (formerly RECR 4585) provides opportunities for in-depth study of financing leisure services in a variety of settings. The primary learning objectives are to achieve an understanding of revenue sources, financial management, and budgeting, the concepts of equity from a justice, social, and economic perspective, and the ability to use various techniques in the allocation of resources, the pricing of services, and ascertaining the costs of providing services.

CR: the former RECR 4585

4600 Introduction to Research (formerly KIN, PHSD, and RECR 4600) introduces research methodologies currently employed in kinesiology, physical education or recreation.

CR: the former KIN, PHSD, and RECR 4600
PR: Statistics 2550 or equivalent

4605 Research Methods in Recreation and Leisure II - inactive course.

4610 Research Project (formerly KIN, PHSD, and RECR 4610) is a detailed study for honours students in Kinesiology, Physical Education and Recreation, directed by a faculty member of the School, of a selected topic in the field of kinesiology, physical education or recreation.

CR: the former KIN, PHSD, and RECR 4610
 PR: a minimum of 80% in HKR 4600 and one of Statistics 2500 or
 Statistics 2550

4625 Theoretical Perspectives of Recreation and Leisure (formerly RECR 4625) is an in-depth overview and analysis of current theoretical perspectives/paradigms related to the leisure experience. A parallel purpose is to examine psychological, sociological, and social-psychological constructs that contribute to a contemporary, interdisciplinary understanding of recreation and leisure.

CR: the former RECR 4625

4635 Multicultural Perspectives of Recreation and Leisure - inactive course.

4685 Professional Issues in Therapeutic Recreation is designed to facilitate an in-depth exploration and analysis of philosophical issues and interdisciplinary theories and to discuss how they relate to therapeutic recreation practice and research. The course will be conducted as a seminar and students will be responsible for reading course materials and leading discussions on various topics. The ultimate goal of the course is to prepare the student to enter the profession confident in his/her ability to provide exemplary TR services.

CR: HKR 4575, the former PHSD 4570, the former RECR 4575
 PR: HKR 2505 and HKR 2585

4700 Advanced Fitness Training and Assessment (formerly KIN 4700) prepares students to assess, prescribe, demonstrate, supervise, educate, and counsel apparently healthy individuals across the lifespan on information related to physical activity/exercise, fitness and health. The successful completion of this course will allow students to apply for a certification as a Professional Fitness and Lifestyle Consultant from the Canadian Society of Exercise Physiology.

CR: the former KIN 4700
 LH: 2
 PR: HKR 2340

4701 Environmental Physiology (formerly KIN 4701) examines human behavioural, autonomic and metabolic responses to extreme environments. This will include the study of human responses seen during changes from normal ambient temperature and pressure, to those experienced in the environments encountered during undersea diving, space travel, altitude and other similar environments.

CR: the former KIN 4701
 PR: HKR 2320

4702 Advanced Exercise Physiology (formerly KIN 4702) prepares students to acquire the knowledge necessary to understand, analyse, and integrate information and experiences related to physiological adaptations occurring with acute and chronic activity and disuse.

CR: the former KIN 4702

LH: 2
 PR: HKR 3310

4703 Occupational Ergonomics and Sport Biomechanics (formerly KIN 4703) focuses on the contrast between biomechanical analyses of workplace tasks and athletic movement. Students will conduct a detailed biomechanical analysis of a given movement, in the workplace or for a given sport, with regard to both the probability of injury and optimization of performance.

CR: the former KIN 4703
 LH: 2
 PR: HKR 2703, 3320, and Physics 1020

4720 Directed Study (formerly KIN 4720) requires approval of Dean of the School and the course instructor. Permission to register must be obtained in the term preceding enrolment.

CR: the former KIN 4720

4785 Internship in Therapeutic Recreation provides the student with an opportunity to develop the skills to become a competent practitioner utilizing the therapeutic recreation process, assessment, treatment planning, implementation/facilitation and evaluation. This practical experience will be carried out under the supervision of an approved Therapeutic Recreation professional. The internship will consist of 14-16 full-time consecutive weeks (35-40 hours per week for a minimum total of 560 hours). This course will normally be taken in the students' last co-op work term placement or last semester of their degree program.

CR: HKR 299W, HKR 399W, HKR 499W

4910 Directed Study (formerly PHSD 4910) requires approval of Dean of the School and the course instructor. Permission to register must be obtained in the term preceding enrolment.

CR: the former PHSD 4910

4915 Directed Study (formerly RECR 4915) requires approval of Dean of the School and the course instructor. Permission to register must be obtained in the term preceding enrolment.

CR: the former RECR 4915

499W Work Term 3 (formerly KIN, PHSD, and RECR 003W) offers an opportunity for students, who have sufficient academic grounding and work experience, to exercise greater independence and responsibility in their assigned work. A student must demonstrate a high level of competency in communications skills through the submission of a formal report on a topic related to the work term or through a formal presentation on an aspect of the work term using the latest in computer technology and applications.

CH: 0
 CR: the former KIN, PHSD, and RECR 003W
 LC: 0
 PR: HKR 1123 and successful completion of 399W

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

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DIVISION OF LIFELONG LEARNING

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The programs offered by the Division of Lifelong Learning are currently under review and updates will be available at www.mun.ca.

Director

Kennedy, K., B.N., M.Ed. *Memorial*

Assistant Director

Healey, E.M., B.Voc.Ed., M.Ed. *Memorial*

Administrative Staff

Clairmont, G., Administrative Secretary

Drawing on the rich educational resources of the University and the community at large, the Division of Lifelong Learning provides innovative learning opportunities that are responsive to the needs of traditional and non-traditional learners, throughout the province and beyond.

Additional information regarding the Division of Lifelong Learning is available at www.mun.ca/lifelonglearning/.

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Certificate Programs

The Division of Lifelong Learning offers certificate programs in Business Administration, Career Development, Criminology, Library Studies, Municipal Administration, Newfoundland Studies, Public Administration, Records and Information Management, and Regional Policy and Development. These programs are offered by and are under the academic control of the appropriate faculties and schools.

Certificate courses are specially designed courses relating to specific areas of study for which no equivalent degree credit course exists and are not applicable towards an existing diploma or degree program.

A student is required to meet **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)** for entry to Memorial University of Newfoundland.

A student may receive up to three exemptions for equivalent course work completed through another program or at another institution. If a student has previously obtained credit from Memorial University of Newfoundland for any of the courses on a certificate program, s/he will not be required to repeat these courses. To receive exemptions for certificate credit courses, a student must make a written request with supporting documents (transcripts and course descriptions) to the Program Developer, Certificate Programs, Division of Lifelong Learning for consideration by the Advisory Committee for the certificate.

2.1 Admission Requirements

A student who wishes to complete certificate programs must be admitted to the University as an undergraduate student and comply with the **General Academic Regulations (Undergraduate)**.

2.2 Regulations for a First Certificate

A Memorial University of Newfoundland certificate is awarded to a student who completes certificate program requirements.

1. Every candidate for a certificate shall comply with all the course requirements governing the award of that certificate.
2. Candidates shall complete at this University a minimum of 9 credit hours of the total number of credit hours required for a certificate.
3. No candidate will be awarded a certificate unless s/he has obtained an average of 2 points or better on the total number of credit hours required for the certificate.

2.3 Regulations for a Second Certificate

A student who has completed a certificate program and wishes to complete a second certificate must:

1. comply with all course requirements governing the award of that certificate; and
2. complete at least 9 credit hours beyond those required for the first certificate. The courses which comprise these credit hours must be applicable to the certificate sought.

3 Program Regulations

3.1 Certificate in Business Administration

The Certificate in Business Administration is widely recognized by business and industry. It is designed for management-entry level employees who are interested in career development. Courses completed on the Certificate program can be applied toward the Diploma and the Degree of Bachelor of Business Administration.

A student who has a particular interest in Accounting, Marketing, Human Resources and Labour Relations, Small Business/Entrepreneurship or Information Systems should consult with the Division regarding choice of elective courses.

3.1.1 Regulations for the Certificate in Business Administration

To be eligible for the Certificate in Business Administration a student must have:

1. Completed the following 30 credit hours: Business 1000, 1101, 1210, 3310, 4000, Either 4320 or 4330 and 12 credit hours in Business electives,
2. At least two years of full-time work experience or equivalent.
3. At least two years during which the student has not been in full-time attendance at a secondary or post-secondary institution.
4. Course prerequisites for all Business courses shall apply to the Certificate in Business Administration. Students should note, for example, that the prerequisites for BUSI 1210 are English 1110 or 1021, BUSI 1000, Economics 2010, and Economics 2020. It should also be noted that some courses are not offered every semester.

3.2 Certificate in Career Development

The Certificate in Career Development is designed for persons working in the career development field who wish to consolidate and deepen their knowledge base. The program will provide a grounding in career development theory and practice for those wishing to enter the field. The practicum will give new entrants to the field valuable work experience and will allow existing practitioners the opportunity to reflect on and improve their practice.

3.2.1 Regulations for the Certificate in Career Development

A student will be required to complete a total of ten courses as follows:

1. Career Development 1000, 1100, 1200, 1210, 1220, 1300, and 3000; and
2. three elective courses chosen from the following list: Career Development 2000, 2001, 2100, 2200, or 2300.

3.3 Certificate in Criminology

The Certificate in Criminology is designed for members of the community who have a special interest in the structure and administration of criminal justice. The program is of particular interest to persons engaged in law enforcement, corrections and rehabilitation.

3.3.1 Regulations for the Certificate in Criminology

To be eligible for the Certificate in Criminology a student must complete the following:

1. Fifteen credit hours including Psychology 1000; Sociology 1000, 3290, 3395; and one of Political Science 1000, 1010, 2800.
2. Six credit hours chosen from the following where a maximum of 3 credit hours can be in one subject area:
Archaeology 2492; Political Science 2100, 2800, 3610, 3820; Psychology 2012, 2100, 2800, 3533, 3640; the former Social Work 2510, the former Social Work 3510, 3721, 4612, 5112; Sociology 2100, 2230, 2250, 3120.
In some cases, a student may substitute one optional course not listed above, that has relevance to their area of speciality and to the field of criminology. A student may submit his/her request, in writing, to the Assistant Director, Certificate Programs, Division of Lifelong Learning. The Advisory Committee will consider the request. Permission to substitute must be obtained prior to the student enrolling in or completing the course.
3. Two of Criminology 1302, 1303, 3301. A student should be aware that Criminology 3301 is not offered on a regular basis. A student may enroll in this course several times as content changes, however it may be applied to the certificate only once.

3.4 Certificate in Library Studies

The Certificate in Library Studies is for persons working in a library who wish to be more accomplished providers of library services. The program will benefit personnel in school, public, university, medical, legal, and special interest libraries.

3.4.1 Regulations for the Certificate in Library Studies

To be eligible for the Certificate in Library Studies a student must complete the following:

1. Business 2000 or Business 2010; Library Studies 1601, 1602, 1603, 1606, 1609; and
2. four courses chosen from Library Studies 1604, 1605, 1610, 1611, 2606, 3600, 3601-3609.

In some cases, a student may substitute one elective course that has relevance to his/her area of speciality and the field of library studies. A student may submit his/her request in writing to the Program Developer, Division of Lifelong Learning for consideration by the Advisory Committee.

3.5 Certificate in Municipal Administration

The Certificate in Municipal Administration is intended for employees of municipalities, and other interested parties, who wish to develop skills used in the administration of municipal services.

3.5.1 Regulations for the Certificate in Municipal Administration

To be eligible for the Certificate in Municipal Administration a student must complete the following:

1. Municipal Administration 1701, 1702, 2703, 2704, 2705, 2706; and
2. two courses chosen from Business 2000, 3310, 4320, 4330; Municipal Administration 2707.

3.6 Certificate in Newfoundland Studies

The Certificate in Newfoundland Studies is designed for those who wish to expand their knowledge of Newfoundland and Labrador. The program will be useful to persons involved in community, rural and northern development; cultural affairs, tourism, education and archival and library services.

3.6.1 Regulations for the Certificate in Newfoundland Studies

To be eligible for the Certificate in Newfoundland Studies a student must complete 24 credit hours in at least four different subject areas chosen from the following:

1. Anthropology 3290 and Archaeology 3290, 3850; Economics 2070, 3070; Education 3571; English 3155; Folklore 2300, 2230; Geography 3290, 3490; History 3110, 3120; Linguistics 2210; Political Science 3880; Religious Studies 3900, 3901; S/A 2220, 2230.
2. A maximum of 6 credit hours may be chosen from the following:
Anthropology 4280 and Archaeology 4280; Business 2000; Economics 3080; Folklore 2401, 3860, 4310, 4400; Geography 4690; History 4230, 4231; Linguistics 4220; Political Science 3890, 4650.

3.7 Certificate in Public Administration

The Certificate in Public Administration is intended for public sector employees and any others who wish to further their understanding of the administration of public policy and public programs.

3.7.1 Regulations for the Certificate in Public Administration

To be eligible for the Certificate in Public Administration a student must complete the following:

1. Business 2000, 3310; Political Science 2600, 2800, 3610, 3810; and
2. six credit hours chosen from each of two of the following groups A, B, C for a total of 12 credit hours.
 - Group A courses: Business 1000, 1101, 2101, 4320, 4330.
 - Group B courses: Political Science 1000, 1010, 3600, 3820, 3870, 3890, 4630, 4680
 - Group C courses: Any 6 credit hours in arts, science or business electives.

3.8 Certificate in Records and Information Management

The Certificate in Records and Information Management provides continuing education to those working in the records, archival and information management fields and certification in a developing profession in which practitioners have limited access to relevant upgrading.

3.8.1 Regulations for the Certificate in Records and Information Management

To be eligible for the Certificate in Records and Information Management a student must complete the following:

1. Business 2000, 3700; Computer Science 2801 or 2650 (or equivalent); Mathematics 1080 (or equivalent); Records Management 1000, 1001, 1100, 2000; and
2. two courses chosen from Business 5700, 6700; Political Science 3540, 3741; Municipal Administration 1701, 2705.

3.9 Certificate in Regional Policy and Development

The Certificate in Regional Policy and Development is for those who want to expand their knowledge and skills in regional policy and development. The program will benefit those engaged in municipal, provincial or federal government departments; regional economic development boards, the voluntary sector; and social enterprises. The program requires the completion of 32 credit hours as specified below.

3.9.1 Regulations for the Certificate in Regional Policy and Development

A student must apply for admission to the Certificate in Regional Policy and Development program by completing the Declaration/Change of Academic Program Form. This form may be obtained at www.mun.ca/regoff/registration/Declare_Change_Academic_Program.pdf or in person at the Office of the Registrar.

To be eligible to receive the Certificate in Regional Policy and Development a student must complete the following:

1. Business 1600, Geography 3350, Geography 4320;
2. twelve credit hours chosen from the following six subject areas. No more than 3 credit hours from any one subject may be used. A student is responsible for ensuring that all existing departmental prerequisites have been met, where applicable, for the courses listed below:
 - a. Business 1000, 1101, 3310, 4330;
 - b. Economics 3080, 4080, 4085, 4120;
 - c. Geography 2302, 2425, 3701, 4405;
 - d. Political Science 2600, 3280, 3600, 3650;
 - e. Sociology 2230, 3210;
 - f. Social Work 1710 and;
3. Regional Policy and Development 1800, 2800, and 3000.

4 Certificate Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

Certificate courses are specially designed courses relating to specific areas of study for which no equivalent degree credit course exists and are not applicable towards an existing diploma or degree program.

4.1 Career Development

Courses in the Certificate in Career Development are designated by CADV.

1000 Career Development I
CH: 0

1100 Assessment in Career Development I
CH: 0

1200 Interpersonal Communications

CH: 0

1210 The Nature of the Helping Relationship
CH: 0

1220 Group Facilitation
CH: 0

1300 The Nature of Work, the Workforce and the Workplace
CH: 0

2000 Career Development II
CH: 0

2001 Career Development for Special Populations
CH: 0

2100 Assessment in Career Development II
CH: 0

2200 Program Design, Implementation, and Evaluation
CH: 0

2300 The Emerging Economy
CH: 0

3000 Practicum in Career Development
CH: 0

4.2 Criminology

1302 Criminal Procedure and the Administration of Criminal Justice examines the flow of criminal matters through the criminal justice system. Topics include the investigation into criminal complaints, search and seizure, arrest, release (bail), elections and pleas, preliminary inquiries, trials, sentencing, appeals and the ultimate disposition.

CH: 0

1303 Corrections in the Criminal Justice System examines the role of corrections in the Canadian criminal justice system which seems to be in constant change. These changes will be reviewed, updated and evaluated as we look at the two-dimensional role of corrections in justice: correctional institutions (prisons) and the community/after-care functions. Includes a review of new Canadian legislation affecting the above areas, as well as an examination of sentencing options and the Canadian pardon system.

CH: 0

3301 Selected Topics in Criminology will be determined by the Division of Lifelong Learning.

CH: 0

4.3 Library Studies

1601 Introduction to Libraries introduces students to the organization, functions, and services in various types of libraries. The course will also cover some aspects of the history of libraries, ethical considerations in library work (freedom of information and access, copyright), and collection development.

CH: 0

1602 Technical Processing explains the theory and practice of the various aspects of technical processing: acquisitions, cataloguing, classification, serials and circulation.

CH: 0

1603 Reference examines reference services, the reference interview and search strategies. Reference sources, materials and research methods will be examined.

CH: 0

1604 Adult Services covers library services directed towards adults, with an emphasis on the genres of fiction and non-fiction works, the promotion of literacy and leisure reading, and reference tools.

CH: 0

1605 Children's Services looks at fiction and information books appropriate for children from birth to teenage years. Coverage will include library publicity and the promotion of books through children's programming.

CH: 0

1606 Introduction to Library Technology is intended for those interested in how technology is shaping library services and collections. Topics include an introduction to computer hardware, network topography, HTML, Integrated Library Systems, proxy servers, electronic journal procurement, electronic indexes, and evolving user interfaces. It also looks at the way technology has changed the workflow in libraries and the impact that this has had on library organization and staffing.

CH: 0

1609 Managing Libraries is an introduction to the management function in the library setting, including job descriptions, policies and procedures, legal aspects, budgeting, organizational structure and interrelationships, and public relations.

CH: 0

1610 Library Services for Business and Industry focuses on the provision of library services to business and industry, with emphasis on specific strategies for providing information to business and industry users, the role of in-house information services and libraries, and the interaction between the library, management, and administration in business and industry settings.

CH: 0

1611 Multimedia Operations in the Library Setting covers current trends in the information revolution, and their effect on communications in the library setting. Students will be introduced to applications of multimedia to library work, including audiovisual resources, desktop publishing and other software, computer networking, and the creation of promotional materials. The course is intended to be a hands-on introduction to these applications.

CH: 0

2606 Advanced Topics in Library Technology offers an overview of popular technologies like blogs, wikis, web search engines, relational databases, wireless networks, personal computing devices, and XML, with an emphasis on their application in the world of libraries. The course provides a basic understanding of library-specific protocols and standards including the NISO Circulation Interchange Protocol (NCIP), Radio

Frequency Identification (RFID), Electronic Data Interchange (EDI), Unicode, and cataloguing schemas for digital objects.

CH: 0

PR: Library Studies 1606

3600 Directed Research/Project - inactive course.

3601-3609 Special Topics in Library Studies examines specific courses developed to meet particular needs, new topics, and current trends in library studies work.

CH: 0

PR: any two Library Studies courses below the 3000 level

4.4 Municipal Administration

1701 Introduction to Municipal Accounting - inactive course.

1702 Introduction to Local Government - inactive course.

2703 Municipal Law - inactive course.

2704 Municipal Financial Administration - inactive course.

2705 Municipal Administration - inactive course.

2706 Municipal Planning and Community Development - inactive course.

2707 Selected Topics in Municipal Administration - inactive course.

4.5 Records Management

1000 Introduction to Records Management - inactive course.

1001 System and Functions in Records Management - inactive course.

1100 Introduction to Archival Science - inactive course.

2000 Records Classification Systems - inactive course.

4.6 Regional Policy and Development

Courses in the Certificate in Regional Policy and Development are designated by RPD.

1800 Community and Regional Policy and Development introduces the student to the interdisciplinary and multi-stakeholder nature of regional policy and development. The course will provide the student with a contextual framework to integrate existing knowledge and experiences as well as future studies within the field. The student will learn to utilize practical tools and approaches to overcome regional policy and development challenges.

CH: 5

UL: applicable only towards the Certificate in Regional Policy and Development

2800 Regional Policy and Planning examines public policy and planning relating to regional development at the sub-provincial, local or other functional region levels, with an emphasis on the interactions between levels of government and between government and non-government policy players in the ever-broadening spectrum of governance. It includes proactive programs intended to impact sectors, regions and labor markets, and it includes the unintended impacts governments can have as they consider the myriad of interests and pressures that influence decision making in a democracy. This course includes the incremental evolution of public policy through conventions and practices; through government statements and 'positions'; and through the ideologically-informed platforms of parties that form governments, and of the industry, labor and non-governmental organization positions on related issues that form public discourse.

PR: RPD 1800

UL: applicable only towards the Certificate in Regional Policy and Development

3000 Community Field Placement is a one semester period of practical community-based work designed to provide experience in policy analysis, strategic planning, researching and evaluating opportunities, proposal writing, project management or other topics related to regional policy and development. Students will work in an environment that is interdisciplinary and has multiple stakeholders with competing interests. Students will learn to apply the skills they have acquired in the completion of certificate program course work to real-life regional policy and development challenges.

PR: Successful completion of all other course work towards the Certificate in Regional Policy and Development, or approval from the Division of Lifelong Learning.

UL: applicable only towards the Certificate in Regional Policy and Development

5 Diploma in Information and Communications Technology

The Diploma in Information and Communications Technology is designed to provide individuals already possessing a post-secondary diploma or degree in any field with the knowledge and skills required to work in today's high technology environment. The program will benefit individuals from a wide variety of backgrounds, including business, education, technical, and administrative.

The program is offered in a collaborative learning environment with a problem-solving focus. The instructors are experienced and industry-certified by Microsoft and Cisco. The Division of Lifelong Learning is the Cisco Regional Academy for Newfoundland and Labrador; Cisco is a world leader in networking for the Internet.

Two options are available for completion of the Diploma in Information and Communications Technology:

1. Option 1. is taken on a full-time basis and is comprised of three semesters and consists of 32 credit hours and one work term.
2. Option 2. is comprised of 35 credit hours and can be taken full-time in three semesters or part-time in seven semesters.

5.1 Program Objectives

The program focus is on four areas: E-Commerce, networking, programming, and databases.

Graduates of the program will:

1. Enhance their academic and other credentials with practical technology skills.
2. Obtain skills and knowledge that will prepare them to work effectively within a high technology environment.
3. Demonstrate the ability to work as part of a team.
4. Develop skills required to analyse an organization's information and communications technology needs and design a customized solution.

5.2 Admission Requirements

Applicants to the Diploma in Information and Communications Technology normally must have successfully completed a three-year diploma or degree from an accredited post-secondary institution and attained a minimum of 65% on the last 15 courses completed. Admission to the program is limited and competitive. Application to the program must be made in writing to the Division of Lifelong Learning on the appropriate form, and must include an official transcript of post-secondary marks. Applications must be submitted by June 1 for Fall semester, October 1 for Winter semester, and February 1 for Spring semester. Applications received after these deadlines will be considered only if a place is available. In addition, students who have not registered for courses at Memorial University of Newfoundland for either of the two immediately preceding semesters must also complete an application for admission/readmission to the University.

Selection of candidates will be based on academic performance and on other criteria considered suitable for an information technology professional, including but not limited to evidence of the ability to cope with a demanding schedule or demonstrated mathematical ability.

Candidates pursuing Option 2. will be required to have at least one year of full-time work experience or equivalent.

5.3 Program Requirements

The Diploma in Information and Communications Technology consists of the set curriculum outlined below. All courses are specifically designed for the Diploma in Information and Communications Technology only, and are not applicable towards any other existing degree or diploma program. Courses are normally offered sequentially in an accelerated format. Students enrolled in Option 1. will be required to complete a work term component. A work term is not available under Option 2., however, a substantial project (INFO 4500) will be required of each participant prior to completion of the program. Students completing the program on a part-time basis must do so within three calendar years from the date of admission to the program. Students completing the program on a full-time basis must do so within four semesters from the date of admission to the program.

5.4 Evaluation, Continuance and Transfer

The passing grade for each course is 65%. A pass must also be awarded for the work term. Evaluation may include, but not be limited to, any or all of the following: projects, assignments, examinations, and class participation.

Students who obtain a numerical grade of less than 65% in no more than two of the Diploma in Information and Communications Technology courses will be given a probationary promotion and will be required to repeat the course(s) in the next semester in which it (they) is (are) offered.

The foregoing notwithstanding, students will be required to withdraw from the Diploma in Information and Communications Technology program if:

1. a final numerical grade of less than 65% is obtained in more than two courses, or
2. a final numerical grade of less than 65% is obtained in a repeated course, or
3. a final numerical grade of less than 50% is obtained in any one course.

Students may be considered for readmission by the Admissions Committee, Division of Lifelong Learning.

Students who choose to drop a course(s) are strongly encouraged to consult with the Division of Lifelong Learning to ensure their program can be completed within the specified time.

Students may be permitted to transfer between options at the end of semester one with approval from the Division of Lifelong Learning.

5.5 Work Term

Students accepted into Option 1. of the program will complete the work term component during the third semester of the Diploma in Information and Communications Technology program. The dates for starting and finishing the work term are shown in the University Diary. To be eligible for the work term, students must have successfully completed all other courses in the program. Successful completion of the work term requirement is a prerequisite to graduation from the Diploma in Information and Communications Technology.

General management of the work terms is the responsibility of the Division of Lifelong Learning. It is responsible for assisting potential employers to become involved in the program, for the continual development of employment opportunities, for arranging student-employer interviews, for counselling of students, for visiting students on their work assignments and for the evaluation of the work term. Students are also encouraged to seek out suitable work term placements.

Students and employers choose each other through the placement competition process. Employers interview students, and both the

students and employers express their preferences. Placement is not guaranteed but every effort is made to ensure that appropriate employment is made available.

Students accepted into the Diploma in Information and Communications Technology, Option 1., give permission to the Division of Lifelong Learning to supply their resumes and transcripts to prospective employers.

Salaries paid to students are determined by employers and are based upon their internal wage structures. However, students should not expect the income from work terms to make them completely self-supporting.

Students may obtain their work term placements outside the competition. Such work terms must be confirmed by the employer, and be approved by the Division of Lifelong Learning before the first day on which the student commences work.

A student may, with the permission of the Division of Lifelong Learning, be self-employed during a work term provided that the student and the Division of Lifelong Learning agree at the start of the work term on the information to be provided to the Division so that it can evaluate the student's work during the term.

A student who is unable to obtain a work term or work in approved self employment within four weeks from the start of the work term will be expected to undertake work under contract to a client within a faculty, another entity of the University, a company, municipality, non-profit organization, or the like. The contract work may be part-time, or occupy only a portion of a semester, and may allow the student to earn an income in other ways. The contract, whether paid or unpaid, must be approved by the Division of Lifelong Learning.

When neither an approved full-time work term nor an approved contract has been obtained, the Committee on Undergraduate Studies may approve a program which provides these students with technical and professional experience expected in the work term. The program must be such that the development, including the development of the students' communication skills, through the program can be monitored and assessed by the Division of Lifelong Learning with criteria equivalent to those used for full-time work term positions.

A work term report must be submitted. This report will be assigned by the Division of Lifelong Learning. Evidence of the student's ability to gather material relating to the job, analyse it effectively and present it in a clear, logical and concise form, will be required in the report. Late reports will not be evaluated, unless prior permission for a late report is given.

The evaluation of the work term is the responsibility of the Division of Lifelong Learning. Two components are considered in work term evaluation: on-the-job performance and the work term report. Each component is evaluated separately.

Evaluation of the work term will result in the assignment of one of the following recommendations:

PASS WITH DISTINCTION: Indicates excellent performance in both the work report and work performance. The student is commended for his/her outstanding performance in each of the required components; pass with distinction has been awarded to each of the work report and work performance.

PASS: Indicates that performance meets expectations in both the work report and work performance. The student fully meets the requirements of a passing work report and completely satisfactory work term performance.

FAIL: Indicates failing performance in the work report and/or work performance.

On-the-job performance is assessed by the Division of Lifelong Learning in conjunction with the employer.

If a student fails to achieve a passing grade from a work term, the student will normally repeat that work term in a work situation approved by the Division of Lifelong Learning. A given work term may be repeated only once during the program.

Students who fail to honour an agreement to work with an employer, or who drop a work term without prior approval of the Division of Lifelong Learning, or who conduct themselves in such a manner as to cause their discharge from the job, will normally be awarded a failed work term.

Permission to drop a work term does not constitute a waiver of diploma requirements, and students who obtained such permission must complete an approved work term in lieu of the one dropped.

5.6 Awarding of Diploma

Once all course requirements have been successfully completed, application for awarding of the Diploma must be made in writing on the appropriate form to the Office of the Registrar, Memorial University of Newfoundland.

5.7 Course Load

Full-time students in semester one will complete 16 credit hours.

Full-time students in semester two will complete 16 credit hours.

Full-time students may register for an additional 3 credit hour course while on the work term.

5.8 Course Descriptions

All courses, unless otherwise noted, consist of laboratory and classroom sessions.

Courses in the Diploma in Information and Communications Technology program are designated by INFO.

1000 Computer Technology provides an overview of computer technology and introduces computer basics. Students will become familiar with the basic parts of computer systems and their functions while learning troubleshooting techniques and distinguishing between hardware and software problems. Configuring hardware through the operating system and component failure will be discussed. Understanding of these topics will be enhanced by dismantling and assembling a computer. This course is a prerequisite for all other courses in this program.
CH: 1

2100 Operating Systems I is a study of basic operating systems. Features and benefits of the Windows and Unix environments will be discussed in detail.
CH: 2

CR: the former INFO 3111 and INFO 3110

PR: INFO 1000

2200 Networking Systems I is a study of the most commonly used networking systems. Topics include fundamentals of LAN theory; LAN protocols; network topologies; network security; basic network communication options; and network management.
CH: 2

PR: INFO 2100

2300 Internet Applications is a study of the Internet and its applications. Topics will include advanced searching techniques, programming languages used in developing applications for the World Wide Web, and creating and maintaining WWW sites.
CH: 1

PR: INFO 1000

2600 Introduction to Wireless LANs focuses on the design, planning, implementation, operation, and troubleshooting of Wireless LANs and bridging.
CH: 1

PR: INFO 2100

3200 Networking Systems II is a continuation of the more advanced

features of networking systems.

CH: 2
PR: INFO 2200

3301 Introduction to Programming is an introduction to the fundamentals of structured programming. Topics include: algorithms, program structures, software design methodology, language constructs, data file basics, and abstract data types.

CH: 2
CR: the former INFO 3300
PR: INFO 2100

3310 Windows Programming is a study of the fundamental elements of programming in a Windows environment. Topics will include: building a Windows Graphical Interface and the introductory concepts of object-oriented programming.

CH: 2
PR: INFO 3330

3315 Introduction to Databases is the study of the effective use of databases, including design and implementation, and their use in addressing a business data problem.

CH: 1
CR: the former INFO 3400
PR: INFO 1000

3320 Programming with Databases is a study of applications basics, basic data types, understanding objects and collections, coding for events, writing RDBMS, controlling programs, testing and debugging the application, run-time errors, and distributing the application.

CH: 2
PR: INFO 3310 and INFO 3315

3330 Object Oriented Programming is an introduction to object-oriented programming. Topics include: encapsulation, information hiding, inheritance and polymorphism.

CH: 2
PR: INFO 3301

3350 Introduction to SQL provides an overview of data server technology and SQL programming language. Topics include creating and maintaining database objects including storing, retrieving and manipulating data. The course will teach how to write SQL script files to generate report-like output.

CH: 2
PR: INFO 3315

3360 Relational Database Administration provides a firm foundation in basic database administrative tasks. The course offers a conceptual understanding of database architecture and how the architectural structures work and interact. Topics include creating an operational database and properly managing its various structures in an effective and efficient manner.

CH: 2
PR: INFO 3350

3370 Relational Database Forms and Reports will teach developing and deploying applications using forms and reports. Topics include customizing

forms through user input items and controlling data access through the creation of event-related triggers for connectivity to an SQL server.

CH: 2
PR: INFO 3360

3431 E-commerce and Intranet is an examination of the elements that define e-commerce and Intranet applications. Major elements are the concept, design and construction of web-based data applications involved in both commerce transaction processing and internal resource databases.

CH: 2
CR: the former INFO 3430
PR: INFO 2300

3440 Integrated Business Solutions is an introduction to the techniques involved in analysing a company's information technology needs, and designing a customized solution.

CH: 1
PR: INFO 3431

3450 Networking Systems III is an advanced study of switching techniques and wide area networks.

CH: 3
PR: INFO 3200

3460 Network Security includes an introduction to network security and overall security processes with emphasis on security policy design, installation, configuration, and maintenance.

CH: 2
PR: INFO 2100 and 2600

4500 Case Study / Student Project is a comprehensive analysis of an assigned case. A written report will be required. Skills and knowledge developed throughout the program will be utilized in solving business-related problems. Using a case approach, students will work in teams to evaluate a company's IT resources and prepare a proposal for a solution that will meet the company's needs. A plan will be generated with suitable phases for implementing the solution. Evaluation will be based on effectiveness of the solution, demonstrated understanding of methodology and available technology, and the clarity, conciseness, and logic of the presentation style.

CH: 3
PR: Admission to Option 2 and successful completion of all other course work, or approval of the Director of the Division of Lifelong Learning, or delegate.

460W Work Term provides opportunities for students in the program to apply theories and skills learned in the classroom to workplace settings. As one component of the work term the student is required to complete a work report which should: analyse an issue/problem related to the student's work environment; demonstrate an understanding of the structure of a professional report; and show competence in written communication and presentation skills.

CH: 0
PR: Admission to Option 1 and successful completion of all other course work.

6 Personal and Professional Development

The Division of Lifelong Learning offers more than 150 courses/seminars/workshops per semester in general interest and professional development and more than 350 course titles available through e-learning. These offerings are non-credit in nature and there are no formal admission requirements. Program areas include communications, business, computer technologies, languages, marine, writing, the arts, and courses for children and youth. Instructors are drawn from the University and the community and are usually recognized for their achievements in their fields of instruction.

These offerings are an excellent continuing education service. They serve as a valuable introduction to the university setting for persons interested in pursuing diploma or certificate studies. General interest and professional development courses are generally offered on-campus during the Fall, Winter, and Spring semesters.

The Division also administers diploma and certificate programs that are outside of the mandates of other academic units. Certificate programs are short (6 to 10 courses) ranging from being comprised of all degree credit courses to being comprised of all certificate credit courses, or some combination of the two. Certificate programs are offered in business administration, municipal administration, public administration, criminology, Newfoundland studies, and library studies. Certificate programs are available through distance education.

The Division offers customized corporate education and training to help business, industry, and public sector agencies achieve their business objectives. It works with clients to identify their professional development needs, customize the appropriate training and materials, and deliver and evaluate the seminars and workshops.

Further information on courses or programs administered by the Division of Lifelong Learning may be obtained by contacting the Division in writing to the Division of Lifelong Learning, Memorial University of Newfoundland, St. John's, NL A1C 5S7, or by telephone to (709) 864-7979, or by fax to (709) 864-8486, or by e-mail at lifelong.learning@mun.ca, or through the website at www.mun.ca/lifelonglearning.

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

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FACULTY OF MEDICINE

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www.med.mun.ca/medicine/home.aspx

N.B. Designation "Clinical" indicates a part-time appointment.

Dean of Medicine

Rourke, J.T.B., M.D. *Western, CCFP(EM), MCISc(FM), FCFP*

Vice Dean

Peters, S., M.D. *Memorial, MPH Milwaukee, FRCPC*

Associate Dean of BioMedical Sciences

Mearow, K.M., B.Sc., M.Sc. *Brock, Ph.D. McMaster*

Associate Dean of Clinical Research

Rahman, P. M.D. *Memorial, M.Sc. Toronto, FRCPC*

Associate Dean of Community Health and Humanities

Mulay, S., B.Sc. *Delhi, India, M.Sc., Ph.D McGill*

Acting Associate Dean of Research and Graduate Studies (Medicine)

Mugford, G., B.Sc., Ph.D. *Memorial*

Associate Dean of Undergraduate Medical Education

McKay, D.W., B.S., M.S., Ph.D. *Michigan State*

Acting Assistant Dean of Admissions

Dancey, P. M.D. *Memorial, FRCPC*

Assistant Dean of Continuing Medical Studies

Bursey, R.F., B.Sc, M.D. *Memorial, FRCPC*

Assistant Dean of Post-Graduate Medical Education

Samarasena, L.D.A., M.B., B.S. *Ceylon, F.F.A.R.C.S. Ireland, FRCPC*

Assistant Dean of Student Affairs

Moffatt, S. M., B.Sc. *Acadia, B.A. New Brunswick, M.D. Memorial, C.C.F.P., F.C.F.P.*

Director of Administrative Services

Peddigrew, G., B.Comm. *Memorial*

Manager, Academic Affairs

Corbett, P., B.Voc.Ed. *Memorial*

Manager, Human Resources

Wooley, E., B.Comm.(Co-op) *Memorial*

Division of BioMedical Sciences

www.med.mun.ca/getdoc/51caed4e-d9cc-4af2-a3a7-a8b556fac95d/Home.aspx

Associate Dean & Professor of Neuro/Molecular Biology

Mearow, K.M., B.Sc., M.Sc. *Brock, Ph.D. McMaster*

Professores Emeriti

Allderdice, P., M.A. *Chicago, M.S. Utah, Ph.D. Montana*

Bieger, D., M.D., Ph.D. *Kiel*

Orr, J.C., B.Sc. *London, Ph.D. Glasgow, A.R.C.S.*

Tomlinson, J.D.W., M.A., M.B., B.Chir. *Cambridge*

Professor of Neuroscience and Anatomy

McLean, J., B.Sc. *New Brunswick, Ph.D. Dalhousie*

Assistant Professor of Neurosciences

Yuan, Q., Ph.D. *Memorial*

Professor of Anatomy

Harris, J.A., B.Sc, B.Med. Sc., M.D., B.P.E. *Memorial, Dip. Med.Ed. Dundee*

Associate Professor of Anatomy

Chandra, S., M.B., B.S. *New Delhi*

Professor of Neuro/Molecular Biology

Mearow, K.M., B.Sc., M.Sc. *Brock, Ph.D. McMaster*

Professor of Molecular Virology and Medicine (Hepatology)

Michalak, T.I., M.D., Ph.D. *Warsaw; Canada Research Chair Tier II in Molecular Virology*

Assistant Professor of BioMedical Sciences

Dorward, A.M., B.Sc., Ph.D. *McMaster; Canada Research Chair Tier II in Molecular Signalling in Human Health & Disease; Cross appointment with Genetics*

Professor of Immunology

Grant, M., B.Sc., M.Sc. *British Columbia, Ph.D. McMaster; Joint appointment with Laboratory Medicine*

Associate Professors of Immunology

Drover, S., M.Sc., Ph.D. *Memorial*

Hirasawa, K., Bc.D., Ph.D. *Tokyo*

Assistant Professors of Immunology

Larijani, M., B.Sc.(Hons.), Ph.D. *Toronto; Cross appointment with Discipline of Oncology*

Russell, R., M.Sc. *Memorial, Ph.D. McGill*

Professor of Endocrinology

Carayanniotis, G., B.Sc. *Patras, Ph.D. Toronto; Joint appointment with Medicine*

Professors of Oncology

Church, J., B.Sc.(Hons.) *Queen's, M.Sc., Ph.D. Toronto*

Gillespie, L.L., B.Sc., Ph.D. *Ottawa*

Kao, K.R., B.Sc., M.Sc., Ph.D. *Toronto*

Paterno, G.D., B.Sc., M.Sc. *Toronto, Ph.D. Ottawa*

Professor of Cancer/Cardiovascular Biology

Gendron, R., B.Sc., Ph.D. *McGill; Cross appointment with Oncology*

Professor of Vascular Molecular Biology/Pediatric Cancers

Paradis, H., B.Sc., Ph.D. *Montreal*

Associate Professor of Cardiovascular Cellular and Molecular Physiology

Stuyvers, B.D., B.Sc., M.Sc., Ph.D. *Bordeaux, France*

Associate Professor of Cell Biology

Doré, J., B.Sc. *UBC, M.S. Florida, Ph.D. Tennessee*

Professor of Pharmacology (Cardiovascular)

Tabrizchi, R., B.Sc.(Hons.) *Sunderland, M.Sc., Ph.D. British Columbia*

Professor of Physiology

McKay, D., B.Sc., M.S., Ph.D. *Michigan State*

Associate Professor of Cardiovascular Sciences

McGuire, J.J., B.Sc.(Hons.), Ph.D. *Queen's University of Kingston*

Associate Professor of Reproductive and Cell Biology/Physiology

MacPhee, D., B.Sc.(Hons.) *Prince Edward Island, Ph.D. Western Ontario; Cross appointment with Biochemistry*

Associate Professor of Neurosciences

Hirasawa, M., Bc.D., Ph.D. *Tokyo*

Assistant Professor of Neurosciences

Vanderluit, J.L., B.A./BPHED *Ontario, M.Sc. Ottawa, Ph.D. British Columbia*

Professors of Cardiovascular/Renal Physiology

Smeda, J., B.Sc.(Hons.), M.Sc. *Brock, Ph.D. McMaster*

Van Vliet, B.N., B.Sc. *Toronto, Ph.D. Saskatchewan*

Professor (Biological Psychiatry)

Chen, X., M.B. *China, Ph.D. Cambridge; Joint appointment with Psychiatry*

Professor (Oncology Research)

Richardson, V.J., B.Sc., Ph.D. *Sheffield*

Joint Appointment with Medicine

Vasdev, S.C., B.Sc., M.Sc., Ph.D., D.V.M. *Punjab*

Cross Appointments from Biochemistry

Brosnan, J.T., B.Sc.(Hons.), M.Sc. *National University of Ireland, D.Phil. Oxford; University Research Professor, Awarded 1990; CIHR Senior Investigator*

Brosnan, M.E., B.A.(Hons.), M.Sc., Ph.D. *Toronto*

Christian, S., B.Sc. (Hons.) *Alberta, Ph.D. British Columbia*

Kaur, S., B.Sc. *Punjab, M.Sc. Punjab Agricultural, Ph.D. Post Graduate Institute of Medical Education and Research*

Cross Appointment from Genetics

Young, T., Ph.D. *Memorial; Winner of the President's Award for Outstanding Research, 2009*

Cross Appointment from MedicineKovacs, C., M.D., B.A. *Queen's*, FRCPC**Cross Appointments from Pharmacy**Daneshlab, N., B.Sc. (Pharmacology), Ph.D. (Pharmacokinetics)
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Pharm., Ph.D. *Medical College of Virginia***Adjunct Professors**Cermack, M., M.D. *Applied Space Technologies, Switzerland*Corbett, D., B.A. *Dalhousie*, M.Sc. *Memorial*, Ph.D. *Concordia*Mandal, S.K., M.Sc. *Banaras Hindu University*, Ph.D. *Calcutta University*Moody-Corbett, F., B.Sc. *Dalhousie*, M.A. *New Brunswick*, M.Sc., Ph.D. *McGill***Clinical Sciences****Anesthesia**www.med.mun.ca/getdoc/9109eb29-c0f9-44dc-816e-c0ece32d71ed/Home.aspx**Associate Professor and Chair**Pridham, J.N., M.D. *Western Ontario*, FRCPC**Professor**King, F.G., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC**Professor Emeritus**Henderson, C.U., M.D., C.M. *Dalhousie*, F.A.C.A., FRCPC, F.A.A.P.**Associate Professors of Anesthesia**Jamieson, J.W., B.Sc., M.D. *Memorial*, FRCPCLeDez, K.M., M.B., Ch.B. *Dundee*, FRCPCPridham, J.N., M.D. *Western Ontario*, FRCPC**Assistant Professors of Anesthesia**Bautista, M.J., B.Med.Sc., M.D. *Memorial*, FRCPCHarris, J., B.Sc., M.D. *Memorial*, FRCPCHowells, S., B.Sc., M.D. *Dalhousie*, FRCPCO'Leary, S., M.D. *Memorial*, FRCPCO'Regan, N., M.D. *Dalhousie*, FRCPCSamarasena, L.D.A., M.B., B.S. *Ceylon*, F.F.A.R.C.S. *Ireland*, FRCPCSampson, S., M.D. *University of British Columbia*, FRCPCThiessen, B., M.D. *University of British Columbia*, FRCPCZbitnew, G., B.Sc., M.D. *University of Alberta*, FRCPC**Clinical Associate Professors of Anesthesia**Bergstrom, D., M.D. *University of Western Ontario*, FRCPCDavies, E., M.D. *Dublin*, FRCPCKamra, C.P., M.B.B.S. *India*, D.A., F.F.A.R.C.S. *England*, F.F.A.R.C.S. *Ireland*, FRCPC**Clinical Assistant Professors of Anesthesia**Barrett, A., M.D. *Memorial*, FRCPCBishop, R., M.D. *Memorial*, FRCPCCasey, A.P., B.Med.Sc., M.D. *Memorial*, FRCPCChedore, T., M.D. *Memorial*, FRCPCChisholm, J., M.D. *Dalhousie*, FRCPCChu, C., M.D. *University of Western Ontario*, FRCPCClark, A., M.D. *Leeds*, FRCPCClarke, B.A., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPCCloutier, J., M.D. *University of Toronto*, FRCPCCowan, G., B.Sc., M.D. *Memorial*, FRCPCCrummey, S., B.Sc., M.D. *Memorial*, FRCPCDaly, M., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPCFlynn, J.F., B.Sc., M.D. *Memorial*, FRCPCForward, R.G., B.Med.Sc., M.D. *Memorial*, FRCPCGammal, A., B.Sc., M.D. *University of Alberta*, FRCPCHughes, D., M.D. *University of Toronto*, FRCPCKeeping, B., M.D. *Memorial*, FRCPCKeith, I., M.D. *Aberdeen*, FFARCS., FRCAKollipara, S., M.D. *India*, FCARCSILacey, D., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPCLee, S., M.D. *Queen's*Major, A.E., M.D. *Memorial*, FRCPCMir, J., M.D. *Stockholm*Nice, A., M.D. *McGill*, FRCPCNoel, F.D., B.Sc., M.D. *Memorial*, FRCPCRedmond, E.B., B.Sc., M.D. *Memorial*, FRCPCRidi, A., M.D., *Dalhousie*, FRCPCRoob, O., M.D. *University of Alberta*, FRCPCSadowski, Z., M.D. *Poland*, FRCPCSaeed, M., M.D. *Pakistan*Scovil, J., M.D. *Dalhousie*, FRCPCSeidmann, T., M.D. *Czechoslovakia*, FRCPCSuppiah, N., M.B.B.S. *India*, F.F.A.R.C.S. *Ireland*Sweeney, T., B.Sc., M.D. *Memorial*, FRCPCSzarvas, S., M.D. *Hungary*Tucker, J.H., M.D. *Western Ontario*, FRCPCVermooten, C., M.B., Ch.B. *South Africa*Williams, J.T.L., B.Sc., M.D. *Dalhousie*, FRCPC**Clinical Lecturer of Anesthesia**Badrudin, N., M.B., B.S., LRCP, MRCS, F.F.A.R.C.S. *England***Family Medicine**www.med.mun.ca/getdoc/e1aa9e58-bb44-40f7-86ef-ecbabb3c19/Home.aspx**Professor and Interim Chair**Godwin, M., M.D. *Memorial*, C.C.F.P., M.Sc. *Queen's***Professors of Family Medicine**Bethune, C., M.D. *McMaster*, C.C.F.P., F.C.F.P., M.CI.Sc. *Western Ontario*; Cross appointment to Counselling CenterJong, M., M.B.B.S. *Malaya*, M.R.C.P. *U.K.*, C.C.F.P., F.C.F.P.Rourke, J.T.B., M.D. *Western*, CCFP(EM), MCIsc(FM), FCFP**Associate Professors of Family Medicine**Butler, R., B.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P.Duke, P., B.Med.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P.Eaton, W.H., M.D. *Memorial*, C.C.F.P.Farrell, G., M.D. *Memorial*MacDonald, S.M., B.Sc.N., M.D. *McMaster*, C.C.F.P.; Joint appointment with MedicineMiller, R., M.D. *Western Ontario*, C.C.F.P., F.C.F.P.Moffatt, S.M., B.Sc. *Acadia*, B.A. *New Brunswick*, M.D. *Memorial*, C.C.F.P., F.C.F.P.O'Maonaigh, C., M.B., B.Ch., B.A.O., M.P.H. *Ireland*, C.C.F.P., M/CGPParsons, E., B.Med.Sc., M.D. *Memorial*, C.C.F.P., F.C.F.P., Dip. 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 F.C.F.P.
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 Woolfrey, J., M.D. *Memorial*, C.C.F.P.
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 Young, N., B.Sc., M.D. *Ottawa*, C.C.F.P.(E.M.), F.C.F.P.
 Young, T., B.Sc.N., M.D. *Ontario*, C.C.F.P.
 Zigante, N., M.D. *Memorial*, C.C.F.P.
- Cross Appointed from Counselling Center**
 Cornish, P., B.Sc., M.A., Ph.D. *Saskatchewan*
 Doyle, M., B.Sc.(Hons.) *Memorial*, Med.Ed.D. *Toronto*
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- Cross Appointed from School of Pharmacy**
 Bishop, L., Pharm.D. *Colorado*
 Dillon, C., B.Sc.Pharm., A.C.P.R., Pharm.D. *Toronto*
 Law, R., Pharm.D. *Buffalo*

Cross Appointed from Discipline of PsychiatryOldford, J., M.S.W., R.S.W. *Toronto***Adjunct Professor**Harrop, V., Ph.D. *Massachusetts***Professional Associate**

Cahill, D., Nurse Practitioner; Cross appointed by School of Pharmacy

Geneticswww.med.mun.ca/getdoc/46a87e79-82f4-408a-87ba-e71a8fe76709/Home.aspx**Associate Professor and Acting Chair**Fernandez, B., M.D. *Memorial*, FRCPC, FCCMG *Toronto***Professor Emeritus**Ives, E.J., M.B., Ch.B. *Glasgow*, DCH *London*, MS *Michigan*, FRCPC**Professors of Genetics**Green, J., M.Sc. *British Columbia*, Ph.D. *Memorial*
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Pryse-Phillips, W.E.M., M.D. *London*, M.R.C.P., FRCPC, Neuro., M.R.C. Psych., F.R.C.P.**Professors of Medicine**Carayanniotis, G., B.Sc. *Patras*, Ph.D. *Toronto*; Joint appointment with BioMedical Sciences
Peters, S., M.D. *Memorial*, MPH *Milwaukee*, FRCPC
Sun, G., M.D., Ph.D. *China***Professor of Medicine (Biochemistry)**Vasdev, S.C., B.Sc., M.Sc., Ph.D., D.V.M. *Punjab*; Cross appointment to BioMedical Sciences**Professor of Medicine (Cardiology)**Sussex, B.A., M.B.B.S. *Melbourne*, M.Sc. *Alberta*, FRCPC**Professor of Medicine (Endocrinology)**Kovacs, C.S., M.D., B.A. *Queen's*, FRCPC; Cross appointment to Obstetrics & Gynecology; Winner of the President's Award for

Outstanding Research, 2002-2003

Professor of Medicine (Geriatrics)Sclater, A., B.Sc. *Windsor*, M.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC**Professor of Medicine (Gastroenterology)**Fardy, J.M., B.Med.Sc., M.D. *Memorial*, M.Sc. *Western Ontario*, FRCPC**Professors of Medicine (Nephrology)**Barrett, B.J., M.B., B.Ch., B.A.O. *Cork*, M.Sc., FRCPC
Harnett, J., M.B., B.Ch., B.A.O. *Cork*, F.R.C.P.I., FRCPC
Parfrey, P., M.B., B.Ch., M.D. *Cork*, M.R.C.P., FRCPC; University Research Professor, Awarded 1995**Professor of Medicines (Neurology)**Ogunyemi, A.O., M.B., B.S. *Lagos*, FRCPC**Professor of Medicine (Respirology)**Fox, G.A., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC**Professor of Medicine (Rheumatology)**Rahman, P., M.D. *Memorial*, M.Sc. *Toronto*, FRCPC; Winner of the President's Award for Outstanding Research, 2003-2004**Professor of Medicine and Therapeutics (Part-time)**Ingram, D.W., M.B., B.Ch., B.A.O. *Queen's University, Belfast*, M.S. (Med.) *Minnesota*, M.C.F.P. (Honorary), F.R.C.P. (C), F.A.C.P.**Associate Professors of Medicine**MacDonald, S.M., B.Sc.N., M.D. *McMaster*, C.C.F.P.; Joint appointment with Family Medicine
Mugford, G., B.Sc., Ph.D. *Memorial***Associate Professor of Medicine (Cardiology)**Connors, S., D.Phil. *Oxford*, M.D. *Memorial*, FRCPC**Associate Professors of Medicine (Endocrinology)**Galway, A.B., B.Med.Sc., M.D. *Memorial*, FRCPC; Cross appointment to Obstetrics & Gynecology
Joyce, C.J., M.D. *Dalhousie*, FRCPC; Cross appointment to Obstetrics & Gynecology**Associate Professors of Medicine (Gastroenterology)**Borgaonkar, M., B.Sc., M.D. *Memorial*, FRCPC
McGrath, J.S., B.Sc., M.D. *Memorial*, FRCPC**Associate Professors of Medicine (Hematology)**Grewal, K.S., B.Med.Sc., M.D. *Memorial*, FRCPC
Scully, M.F., M.B., B.A.O., B.Ch. *Dublin*, F.R.C.P.I., FRCPC**Associate Professors of Medicine (Nephrology)**Curtis, B.M., B.Sc. *McGill*, B.Med.Sc., M.D. *Memorial*, FRCPC
Murphy, S., B.Sc. *St. Francis Xavier*, B.Med.Sc., M.D. *Memorial*, FRCPC
Paul, M., M.D. *Toronto*, FRCPC**Associate Professor of Medicine (Neurology)**Stefanelli, M., B.Sc., M.D. *University of British Columbia*, FRCPC**Associate Professor of Medicine (Rheumatology)**Hamilton, S.F., M.D. *Memorial*, FRCPC**Associate Professor of Nursing and Medicine**Way, C., B.N., B.A. *Memorial*, M.Sc.(A) *McGill*, Ph.D. *Virginia***Assistant Professor of Medicine/Clinical Education**Lush, R.B., M.D. *Memorial*, FRCPC**Assistant Professors of Medicine**Iqbal, S.J., B.Sc., M.B., B.S. *Rawalpindi Medical College*, M.Sc. *Memorial*, FRCPC, ABIM
Trahey, J., B.Med.Sc., M.D. *Memorial***Assistant Professor of Medicine (Cardiology)**McPherson, T., B.Sc., M.D. *Memorial*, FRCPC
Paulin, F., M.D. *Sherbrooke*, FRCPC**Assistant Professor of Medicine (Clinical Epidemiology)**Hodgkinson, K., B.Sc., M.Sc., Ph.D. *Memorial*
Midodzi, W., Ph.D. *Alberta***Assistant Professor of Medicine (Critical Care)**Bandrauk, N.A., M.D., C.M. *McGill*, FRCPC, ABIM

Assistant Professors of Medicine (Endocrinology)

Chandurkar, V., M.B., B.S. *Bombay*, ABIM, ABEM
Murray, C., M.Sc., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Emergency Medicine)

Baggs, D., M.Sc., M.D. *Memorial*, FRCPC
Seviour, C., B.Sc., M.D. *Memorial*, FRCPC

Assistant Professor of Medicine (Gastroenterology)

Leonard, J.R., B.Sc., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Hematology)

Bergstrom, D., B.Sc., M.D. *Memorial*, FRCPC
Hickey, J.M., B.Sc., M.D. *Memorial*, FRCPC
Tompkins, K.A., B.Med.Sc., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Infectious Diseases)

Daley, P., M.D. *Dalhousie*, FRCPC, DTM-H
Missaghi, B., B.Sc., M.D. *Saskatchewan*, FRCPC
Nguyen, C., B.Sc., M.Sc., M.D. *Toronto*, FRCPC

Assistant Professors of Medicine (Neurology)

Eustace, M.L., B.Sc., M.D. *Memorial*, FRCPC
Kelly, L.P., B.Sc.(Hons.), M.D. *Memorial*, FRCPC
Squarey, K., M.D. *Memorial*, FRCPC

Assistant Professors of Medicine (Nephrology)

Pike, A.P., B.Sc. *McGill*, M.D. *Memorial*, FRCPC
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Assistant Professor of Medicine (Physical Medicine and Rehabilitation)

McCarthy, J., B.Sc., M.D. *Memorial*, CCFP

Assistant Professors of Medicine (Respirology)

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Farrell, J., B.Sc., M.D. *Memorial*, FRCPC
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Assistant Professor of Pharmacy and Medicine (Clinical Epidemiology)

Twells, L., B.A. *Memorial*, M.Sc. *London*, Ph.D. *Memorial*

Clinical Professors of Medicine

Duguid, N., B.S., M.B., Ch.B. *Edinburgh*, M.R.C.P. (U.K.), FRCPC
Handa, S.P., MB, B.S. *Punjab*, FRCPC, DABIM, FACP, DABN
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Clinical Professor of Medicine (Hematology) (Part-time)

Adams, G.B., M.D. *McGill*, FRCPC

Clinical Professor of Medicine (Neurology)

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Clinical Associate Professors of Medicine

Al-Amri, A.S., M.D., FRCPC
Andreani, O., M.D. *Geona*
Atkinson, P., B.Sc., M.B., B.Ch., B.A.O., M.R.C.P. (U.K.) FCEM
Joshi, P.J., B.Sc., M.D. *Manchester*, ABIM, FRCPC
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McGibbon, A., M.D. *Dalhousie*, FRCPC
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Baer, C., B.Sc.(Hons.) *McGill*, M.D. *Ottawa*, FRCPC, ABIM
Barry, C.A., B.Sc. *Western Ontario*, M.D. *Memorial*, FRCPC
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Gregory, D., Ph.D. *Memorial*
Hannaforde, M., B.Sc., M.D. *Memorial*, FRCPC
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Hiscock, J.G., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
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Jones, D.M., B.Sc.(Hons.), M.Sc. (Neuroscience), M.D. *Memorial*, FRCPC
Kemp, K.M., B.Sc. *New Brunswick*, M.D. *Western Ontario*, ABIM, FRCPC
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Lightfoot, P.D., B.A., M.D. *Dalhousie*, FRCPC
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MacSween, M.C., B.Sc.(Hons.), M.D. *Dalhousie*, FRCPC
McAvinue, T.G., M.B., Ch.B. *Glasgow*, M.D. *Memorial*, FRCPC
Norwak, Z., M.D. *Poland*, FRCPC
O'Brien, M.H., B.Sc. *Ireland*, M.B., B.A.O., B.Ch. *Cork*, FRCPC
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Rebello, R., M.B., B.Ch. *Manchester*, M.R.C.P. (U.K.), FRCPC
Reddy, S.B., M.D. *Memorial*, FRCPC
Rhynold, E., M.D. *Saskatchewan*
Rubin, S.H., M.D. *Dalhousie*, FRCPC
Saeed, K., M.D. *Pakistan*
Salmon, J., M.D. *Alberta*, FRCPC, MPH
Sekhar, H.B.C., B.Sc., M.B., B.S., M.D. *India*, M.R.C.P. *United Kingdom*, FRCPC
Shaikh, A., M.D. *Mumbai*, *India*, ABIM
Sheehan, W., B.A., M.D., CCFP, FCFP
Sheridan, J.J., M.B., B.A.O., B.Ch. *Dublin*, M.R.C.P.I., FRCPC
Shrayyef, M.K., M.D., CCD
Sullivan, G., B.Sc., M.D. *University of Kentucky*, FRCPC
Sutherland, D., M.D. *Dalhousie*
Talbot, J., M.D. *Manitoba*, FRCPC
Tavenor, T., B.Med.Sc., M.D. *Memorial*, FRCPC
Toal, S.C., M.B., B.S., M.D. *Nagpur*, *India*, D.N.B. *Mumbai*, *India*
Tong, A., M.B., B.S. *Hong Kong*, FRCPC
Trudeau, C.M., B.Sc. *Dijon*, *France*, FRCPC
Vanhoutte, P., LRCPSI, M.B. *Ireland*, B.Ch., B.A.O.
Vasanthan, V., M.B.B.S, *Sri Lanka*
Williams, C., M.D. *Dalhousie*, FRCPC

Clinical Assistant Professors of Medicine (Cardiology)

Bessoudo, R., M.D. *Mexico*, FRCPC, FACC, FACP
Douglas, J.G., B.Sc. *King's College*, M.D. *Dalhousie*, FRCPC
Fagan, S., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Furey, M.U., M.D. *Memorial*, FRCPC
Lutchmedial, S.R., B.A. *Queens*, M.D., C.M. *McGill*, FRCPC
Paddock, V., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
Pearce, N., B.Sc., M.D., M.Sc. *Memorial*, FRCPC
Teskey, R., B.Sc., *Carlton*, M.D. *Ottawa*, FRCPC

Clinical Assistant Professor of Medicine (Critical Care)

West, P.H.F., B.Sc., M.D. *Dalhousie*, FRCPC

Clinical Assistant Professors (Dermatology)

Baxter, K.L., B.N., B.Sc. *Dalhousie*, B.Sc. *New Brunswick*, B.Med.Sc., M.D. *Memorial*, FRCPC, ABD
Brown-Maher, T., B.Sc., M.D. *Memorial*, FRCPC, ABD
Clarke, G.I., M.D. *Memorial*, FRCPC
Coffey, J., M.D., FRCPC
Hayes, R., B.Sc. *New Brunswick*, M.D. *Dalhousie*, FRCPC
Keeling, D.N., B.Sc. *New Brunswick*, M.D. *Dalhousie*, CCFP, FRCPC, FABD

Landells, I.D.R., B.Med.Sc., M.D. *Memorial*, FRCPC
 Ohson, K., M.B., B.S. *Bombay*, M.D. *Memorial*, FRCPC
 Pirzada, S.M., M.B.B.S., *Karachi*
 Tomi, Z., M.B., B.Ch. *Alfata*, M.R.C.P.(UK), FRCPC
 Teskey, R., B.Sc. *Carlton*, M.D. *Ottawa*, FRCPC

Clinical Assistant Professor of Medicine (Endocrinology)

Dornan, J.M., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professors of Medicine (Gastroenterology)

Fallows, G., M.D., FRCPC
 Schweiger, F., B.Sc.(Hons.) *Windsor*, M.D. Toronto, FRCPC,
 ABIM, FACP, FACP

Clinical Assistant Professors of Medicine (Geriatrics)

MacDonald, E., B.Sc., M.D. *Dalhousie*, FRCPC
 MacNeil, D., B.Sc.(Hons.) *Dalhousie*, M.Sc., Ph.D., M.D. *Alberta*,
 FRCPC

Clinical Assistant Professor of Medicine (Infectious Diseases)

Thompson, B., B.A. *Toronto*, B.Sc.(Hons.), M.D. *Western Ontario*,
 FRCPC

Clinical Assistant Professors of Medicine (Nephrology)

Gogan, N., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
 MacKinnon, M., B.Sc.(Hons.), M.Sc., M.D. *Dalhousie*, FRCPC
 Pippy, C., B.Sc. *McGill*, M.D. *Dalhousie*, FRCPC
 Sohi, P.S., B.Sc., B.A.Sc. *Ottawa*, M.A.Sc. *Waterloo*, M.D., C.M.
McGill, FRCPC

Clinical Assistant Professors of Medicine (Neurology)

Hoppe, B.J., M.D., Ph.D. *Warsaw*
 Mumtaz, S., M.B., B.S. *Dow Medical College*, A.B.P.N.
 Scott, J.L., B.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professor of Medicine (Physical Medicine & Rehabilitation)

Forgeron, P., B.Sc.(Hons.) *Dalhousie*, M. Sc. *Queen's*, M.D.
Memorial, FRCPC
 Reid, P.H., B.Sc. *Memorial*, M.D. *Dalhousie*, MRCP
 Woolfrey, P., B.Sc. *Acadia*, B.Ed., B.Med.Sc., M.D. *Memorial*,
 FRCPC

Clinical Assistant Professors of Medicine (Respirology)

Bishop, G.W., B.Sc. *Prince Edward Island*, M.D. *Waterloo*, FRCPC
 Joshi, P.C., M.B., B.S. *Grants Medical College*, M.Sc. *Jefferson*
Medical College, FRCPC, ABIM

Clinical Assistant Professors of Medicine (Rheumatology)

Sadowska, E.D., M.D. *Bialystok*, FRCPC
 Searles, G.R., B.Sc. *New Brunswick*, M.D. *Dalhousie*, FRCPC

Professional Associates

Dicks, E.L., R.N., B.N., ACNP, M.Sc., Ph.D.
 Hawboldt, J., B.S.P., ACP, Pharm.D.
 Kelly, D., B.Sc., Pharm.D.
 MacDonald, D., M.Sc., Ph.D.
 Watkins, K., Ph.D. *Memorial*; Cross appointed from Pharmacy

Cross Appointment from Family Medicine

Godwin, M., M.D. *Memorial*, C.C.F.P., M.Sc. *Queen's*

Obstetrics & Gynecology

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Associate Professor and Chair

Gill, A., M.B., B.S. *India*, FRCSC, FACOG

Professor Emeritus

Walley, R.L., M.B., B.S. *London*, M.P.H. *Harvard*, L.R.C.P.,
 F.R.C.O.G., FRCSC

Professor of Obstetrics & Gynecology

Crane, J.M., M.D. *Memorial*, FRCSC; Winner of the President's
 Award for Outstanding Research, 2004-2005

Associate Professors of Obstetrics & Gynecology

Dawson, L., M.D. *Memorial*, FRCSC
 Delaney, T., M.D. *Memorial*, FRCSC
 O'Grady, T.F., M.D. *Memorial*, FRCSC
 Popadiuk, C., M.D. *Toronto*, FRCSC
 Power, P., M.D. *Memorial*, FRCSC

Assistant Professors of Obstetrics & Gynecology

Bajzak, K., M.D. *Memorial*, FRCSC, FACOG
 Cook, C., M.D. *Memorial*, FRCSC
 Healey, S., M.D. *Memorial*, FRCSC
 Parsons, S., M.D. *Memorial*, FRCSC
 Kum, F., M.D. *Ireland*, FRCSC, DABOG
 Strand, T., M.D. *Alberta*, FRCSC

Cross Appointed from Medicine

Kovacs, C.S., M.D. *Queen's*, FRCPC; Winner of the President's
 Award for Outstanding Research, 2002-2003

Cross Appointed from Laboratory Medicine

Han, F.Y., M.D. *Henan*, FCCMG, *McGill*

Clinical Associate Professors of Obstetrics and Gynecology

Bartellas, E., M.D. *Israel*, FRCSC

Clinical Assistant Professors of Obstetrics & Gynecology

Bernadin, J., M.D. *Montreal*, FRCSC
 Brown, K., M.D. *Memorial*, FRCSC
 Colford, D., M.D. *Dalhousie*, FRCSC
 Desrosiers, K., M.D. *Sherbrooke*, FRCSC
 Gillespie, K., M.D. *Dalhousie*, FRCSC
 Healey, C., M.D. *London*, FRCSC
 Kennedy, R., M.D. *Memorial*, FRCSC
 Kogan, D., M.D. *Autonomous*, FRCSC
 Kravitz, H., B.A., B.S., M.A. *Penn.*, M.D. *Memorial*, FRCSC
 LeBlanc, C., M.D. *Montreal*, FRCSC
 Lord, H., M.D. *West Indies*, FRCSC
 Murphy-Kaulbeck, L., M.D. *McMaster*, FRCSC
 Ojuawo, A., M.D. *Obafemi Awolowo*, FRCSC
 Patterson, L., M.D. *Dalhousie*, FRCSC
 Pike, C., M.D. *Memorial*, FRCSC
 Reardon, E., M.D. *Dalhousie*, FRCSC
 Sanderson, F., M.D. *McMaster*, FRCSC
 Satya, S.S., M.D. *Australia*, FRCSC
 Sheppard, K., M.D. *Memorial*, FRCSC
 Trites, K., M.D. *Dalhousie*
 White, J., M.D. *Memorial*, FRCSC

Professional Associate

Murphy, P., M.Sc. *Memorial*

Laboratory Medicine

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Professor and Chair of Laboratory Medicine (Forensic)

Avis, S., B.Med.Sc., M.D. *Memorial*, FRCPC

Professor of Laboratory Medicine

Raab, S., B.A. *University of Pennsylvania*, M.D. *State University of*
New York Health Science Center at Syracuse

Professor of Laboratory Medicine (Immunology)

Grant, M., B.Sc., M.Sc. *British Columbia*, Ph.D. *McMaster*

Professor of Laboratory Medicine (Molecular Genetics)

Xie, Y.G., M.D. *Henan*, Dr.Med. *Zurich*, FCCMG *Queen's*; Cross
 appointments with the Discipline of Medicine, the Discipline of
 Pediatrics and the Discipline of Genetics

Associate Professor of Medicine & Laboratory Medicine (Hematology)

Whitman, L.A., B.Sc. *McGill*, M.D. *Memorial*, FRCPC

Associate Professor of Laboratory Medicine (Pathology)

Morris-Larkin, C., M.D. *Memorial*, FRCPC

Associate Professor Laboratory Medicine (Biochemistry)

Randell, E.W., Ph.D. *Memorial*, DCC, FCACB *Toronto*; Cross
 appointments with the Discipline of Genetics, the School of
 Pharmacy and the Department of Biochemistry

Associate Professor of Laboratory Medicine (Cytogenetics)

Han, F.Y., M.D. *Henan*, FCCMG *McGill*, Cross appointments with
 the Discipline of Pediatrics, the Discipline of Obstetrics &
 Gynecology and the Discipline of Genetics

Assistant Professors of Laboratory Medicine

Carter, B., M.D. *Memorial*, FRCPC
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 Taher A., M.D., FRCPC, FCAP

Associate Professor of Laboratory Medicine (Neuropathology)Barron, J., M.Sc., M.D. *Memorial*, FRCPC**Clinical Associate Professors of Laboratory Medicine**Denic, N., M.D., M.Sc., Ph.D., FRCPC *Belgrade*
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Anwar, S., M.D., ECFMG
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Morava-Protzner, I., M.D., Ph.D., FRCPC
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El Bailey, M., M.D.
Hossain, M., M.D.
Obenson, K., MBBS, DABPATH, FRCPC
O'Brien, A., B.Sc.(Chemistry), B.MedSc., M.D.
Rahmeh, T., M.D.
Rajappannair, L., M.D.
Umar, I., M.D.**Oncology**www.med.mun.ca/getdoc/c15d1ab5-5459-4b8d-8a0c-4ee7765b3a8f/Home.aspx**Professor and Chair**Saltman, D.L., M.D. *Memorial*, Ph.D. *Edinburgh*, FRCPC**Associate Professor of Oncology**Laing, K., M.D. *Memorial*, FRCPC
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Stuckless, T., M.D., *Memorial*, FRCPC
Tompkins, B., M.D. *Memorial*, FRCPC**Clinical Associate Professor Oncology (Medical Oncology)**McCarthy, J., M.D. *Memorial*, FRCPC**Clinical Assistant Professors Oncology (Medical Oncology)**Ahmad, C., M.B., B.S., FRCPC
Powell, E., B.A., B.Sc., M.D. *Memorial*
Rorke, S., M.D. *Memorial*, FRCPC
Siddiqui, J., M.B., B.S., FRCPC**Clinical Assistant Professor Oncology (General Practitioner of Oncology)**Hayward L.A., B.Sc. (Hon), M.D. *Memorial*, CCFP**Clinical Assistant Professor Oncology (Palliative Care)**O'Shea, F., M.B., Bc.H., BAO, LRCPSI & NUI, ABHPM *Ireland***Clinical Assistant Professor Oncology (Pharmaceutical Sciences)**Edwards, S., B.Sc.(Pharm.) *Memorial*, Pharm.D. *University of Washington***Cross Appointed from Genetics**Savas, S., B.Sc., M.Sc., Ph.D. *Bogazici, Turkey***Cross Appointed from Biomedical Sciences**Gendron, R., B.Sc., Ph.D. *McGill*
Larijani, M., Ph.D. *Toronto***Cross Appointed from Surgery**Hogan, M., B.Sc., M.D., FRCSC *Memorial*, M.Med. *University of Dundee*
Mathieson, A., B.Sc. (Hons), M.D. *Memorial*, FRCSC**Pediatrics**www.med.mun.ca/Pediatrics/Home.aspx**Associate Professor & Chair**Vardy, C., M.D. *Memorial*, FRCPC**Professor of Pediatrics (Neonatology)**Andrews, W., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCPC**Associate Professors of Pediatrics**Barter, O.J., M.D. *Memorial*, FRCPC
Bridger, T., M.D. *Memorial*, FRCPC
Buckley, D., M.B., Ch.B. *Sheffield*, F.R.A.C.P. *Australia*, FRCPC
Curtis, J.A., M.B., B.Ch., B.A.O. *Cork*, M.R.C.P. *UK*, FRCPC
Dancey, P., M.D. *Memorial*, FRCPC
Drover, A., M.D. *Memorial*, FRCPC
Morris, R.F., M.D. *Memorial*, FRCPC
Newhook, L.A., M.D. *Memorial*, FRCPC**Assistant Professors of Pediatrics**Bridger, N., M.D. *Memorial*, FRCPC
Critch, J., M.D. *Memorial*, FRCPC
Deshpandey, A.K., M.D. *Gandhi Medical College*, MBBS
Dominic, A., M.D. *Memorial*, FRCPC
Doyle, T., M.D. *Memorial*, FRCPC
Hickey, D., M.D. *Memorial*, FRCPC
Martin, J., M.D. *Memorial*
O'Brien, C., M.D. *Memorial*, FRCPC
O'Dea, J., M.D. *Memorial*, FRCPC
Porter, R., M.D. *Memorial*
Sathya, P., M.D. *McMaster*, FRCPC
Shah, S., M.B., Ch.B. *Makerere*, M.Med.(Pediatrics), FRCPC
Waheed, S.B., M.D. *Dow Medical College, Karachi, Pakistan*, FRCPC, FAAP**Assistant Professor of Pediatrics (Research)**Chafe, R., M.A., Ph.D. *Memorial***Professor (Psychology)**Adams, R.J., B.A. *Concordia*, Ph.D. *McMaster***Associate Professor (Psychology)**Courage, M.L., B.A. *Memorial*, M.Sc. *Alberta*, Ph.D. *Memorial***Clinical Associate Professors of Pediatrics**Cheriyian, M., M.B.B.S. *Nagpur*, MRCP (UK), FRCPC
Kamra, P., M.B., B.S. *Punjab*, FRCPC
Muram, B., M.B., B.S. *India*, FRCPC
Hamed, A., M.B., B.Ch. *Cairo*, M.Sc.(Immunology) *Memorial*, FRCPC**Clinical Assistant Professors of Pediatrics**Akhtar, Y., M.B.B.S. *University of the Punjab - Fatima Jinnah*, FRCPC
Aladetoyinbo, A. MBBS *Nigeria*
Alam, M., M.B.B.S. *Pakistan*, FRCPC
Alexander, W.J., M.D. *Memorial*, FRCPC
Bowes, L., M.D. *Memorial*, FRCPC
Bula, L., M.D.
Chrappa, J., M.D. *Bratislava*, FRCPC
Crosbie, V., M.D. *Memorial*, FRCPC
Dickinson, M., M.D. *University of Toronto*, FRCPC
Downton, G., M.D. *Memorial*, FRCPC
Engelbrecht, W., M.B., Ch.B. *University of Orange Free State*
Feener, T., M.D. *Memorial*
Goodyear, L., M.D. *Memorial*, FRCPC
Guntamukkala, P., M.B.B.S. *India*, FRCPC
Hand, J., M.D. *Memorial*, FRCPC
Healey, A., M.D. *Memorial*, FRCPC
Henderson, K., M.D. *Dalhousie*, FRCPC
Hughes, D.M., M.D., FRCPC
Javed, F., M.D. *Pakistan*

Kelly, M., M.B., B.Ch., BAO *Dublin*, FRCPC
 Kemp, I., M.B., Ch.B. *South Africa*, FRCPC
 Kwa, P.G., M.D. *Taiwan*, FRCPC
 Lambert, T.B., M.D. *Memorial*, FRCPC
 Luscombe, S., M.D. *Memorial*
 Marshall, I., M.D. *Memorial*
 McKenna, M., M.D. FRCPC
 Meek, D.C., M.B., B.Ch. *Cardiff (Wales)*, FRCPC
 Murphy, A., M.D., FRCPC, FAAP
 Nicholson, M., M.D., FRCPC
 Ojay, C.R. *West Indies*
 Paras, E., *Istanbul (Turkey)*, FRCPC
 Reid, D., B.Sc. *Dalhousie*, M.D. *Memorial*, FRCPC
 Sanderson, S., *Toronto*, FRCPC
 Smith, M.J., M.D. *McMaster University*, FRCPC
 Stewart, W., M.D. *Calgary*, FRCPC
 VanGelder, R.J., M.D. *Amsterdam*
 Vivian, L., M.D. *Memorial*, FRCPC
 Zuin, C., M.B.B. Ch. *National University of Cordoba*, FRCPC

Clinical Lecturers of Pediatrics

Bessell, C., R.N., B.Ed.(Voc.) *Memorial*
 Rolfe, J., B.N. *Memorial*, M.Sc. *New York*
 White, S., B.N. *Memorial*

Cross Appointed from Laboratory Medicine

Han, F.Y., M.D. *China*
 Xie, Y.G. M.D. *Hanan*, Dr.Med. *Zurich*

Cross Appointed from Medicine

Hodgkinson, K., Ph.D. *Memorial*
 Landells, I.D.R., B.Med.Sc., M.D. *Memorial*, FRCPC

Cross Appointed from Surgery

Price, D.I., B.Med.Sc., M.D. *Memorial*, FRCSC

Adjunct Professors

Acott, P., B.Sc. *New Brunswick*, M.D. *Dalhousie*
 Crocker, J., B.Sc. *King's College*, M.D. *Dalhousie*, FRCPC

Professional Associate of Pediatrics

Murphy, P.

Psychiatry

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Professor and Chair

Callanan, T.S., B.Sc., M.D. *Memorial*, Dip.Psych. *McGill*, FRCPC;
 Cross appointed to Counselling Centre

Professor

Muhammad, A., M.B.B.S. *Dow*, MRCPsych, FRCP, Ph.D. *Anglia University*, BCPsych, DPM, DCP, MCPS

John Clinch Professor of Medical Humanities and History of Medicine

Connor, J., B.Sc. *Guelph*, M.A. *Western Ontario*, M.Phil., Ph.D. *Waterloo*

Associate Professor (Medical Humanities)

Connor, J., B.A. *Guelph*, M.A. *York*, M.Phil. *Waterloo*, Ph.D. *Western Ontario*; Cross appointed to Department of History

Associate Professors of Psychiatry

Adey, T., M.D. *Memorial*, FRCPC
 Craig, D.F., B.Sc. *McGill*, M.D. *Alberta*, FRCPC
 Hasnain, M., M.B.B.S. *Rawalpindi Medical College*, DABPN
 LeDrew, K., M.D. *Memorial*, FRCPC

Associate Professors of Child and Adolescent Psychiatry

St. John, K., B.Sc. *Mount Allison*, B.Med.Sc., M.D. *Memorial*, FRCPC
 White, H.P., B.Sc., M.D. *Memorial*, FRCPC

Associate Professor of Forensic Psychiatry

Ladha, N.B., M.B. *Dublin*, FRCPC, DABPN

Associate Professor of Psychiatry (Clinical Epidemiology)

Mugford, G., B.Sc., Ph.D. *Memorial*

Associate Professor (Cross Appointment from Pharmacy)

Phillips, L., B.Sc.(Pharm.) *Memorial*, Pharm.D. *British Columbia*

Associate Professor (Cross Appointed from Family Medicine)

Tarrant, G.M., M.D. *Memorial*, CCFP, FCFP, CGPP

Associate Professor (Joint Appointment with Biological Psychiatry)

Chen, X., M.B. *China*, Ph.D. *Cambridge*

Assistant Professors of Psychiatry

Hearn, T., B.A., M.Sc., M.D. *Memorial*, FRCPC
 Luscombe, K., M.D. *Memorial*, FRCPC
 Lynch, S., B.Sc., M.D., *Memorial*, FRCPC
 Noble, S., M.D. *Queen's*, FRCPC
 Penney, A., M.D. *Memorial*, FRCPC
 Radu, G., M.D. *Carol Davila University*, M.B.A. *University of Liverpool*, FRCPC

Assistant Professor of Child and Adolescent Psychiatry

Bonnell, W., B.Sc., M.D. *Memorial*, FRCPC

Assistant Professors (Cross Appointments from Psychology)

Francis, S., B.A., M.A., Ph.D. *University of Hawaii*
 Mezo, P., B.Sc., Ph.D. *University of Hawaii*

Adjunct Professor of Psychiatry

Karagianis, J.L., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Associate Professors of Psychiatry

Angel, J., M.D. *Memorial*, FRCPC
 Hogan, M.W., B.A. *St. Mary's*, M.D. *Dalhousie*, FRCPC
 Noseworthy, G., M.D. *Memorial*, FRCPC

Clinical Associate Professor of Psychiatry (New Brunswick)

Morehouse, R., M.D. *Dalhousie*, FRCPC

Clinical Associate Professors of Child and Adolescent Psychiatry

Hassuk, B., M.D. *University of Vermont College of Medicine*, DABPN
 Maddigan, B., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professors of Psychiatry

Attwood, D., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCPC
 Brace, A.W., M.D. *Memorial*, FRCPC
 Broaders, M., M.D. *Memorial*, FRCPC
 Caravan, C., M.D. *Memorial*, FRCPC
 Collins, D., B.Med.Sc., M.D. *Memorial*, FRCPC
 Dolezalek, J., M.D. *Comenius University*, FRCPC
 Gill, J., B.Sc., M.Sc., *McGill*, M.D. *Memorial*, FRCPC
 Hickey, C., B.Sc., M.D. *Memorial*, FRCPC
 Hogan, K., M.D. *Memorial*, FRCPC
 Jat, K., M.B.B.S. *University of Sindh*, FRCPC
 Kennedy, N., M.D. *Memorial*, FRCPC
 MacLaughlin, D., B.Med.Sc., M.D. *Memorial*, FRCPC
 Martins, I., B.Med.Sc., M.D. *Memorial*, FRCPC
 Mekawy, M., M.B., Ch.B. *Alexandria University, Egypt*, DABPN
 Ngungu, J., M.B., Ch.B. *University of Zambia*, MRCPsych
 O'Keefe, E., B.Sc., M.D. *SABA University School of Medicine*, FRCPC
 Patel, S., MB BCh. BAO, *University College Dublin*, FRCPC
 Porter, A., M.D. *Memorial*, FRCPC
 Pratt, D., B.Sc., M.D. *Memorial*, FRCPC
 Rayel, M., M.D. *La Salle University, Philippines*, DABPN
 Sayeed, R., M.B.B.S. *Dow Medical College*, DABPN, FRCPC
 Vokey, K., M.D. *Memorial*, FRCPC
 Walsh, C., M.D. *Memorial*, FRCPC
 Weiner, M., M.D. *Poland*, FRCPC
 Young, N., M.B.A., M.D. *Memorial*

Clinical Assistant Professor (Neuropsychiatry)

Mirola, H., M.D. *Catholic University of Cordoba*

Clinical Assistant Professors of Psychiatry (New Brunswick)

Aicher, J., BES(Hons.) *Waterloo*, M.D. *McMaster*, MPH, MCRP
University of California at Berkeley
 Bryniak, C., B.Sc. *Mount Allison*, M.D. *Memorial*, FRCPC
 Doucet, J., M.D. *Memorial*, FRCPC
 Faridi, A., M.D. *Punjab*
 Fostey, A., B.Sc. *Toronto*, M.D. *SABA*
 John, O.E., B.Sc., M.B.B.S. *Trivandrum Medical College, India*, FRCPC
 Joshi, V.S., MB.B.S. *Bombay University, India*
 Onuora, A.N., M.B.B.S. *University of Ibadan, Nigeria*, MRCPsych
 Potter, L., B.Sc., M.D. *Memorial*, FRCPC
 Rowe, H.S., M.D. *University of Glasgow*, FRCPC

Satyanarayana, S., B.Sc.(Hons.) *Mount Allison*, M.D. *Dalhousie*,
FRCPC
Shamsuddin, S., MBBS *Bangalore Medical College*
Smith, W.S., M.D. *Dalhousie*, FRCPC
Sullivan, G., B.Sc., M.D. *University of Kentucky*, FRCPC
Thompson, S., B.Sc., M.D. *Dalhousie*, FRCPC
Tran, S., M.D. *Dalhousie*, FRCPC
Yuzda, E., B.Sc., M.Sc., M.D. *Calgary*, FRCPC

Clinical Assistant Professors of Child and Adolescent Psychiatry

McWilliam, T., M.D. *Memorial*, FRCPC
Rajan, R., M.B.B.S. *Mangalore*, FRCPC
Reid, C., M.D. *Memorial*, FRCPC
Snelgrove, C., M.D. *Memorial*, FRCPC
Wheeler, L., B.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professor (Clinical Psychology)

Khalili, H., B.S. *Tehran*, M.S., M.B.A. *Kansas*, Ph.D. *Iowa*

Clinical Lecturers (Clinical Psychology)

Hillier, C., B.A. *Manitoba*, M.Sc. *Acadia*
Rodgers, G., M.Sc. *Memorial*
Simpson, M., B.Sc.(Hons.), M.Sc. *Memorial*
Woodrow, J., B.Sc.(Hons.), M.Sc. *Memorial*

Clinical Lecturer (Social Work)

Oldford, J., B.A. *Memorial*, M.Sc. *Toronto*

Radiology

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Professor and Chair

Cramer, B.C., M.B., B.Ch., M.R.C.P. (UK), F.R.C.R. (UK), FRCPC

Professor of Radiology

Kendall, E., B.Sc., M.Sc. *Dalhousie*, Ph.D. *Guelph*

Professor of Radiology (Nuclear Medicine)

Wesolowski, C., M.D. *Poland*, FRCPC

Clinical Professor of Radiology (Nuclear Medicine)

Hollett, P., M.D. *Memorial*, FRCPC, A.B.N.M.

Clinical Associate Professors of Radiology

Bartlett, P.J., M.D. *Memorial*, FRCPC
Bhatia, R.S., M.D. *McMaster*, FRCPC
Collingwood, P.W., M.D. *Memorial*, FRCPC
Jeon, P.M., M.D. *Memorial*, FRCPC
Wadden, N.A.T., B.Sc., M.D. *Memorial*, FRCPC

Clinical Assistant Professor of Radiology (Combined Diagnostic Radiology and Nuclear Medicine)

Jefford, C., M.D. *Memorial*, FRCPC, A.B.N.M.

Clinical Assistant Professors of Radiology

Bailey, G.A., M.D. *Memorial*, FRCPC
Battcock, S.G., M.D. *Memorial*, FRCPC
Colbert, D., M.D. *Memorial*, FRCPC
Cook, R., M.D. *Memorial*, FRCPC
Gullipalli, R., M.B.B.S., M.R.C.S., F.R.C.R.
Hache, N., M.D. *Memorial*, FRCPC
Hapgood, C., M.D. *Memorial*, FRCPC
Harley, R.J., M.D. *Memorial*, FRCPC
Harris, S.R., M.D. *Memorial*, FRCPC
Hartery, A., M.D. *Memorial*, FRCPC
Heale, R., M.D. *Memorial*, FRCPC
Higgins, G.C., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCPC
Hopkins, J.G., M.D. *Memorial*, FRCPC
Jackman, S., M.D. *Memorial*, FRCPC
Jenkins, S., M.D. *Memorial*, FRCPC
Lombard, J., M.D. *Memorial*, FRCPC
Major, A.C., M.D. *Memorial*, FRCPC
Martin, B., M.B., B.Ch., B.A.O. *N.U.I.*, FRCPC
Mercer, E., M.D. *Memorial*, FRCPC
O'Keefe, J.B., M.D. *Memorial*, FRCPC
Peckham, D., B.Med.Sc., M.D. *Memorial*, ABR
Pickles, A., M.D. *Memorial*, FRCPC
Pike, E.J., M.D. *Memorial*, FRCPC
Pilgrim, B., M.D. *Memorial*, FRCPC
Rendell, M.J., M.D. *Memorial*, FRCPC
Sala, E., B.Sc., M.D. *Memorial*, FRCPC
Walsh, E.A., M.D., B.Ch., B.A.O. *N.U.I.*, M.R.C.P.I. *Ireland*,

L.M.C.C., FRCPC

Surgery

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Associate Professor and Chair

Boone, D.C., M.D. *Memorial*, FRCSC

Professor of Surgery

Pollett, W.G., B.Sc., M.D. *Dalhousie*, FRCSC

Associate Professors of Surgery

Gardiner, P., B.Sc., M.D. *Dalhousie*, FRCSC
Pace, D., B.Sc. *Acadia*, M.B.A. *Dalhousie*, M.D. *Memorial*, FRCSC
Stone, N.C., B.Med. Sc., M.D. *Memorial*, FRCSC

Assistant Professors of Surgery

Bohacek, L., B.Sc.(Hons) *Guelph*, M.D. *Toronto*
Furey, A., B.Sc., M.D., M.Sc. *Memorial*, FRCSC
Hogan, M.P., B.Sc., M.D. *Memorial*, M.Med.Ed. *Dundee*, FRCSC;
Cross appointed to Discipline of Oncology
Mathieson, A., B.Sc.(Hons.) *Dalhousie*, M.D. *Memorial*, FRCSC
O'Dea, F., B.Sc. *Mt. Allison*, M.D. *Memorial*, FRCSC
Wells, M.K., B.Sc.(Chem), B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Professors of Surgery

Fitzgerald, G., M.D. *Toronto*, FRCSC
Maroun, F.B., M.D. *Lebanon*, FRCSC

Clinical Professors (Retired)

Heughan, C., B.A.(Hons.), M.B., B.Chir. *Cambridge*, FRCSC
Kwan, A., B.Sc., M.D., C.M., M.Sc. *McGill*, FRCSC, F.A.C.S.
Payton, B.W., M.B., B.S., Ph.D. *London*

Clinical Associate Professors of Surgery

Akhtar, J., MBBS *Khyber Medical College*, FRCS (Ireland),
FRCSC
Felix, W.A., M.D. *Dalhousie*, FRCSC
Guy, J.R.F., M.D. *Dalhousie*, FRCSC

Clinical Associate Professor of Surgery (Ophthalmology)

Conway, V., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCSC

Clinical Associate Professors of Surgery (Otolaryngology)

Burrage, K., B.Sc., M.D. *Memorial*, FRCSC
Edgecombe, J.M., M.D., C.M. *Dalhousie*, FRCSC
Smith, T.J., M.D. *Dalhousie*, FRCSC

Clinical Associate Professor of Surgery (Pediatrics)

Price, D., B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Associate Professor of Surgery (Plastics)

Jewer, D.D., B.Sc.(Hons.), B.Med.Sc., M.D. *Memorial*, FRCSC
O'Brien, J., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Associate Professor of Surgery (Urology)

Best, L., M.D. *Autonoma de Guadalajara*, FRCSC

Clinical Associate Professors of Surgery (Orthopedics)

Lewis, B.D., B.Sc., M.D. *Memorial*, FRCSC
Noftall, F., B.Med.Sc., M.D. *Memorial*, FRCSC
Rockwood, P., B.Med.Sc., M.D. *Memorial*, FRCSC
Squire, D.S., B.Sc., M.D. *Memorial*, FRCSC

Clinical Associate Professor of Surgery (Neurosurgery)

Murray, G.P., B.Sc., M.Sc., B.Med.Sc., M.D. *Memorial*, FRCSC

Clinical Assistant Professors of Surgery (Orthopedics)

Abraham, E.P., B.Sc., M.D. *Dalhousie*, FRCSC
Connolly, S.H., B.Sc., M.D. *Dalhousie*, FRCSC
Deane, R.H., M.B., Ch.B. *Capetown*, FRCS *Glasgow*, FRCS *South Africa*, FRCSC
Fletcher, J.A., B.Sc., B.Ed., M.D. *Dalhousie*, FRCSC
Hogan, T.G., B.Sc., M.D. *Memorial*, FRCSC
Jackman, H., B.Sc. *Mount Allison*, M.D. *Memorial*, FRCSC
Kerr, D.A., B.Sc., M.D. *Dalhousie*, FRCSC
Manson, N.A., B.Sc.(H.Kin.), B.Sc.(Med.), M.D. *Dalhousie*, FRCSC
Martin, R., B.Sc., B.Med.Sc., M.D. *Memorial*, FRCSC
Russell, R., B.Med.Sc., M.D. *Memorial*, FRCSC
Sahajpal, V., B.Sc. *UPEI*, M.D. *UWO*, FRCSC
Trenholm, J.A.I., B.Sc., M.D. *Dalhousie*, FRCSC
Tumilty, J., B.Sc., M.D. *Dalhousie*, FRCSC
Wagg, J.P., B.Sc., M.D. *Dalhousie*, FRCSC

Clinical Assistant Professors of Surgery

Attard, J.P., B.Sc.(Hons.), M.D. *Dalhousie*, FRCSC
 Blackwood, P.J., B.Med.Sc., M.D. *Memorial*, FRCSC
 Browne, G.N., B.Med.Sc., M.D. *Memorial*, FRCSC
 Cox, C.R., B.M.Sc., M.D. *Memorial*, FRCSC
 Farrell, R., B.Sc., M.D. *Memorial*, FRCSC
 Heneghan, P.D., B.Sc., M.D. *Memorial*, FRCSC
 Johnston, B., B.Sc., M.D. *Dalhousie*, FRCSC
 Mackenzie, D.S., B.Med.Sc., M.D. *Alberta*, FRCSC
 Mann, C., B.Sc. *Mount Allison*, M.D. *Dalhousie*, FRCSC
 Mowatt, J.A., B.Sc. *Kings College*, M.D. *Dalhousie*, FRCSC
 O'Driscoll, M.F., B.Sc. *St. Francis Xavier*, B.Ed., B.Eng.,
 B.Med.Sc., M.D. *Memorial*, FRCSC
 Roger, J., M.D. *Karl Franzens*, FRCSC
 Scarth, H., B.Sc. *Dalhousie*, M.Sc. *UWO*, M.D. *Toronto*, FRCSC
 Stiles, G., B.A. *U.N.B.*, M.D. *Dalhousie*, FRCSC
 Thavanathan, M.J.M., M.B., B.S. *Sri Lanka*, FRCSC

Clinical Assistant Professor of Surgery (Cardiac & Vascular)

Melvin, K., B.Sc. *Memorial*, M.D. *Dalhousie*, FRCSC

Clinical Assistant Professors of Surgery (Neurosurgery)

Avery, R., B.M.Sc., M.D. *Memorial*, FRCSC
 Engelbrecht, H.A., M.D. *University of the Free State*, FCS(SA)

Clinical Assistant Professors of Surgery (Plastics)

Cluett, J., M.D. *Memorial*, FRCSC
 Fitzpatrick, D.G., B.Sc.(Hons.), B.Ed., B.Med.Sc., M.D. *Memorial*,
 FRCSC
 Rideout, A., B.Sc. *Kings*, B.Sc.(Hons) *Dalhousie*, M.D. *Memorial*,
 FRCSC

Clinical Assistant Professors of Surgery (Ophthalmology)

Bautista, D.V., B.Sc.(Chemistry), B.Med.Sc., M.D. *Memorial*,
 FRCSC
 Bense, M., M.B., Ch.B. *Pretoria*, FRCSC
 Dunphy, D., B.Eng., B.Med.Sc., M.D. *Memorial*, FRCSC
 Jackman, C.S., B.Sc.(Hons.), M.D. *Memorial*, FRCSC
 McNicholas, J., B.Sc., M.D., FRCSC
 Murphy, B., B.M.Sc., M.D. *Memorial*, FRCSC
 Whelan, J.H., B.S., B.Med.Sc., M.D. *Memorial*, FRCSC
 Williams, K.B., B.Sc., M.D. *Memorial*, D.O. *New England College*
of Optometry, FRCSC

Clinical Assistant Professors of Surgery (Otolaryngology)

Fowler, R., B.Med.Sc., M.D. *Memorial*, FRCSC
 Lee, B.S., B.Sc., M.D. *Dalhousie*, FRCSC
 Tjan, E.T., M.D. *Taiwan*, FRCSC

Clinical Assistant Professors of Surgery (Urology)

Drover, D.N., B.A., B.Med.Sc., M.D. *Memorial*, FRCSC
 Duffy, G., B.Sc., M.D. *Memorial*, FRCSC
 French, C., B.Sc., M.D. *Memorial*, FRCSC
 Hewitt, R., B.Med.Sc., M.D. *Memorial*, FRCSC

Cross Appointed from the Discipline of Genetics

Green, J., M.Sc. *British Columbia*, Ph.D. *Memorial*

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Associate Dean

Mulay, S., Ph.D., M.Sc. *McGill*, B.Sc. *Delhi, India*

Professors Emeriti

Fodor, J.G., M.D., Ph.D. *Prague*, FRCPC
 West, R., M.Sc., Ph.D. *McGill*

Honorary Research Professors

Bavington, W., B.A. *Graceland College*, M.D. *Toronto*, D.T.M.H
Liverpool, M.P.H. *Johns Hopkins*, F.A.C.P.M., FRCPC
 Buehler, S., A.B. *Illinois College*, M.A. *Indiana*, Ph.D. *Memorial*
 Crellin, J., B.Pharm., L.R.C.P., M.P.S., M.R.C.S., M.Sc., Ph.D.,
London

Professors

Gadag, V., B.Sc., M.Sc. *Karnatak*, M.Phil., Ph.D. *Poona*;
 Biostatistics; Cross appointed to Department of Mathematics
 and Statistics
 Mulay, S., B.Sc. *Delhi, India*, M.Sc., Ph.D. *McGill*; Community
 Health
 Pullman, D., B.R.E. *Briercrest*, B.Ed. *Western*, M.Div. *Biola*, M.A.,

Ph.D. *Waterloo*; Health Care Ethics; Cross appointed to
 Department of Philosophy
 Wang, P., Ph.D., M.D., M.P.H. *China*; Epidemiology

Associate Professors

Audas, R., B.B.A. *New Brunswick*, M.B.A., M.A. *Dalhousie*, Ph.D.
Wales; Health Statistics and Economics
 Beausoleil, N., B.A. *Laval*, M.A., Ph.D. *UCLA*; Social Science and
 Health
 Gustafson, D., B.A. *McMaster*, M.Ed. *Brock*, Ph.D. *Toronto*; Social
 Science and Health
 Brunger, F., B.A.(Hons.) *Winnipeg*, M.A., Ph.D. *McGill*; Health
 Care Ethics
 Donovan, C., B.Med.Sc., M.D. *Memorial*, M.H.Sc. *British*
Columbia; Public Health
 Mathews, M., B.Sc., B.A. *Calgary*, M.H.S.A. *Alberta*, Ph.D.
Toronto; Health Policy/Health Care Delivery; Winner of the
 President's Award for Outstanding Research 2010-2011
 Neville, D., B.N. *Memorial*, M.Sc.N. *Toronto*, S.M., Sc.D. *Harvard*;
 Health Care Policy and Delivery (on leave)
 Roebathan, B., B.Sc., Ph.D. *Memorial*, M.Sc. *Saskatchewan*;
 Nutrition/Dietetics

Assistant Professors

Kaposy, C., B.A. *McMaster*, M.A. *Concordia*, Ph.D. *State*
University of New York; Health Care Ethics
 Maddalena, V., Ph.D. *MHSA*, B.N. *Dalhousie*; Health Policy/Health
 Care Delivery; Cross appointed to Nursing
 Sarkar, A., MBBS *Burdwan*, MCH & Ph.D. *JNU, New Delhi*, MES
Queen's; Environment and Occupational Health
 Schiff, R., Ph.D. *Australia*, D.Env., B.Mus. *McGill*; Aboriginal
 Health
 Valcour, J., B.Sc., M.Sc., Ph.D. *Guelph*; Epidemiology
 Yi, Y., B.Sc., M.Sc. *China*, M.Sc., Ph.D. *Manitoba*; Biostatistics/
 Quantitative Research; Cross appointed to Department of
 Mathematics and Statistics

Clinical Professors

Godwin, M., M.D. *Memorial*, C.C.F.P., M.Sc. *Queen's*; Cross
 appointed from Discipline of Family Medicine
 Ratnam, S., M.Sc. *Madras*, Ph.D. *Delhi*; Cross appointed from
 Discipline of Laboratory Medicine

Clinical Associate Professor

Allison, D., M.D. *Queen's*, FRCP

Clinical Assistant Professors

Barrowman, B., B.Sc. *Queen's*, LL.B. *Toronto*, M.D. *Memorial*
 Doyle, M., B.A., Ph.D. *Memorial*, M.A. *Guelph*
 Elliott, P., M.B.A., Ph.D. *Memorial*
 McNeill, L., M.A. *Laurentian*, B.A. *University of New Brunswick*
 Woodrow, J., B.Sc., Ph.D. *Memorial*

Clinical Lecturer

Varghese, S., M.Sc. *Memorial*; Community Health

Canada Research Chairs, Tier II

Traverso, M., Ph.D. *Spain*, B.A. *Ecuador*; Health Promotion and
 Community Development
 Young, W., B.Sc. *Trent*, M.A. *Ontario*, Ph.D. *Toronto*; Healthy
 Aging; Joint appointed with Nursing

Joint Appointments

Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*; Associate
 Professor; Joint appointed with Counselling
 Kearney, A., B.N., Ph.D. *Memorial*, M.H.Sc. *Toronto*; Associate
 Professor; Joint appointed with Nursing

Cross Appointments

Asghari, S., M.D. *Arak (Iran)*, Ph.D., MPH *Tehran (Iran)*; Discipline
 of Family Medicine
 Bornstein, S., Ph.D., M.A. *Harvard*, B.A. *Toronto*; Director, Centre
 for Applied Health Research
 Simms, A., B.A. *Memorial*, M.Sc., Ph.D. *Calgary*; Geography

Professional Associates

Ramlackhansingh, J., MBBS, *West Indies*, MPH, *Manchester*
 Stares, J., B.Sc., *Memorial*, M.H.Sc. *University of Toronto*
 Wright, E., M.Sc. *McGill*, B.N., B.Sc. *Memorial*

Adjunct Professors

Hanrahan, M., Ph.D. *London, U.K.*, M.A. *Ottawa*, B.A. *Memorial*
 MacDonald, D., Ph.D., M.Sc., B.Sc. *Memorial*
 McDonald, P., B.A. *Memorial*, LL.B. *Osgoode Hall*

Sturge Sparkes, C., Ph.D. *McGill*, M.Ed., B.Ed. *Memorial*, B.Mus.
Mount Allison; Program Coordinator, Aboriginal Health Initiative

Professional Development and Conferencing Services (PDCS)

www.med.mun.ca/pdcs/

Vice Dean

Peters, S., M.D. *Memorial*, MPH *Milwaukee*, FRCPC

Assistant Dean

Bursey, F., B.Sc., M.D. *Memorial*, FRCPC

Director, Academic Development For Specialists

Fox, G., M.D. *Memorial*, M.Sc. *Western Ontario*, FRCPC, FCCP

Director, Academic Development (Family Physicians)

Snow, P., M.D., B.N. *Memorial*, C.C.F.P.

Director, Research and Development

Curran, V.R., B.A. *Memorial*, Dip.Ad.Ed. *St. Francis Xavier*, M.Ed.
Dalhousie, Post Grad. Cert. *British Columbia*, Ph.D. *Guelph*

Director, Assessment and Retraining

Bannister, E., B.Comm., M.D. *Memorial*

Director, CSAT Program

Sparrow, C., M.D. *Memorial*, C.C.F.P., F.C.F.P.

Director, Professional Development and Conferencing Services

Kirby, F., B.Sc., B.Ed., M.Ed. *Memorial*

Centre for Collaborative Health Professional Education (CCHPE)

www.med.mun.ca/cchpe/home.aspx

Professor of Medical Education

Curran, V.R., B.A. *Memorial*, Dip.Ad.Ed. *St. Francis Xavier*, M.Ed.
Dalhousie, Post Grad. Cert. *British Columbia*, Ph.D. *Guelph*

Centre for Offshore & Remote Medicine (MEDICOR)

www.med.mun.ca/Medicor/Home.aspx

Medical Director

LeDez, K., M.B., Ch.B. *Dundee*, FRCPC

Technical Director

Decker, D., B.Comm., Diving Safety Specialist

Associate

O'Shea, C., L.R.C.P.S. and P.I. *Dublin*, M.D.
 Zbitnew, G., B.Sc., M.D. *Alberta*, FRCPC

Health Sciences Library

www.library.mun.ca/hsl/index.php

Associate University Librarian (Health Sciences)

Beckett, G., B.A. *Simon Fraser University*, M.L.S. *McGill*

Head, Public Services

Barnett, L., B.Sc. *McGill*, M.L.I.S. *Dalhousie*

Librarians

Fahey, S., B.A.(Hons.) *Memorial*, M.L.I.S. *McGill*
 Farrell, A., B.A. *Acadia*, M.L.I.S. *Dalhousie*
 Glynn, L., B.A. *Memorial*, M.L.I.S. *UBC*
 Gordon, S., B.A. *Memorial*, M.L.I.S. *Western*
 Morgan, P., B.A.(Hons.), M.B.A. *Memorial*, M.L.I.S. *McGill*

Medical Education and Laboratory Support Services

www.med.mun.ca/Melss/Home.aspx

Manager

Evelly, E., R.T.

Health Sciences Information and Media Service

www.med.mun.ca/hsims/home.aspx

Director

O'Neill, S., B.Sc. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Background

The Faculty of Medicine of Memorial University of Newfoundland is one of 17 Canadian medical schools and was one of the four schools suggested by the Hall Royal Commission on Canadian Health Services in its 1964 report.

A series of meetings was begun in 1963 between representatives of Memorial University of Newfoundland, the Newfoundland Medical Association, and the Department of Health of the Government of Newfoundland and Labrador. Following the Hall Commission's recommendation and on the basis of positive advice from Dr. J. Wendell MacLeod, Executive Secretary of the Association of Canadian Medical Colleges, and Dr. Chester B. Stewart, Dean of Medicine at Dalhousie University, Halifax, Nova Scotia, Memorial University of Newfoundland established a Commission in 1965 to undertake a feasibility study. The late Dr. J.A. MacFarlane, formerly Dean of Medicine at the University of Toronto, and a member of the Hall Royal Commission served as chairman. The MacFarlane Commission's recommendation that a Medical School be established at Memorial University of Newfoundland was confirmed independently by a Royal Commission on Health Services for Newfoundland and Labrador. The chairman of this latter Commission, Lord Brain, an eminent British medical educator, and his advisors, reported that the location of a medical school in the Province was a necessary step in the provision of adequate medical services for Newfoundland.

Dr. Ian Rusted, a local physician who had been involved in the early negotiations and had taken the initiative in introducing continuing medical education for doctors in the Province, was appointed Dean of Medicine in 1967. Under his leadership, faculty members were recruited, the undergraduate program was initiated and the first medical students were admitted in 1969. The existing programs of postgraduate training and continuing medical education were strengthened and the spectrum of medical education was subsequently completed in 1971 with the initiation of a program of graduate studies leading to the degrees of M.Sc. and Ph.D.

The undergraduate curriculum was designed to foster integrated learning and to permit contact with patients early in the student's training. To facilitate this integrated approach the administration of the school was set up as a non-departmental system based on three Divisions: Community Health, BioMedical Sciences and Clinical Sciences.

Initially the Faculty of Medicine was housed in temporary buildings. With joint funding by the Federal and Provincial Governments, a Health Sciences Centre (HSC) was constructed on the North Campus of the University and was officially opened in 1978. This new building became home to the Faculty of Medicine General Hospital and the School of Nursing. Over time the building was expanded, and now it also houses the School of Pharmacy, the Janeway Children's Health and Rehabilitation Centre, the Dr. H. Bliss Murphy Cancer Centre and the Agnes Cowan Hostel. The Health Sciences Centre contains a comprehensive health sciences library, animal care and research facilities, plus an appropriate range of teaching facilities to accommodate large lectures and demonstrations, small group discussions and seminars, clinical skills and laboratory sessions. The structure of the Health Sciences Centre facilitates integration between basic scientists, clinicians and allied health workers in the hospital, the University and the community. Clinical

research facilities are located adjacent to basic research units and some research laboratories provide services in clinical investigation. Services such as cafeteria and stores are common to the Faculty of Medicine and the Eastern Regional Health Authority.

The General Hospital and Janeway Children's Health and Rehabilitation Centre are part of a network of teaching hospitals in St. John's and throughout the Province. The conventional use of major referral centres as teaching resources is complemented by the availability of regional and community hospitals to provide valuable clinical experience for undergraduate and postgraduate medical students.

In contrast to many other schools, the class size at the University's Medical School is small. This facilitates interaction between students and faculty, and has obvious advantages in clinical teaching. Normally 60 students are admitted annually to the first year of the undergraduate medical program.

Additional information regarding the Faculty of Medicine is available at www.med.mun.ca/medicine/home.aspx.

3 Mission and Objectives of the Faculty of Medicine

The Mission of the Faculty of Medicine is to enhance the health of the people of Newfoundland and Labrador by educating physicians and health scientists; by conducting research in clinical and BioMedical Sciences and applied health sciences and by promoting the skills and attitudes of lifelong learning

The objectives of the Faculty of Medicine are consistent with the objectives of Memorial University of Newfoundland in developing and maintaining excellence in the quality of its academic standards and of research, establishing programs to meet the expanding needs of the Province and of providing the means to reach out to all the people.

The Faculty seeks to attain these objectives through an organizational structure which allows optimum interaction among the various disciplines within the Medical School and with other Faculties and Schools as appropriate.

The term 'Medical School' refers to the wider organizational structure of the Faculty of Medicine with various healthcare, institutions, community organizations and other academic units with the University.

The specific objectives are:

1. To teach medical students to be physicians; and to provide such learning experiences as will inspire all medical graduates of the school to be prepared to practice medicine at the highest standards, serving all individuals and societies in the pursuit of health.
2. To acknowledge the special geography of this Province by encouraging the education of physicians with exemplary skills for rural practice.
3. To educate and train graduate and diploma students in the health sciences.
4. To provide postgraduate educational experiences in medicine and the medical sciences such that the graduating Canadian physicians will pursue further studies within the school's postgraduate programs, leading to certification in family medicine or specialist subjects, especially in those areas where deficiency in numbers is currently recognized or anticipated.
5. To instill within students at all levels:
 - a. The wish and the capacity to further the practice and science of medicine through the creation of new knowledge for the improvement of the health of the world's peoples.
 - b. The wish and the capacity to improve their own professional practice through continuing self-assessment and scholarship.
 - c. An appreciation of their evolving roles as members of a team of professionals possessing complementary skills.
6. To attract faculty members who will together:
 - a. Act as a resource in providing undergraduate, graduate, postgraduate, and continuing medical education.
 - b. Contribute to the advancement of educational methods.
 - c. Practice the highest quality of primary, secondary, or tertiary care medicine.
 - d. Show leadership in promoting research into the health of the individual and the community, including the organization of health care delivery systems.
 - e. Facilitate and promote education and research appropriate to our mid North-Atlantic environment.
7. To provide educational experiences in the health sciences to students from other Schools or Faculties of Memorial University of Newfoundland and of other educational institutions.
8. To provide Continuing Medical Education experiences which will help physicians to maintain and enhance their competence in medical skills.
9. To provide a learning environment for undergraduate, graduate, and postgraduate students of medicine and the medical sciences who are citizens of other countries.
10. Actively to provide an Informational, Educational and Consultative resource for the whole community.

4 Affiliated Teaching Sites

1. Within St. John's: (hospitals and other centres under the Eastern Regional Health Authority)
2. Outside St. John's: (hospital/community settings)
3. New Brunswick: (hospital/community settings)
4. Prince Edward Island: (community settings)

5 Description of Medical Training Program

The Faculty of Medicine offers a four-year undergraduate medical program, comprising a minimum of 186 credit hours, leading to the degree of Doctor of Medicine (M.D.).

The program begins with a two-year Pre-Clerkship. Courses covering topics in community health and clinical skills run throughout most of the Pre-Clerkship whereas basic science sessions occur early in the first year. Later in the first year of medical studies and continuing throughout most of the second year, students pursue an integrated study of disease. By the end of the Pre-Clerkship, students are expected to be able to take a patient's medical history, perform a thorough physical examination and to derive a logical diagnosis. The Clerkship Preparation Course is completed prior to commencing the Clerkship. The Clerkship comprises the remainder of the medical studies program. During this time students, who are clinical clerks, take courses that will allow them to alternate through major disciplines in hospital and community settings throughout affiliated teaching sites in Newfoundland and Labrador and community and hospital settings throughout Prince Edward Island and New Brunswick. Clinical clerks participate as members of the health care team gaining the knowledge and experience necessary to assume the responsibilities associated with patient care.

Medical students are required to participate fully in medical education experiences which occur at various times and communities outside of the St. John's metropolitan area throughout the undergraduate medical education program.

Upon successful completion of medical studies, the students are qualified to write Part I of the licensing examinations set by the Medical Council of Canada (MCC). After the award of the M.D. degree and following successful completion of one year of postgraduate training, they are qualified to write Part II of the MCC licensing examinations.

6 Continuing Medical Education

The Faculty of Medicine's Office of Professional Development and Conferencing Services delivers accredited continuing medical education (CME) programs and plays a major role in meeting the professional development needs of health care professionals throughout Newfoundland and Labrador and across Canada. CME is offered through a variety of formats, including teleconferencing, video-conferencing, online and onsite. Faculty development programs are designed specifically to assist faculty members in their own unique educational requirements. Educational assessments and retraining experiences are available to physicians, international medical graduates and health care practitioners who meet the criteria. The Office of Professional Development and Conferencing Services is committed to assisting students, faculty members, and physicians in meeting their educational requirements.

7 Postgraduate Medical Training Programs

Postgraduate medical training is offered in programs leading to certification by either the College of Family Physicians of Canada (CFPC) or the Royal College of Physicians and Surgeons of Canada (RCPSC). These are full-time training programs comprised of hands-on-practical training complemented by formal teaching and academic study. The programs are completed in a structured learning environment consisting of hospital and community based teaching units, supervised by faculty. The level of responsibility afforded the student is based on regular evaluation of abilities by faculty. The Postgraduate training programs are accredited by the CFPC or the RCPSC and the appropriate licensing authorities.

Postgraduate entry positions are available through the Canadian Residency Matching Service. For further information write to The CaRMS Office, Suite 802, 151 Slater Street, Ottawa, Ontario K1P 5H3, or by telephone to (613) 237-0075, or toll free to (800) 291-3727, or the website at www.carms.ca.

Medical students and residents are required to participate fully in medical education experiences which occur at various times and communities outside of the St. John's metropolitan area throughout the medical education programs.

7.1 Family Medicine/Emergency Medicine

The University offers a two-year residency in Family Medicine. This leads to eligibility for certification by the College of Family Physicians of Canada. Emergency Medicine is a one-year program of specialty training. Successful completion of this program will lead to eligibility to sit the CCFP EM certification examination in emergency medicine.

7.2 Other Residency Training Programs

Memorial University of Newfoundland offers specialty training programs in Anesthesia, Internal Medicine (and subspecialty in Nephrology), Neurology, Obstetrics/Gynecology, Orthopedics, Anatomic Pathology, Pediatrics, Psychiatry, Radiology and General Surgery.

Internal Medicine and Pediatrics offer a straight program in the first year of the training program. The normal period of training in Internal Medicine or Pediatrics is four years post-M.D.

In the remaining specialty programs offered by Memorial University of Newfoundland, broad-based clinical training is offered as the first year of the training program. The total length of each of these programs is five years.

7.3 Clinical Fellowships

A sixth year of postgraduate study (Clinical Fellowship) may be available to residents who have completed specialty training requirements. These fellowships may be primarily directed to the clinical area, to teaching, or to research.

7.4 Registration

Postgraduate Trainees are registered each year as full-time students of Memorial University of Newfoundland.

7.5 Licensure in Newfoundland and Labrador

All trainees must be eligible for and obtain an educational license from the College of Physicians and Surgeons of Newfoundland and Labrador (CPSNL). Advice will be provided by the Postgraduate Medical Education Office.

Information on requirements for International Medical Graduates is available through the website at www.med.mun.ca/pgme.

7.6 Evaluation

1. The planning of the residency programs, including the policy on evaluation, is the responsibility of the Postgraduate Medical Education Committee and is based on the accreditation requirements of the Royal College of Physicians and Surgeons of Canada and the College of Family Physicians of Canada. The Postgraduate Medical Education Committee reports to the Dean of Medicine through the Assistant Dean.
2. Each resident is expected to complete the work of the program as outlined by the program-specific Residency Training Committee for each year of the program and to meet the prescribed goals and objectives of the program. The Residency Training Committee is chaired by a Program Director who reports to both the Assistant Dean of Postgraduate Medical Education and the Chair of the clinical discipline.
3. For each rotation, evaluation of the resident's performance is conducted by the supervisor responsible for the resident during the rotation. Evaluation is based on written assessments and performance-based direct observation. The results of the evaluation are expressed through an In-Training Evaluation Report (ITER), which records the competency level of the resident for each goal and objective of the rotation.
4. There are three possible outcomes for a resident's rotation, based on the results of the ITER: satisfactory, unsatisfactory, or incomplete. Residents learn the results of the ITER through online software (one45) administered by the Postgraduate Medical Education Office and the individual programs.
 - a. If a resident receives a satisfactory outcome in a rotation, he/she proceeds to the next rotation in the training schedule.

- b. If a resident receives an unsatisfactory outcome in a rotation, the Residency Training Committee will design a remedial program to address the resident's area(s) of weakness. In some instances, the Committee may require the resident to repeat the entire rotation. Evaluation of the remedial program is adapted according to the goals and objectives to be achieved by the remedial program. If the resident receives an unsatisfactory evaluation in the associated remedial program, he/she will be placed on probation.
 - c. If a resident receives an incomplete outcome in a rotation, he/she will be required to complete the rotation.
5. If a resident receives an unsatisfactory evaluation for two rotations within one academic year, he/she will be placed on probation.
 6. A resident has the right to appeal decisions leading to remediation and probation in accordance with the Postgraduate Medical Education's Evaluation, Promotion and Appeals Policy.

7.7 Probation

1. The terms of the probationary period are outlined in a probation contract with the resident. The length of the probationary period is determined by the Residency Training Committee and excludes vacation time, sick leave, and leaves of absence.
2. Successful completion of a probationary period requires satisfactory evaluations for all portions of the probationary period.

7.8 Promotion

1. A resident's progress is monitored in each year by the Residency Training Committee. During the academic year, the resident meets with the Program Director (or designate) to review his/her ITERs - at six months and again at the end of the academic year. Based on these meetings, the Program Director prepares a Mid-Year Progress Report and an End-of-Academic-Year Report.
2. To successfully complete a postgraduate program, a resident must be promoted through each year of his/her program. The Residency Training Committee meets every year to review a resident's progress report(s). In some instances, the Committee may also review individual ITERs from the specific rotations. On the basis of this review, the Residency Training Committee decides which residents should be promoted to the next year and which residents are eligible to sit the national examinations of the Royal College of Physicians and Surgeons or the College of Family Physicians of Canada.

7.9 Dismissal

1. If a resident fails to successfully complete a probationary period, he/she will be dismissed from the program.
2. If a resident is recommended for probation twice during the program, he/she will be dismissed from the program.
3. The Faculty of Medicine reserves the right to require a resident to withdraw from a postgraduate program at any time with just cause. In such cases, the Dean, on behalf of the Faculty, recommends such withdrawal to the Registrar who will then take appropriate action. Any such action is subject to the right of appeal by the resident, in accordance with the Postgraduate Medical Education's Evaluation, Promotion and Appeals Policy.

8 Graduate Studies

Interdisciplinary interaction and research among the divisions of BioMedical Sciences, Community Health and Humanities and the Clinical Disciplines is promoted.

Programs have been designed to attract students interested in a Graduate Diploma or a M.Sc., M.P.H., Ph.D. or M.D-Ph.D. degree. Areas of strength include Applied Health Services Research, Cancer and Development, Cardiovascular and Renal Sciences, Clinical Epidemiology, Community Health, Human Genetics, Immunology and Infectious Diseases, Neurosciences, Nutrition/Dietetics, and Population/Public Health. Details of the graduate programs are provided in the School of Graduate Studies section of this Calendar.

9 Regulations for the Degree of Doctor of Medicine

9.1 Admission to the Faculty of Medicine

1. All applications for entry to the program of studies leading to the Doctor of Medicine (M.D.) degree are dealt with by the Admissions Office of the Faculty of Medicine and must be submitted to that office on or before the closing date (normally September 15th). No application received after this date will be considered. An application processing fee of \$75.00 is required from all applicants.
2. Applications are reviewed after the closing date by the Admissions Committee of the Faculty of Medicine. This Committee has the delegated authority of the Faculty Council to admit or decline to admit students, following guidelines and procedures acceptable to that Council.
3. Admissions will normally be to the first year of medical studies. In exceptional circumstances, admission with advanced standing may be offered.
4. Entry to medical school is on the basis of competition for a fixed number of places. The Admissions Committee takes account of an applicant's academic background, performance on the Medical College Admissions Test (MCAT) and information on an applicant's personal characteristics and achievements as given by the applicant, by referees' reports and, in some cases, by personal interviews. Age by itself is not used as a basis for selection or rejection. Both age and the length of time away from full-time studies may be taken into consideration. The residency status of each applicant at the time of the closing date for application (normally September 15) will be determined by guidelines established by the Admissions Committee and approved by Faculty Council. For each candidate, the residency status determined at that time will apply throughout the admissions process and the period of undergraduate medical education. Priority is given to applicants who are bona fide residents of this province.
5. The Admissions Committee's decision to admit or decline to admit an applicant will be made on the basis of the competition for entry in the year of application and will be determined by the Committee's judgement of the likelihood of an applicant succeeding in the academic and professional studies leading to the award of the M.D. and in the eventual practice of medicine.
6. To be eligible for admission, an applicant shall have completed a bachelor's degree including the prerequisite subjects of 6 credit hours in English at a recognized university or university college before admission.

In exceptional circumstances an application may be considered from someone who does not expect to hold a bachelor's degree at the time of admission. Such an applicant will have completed at least 60 credit hours including the prerequisite subjects of 6 credit hours in English at a recognized university or university college before admission and be a student who has work-related or other experience acceptable to the Admissions Committee.

No application will be considered from a candidate who cannot produce evidence that the above requirements have been met or will have been met by the time of entry to the Medical School.

In addition, all applicants must write the MCAT prior to the application deadline. The MCAT should be written within the preceding five years of the date of application.

7. Applicants need to be aware of the policy related to Essential Skills and Abilities Required for the Study of Medicine. This policy outlines essential skills and abilities needed to succeed in the M.D. program and it includes technical standards for students in the program and information for students with disability. This information is available on the Faculty of Medicine's website at www.med.mun.ca/Admissions/Application-Preparation.aspx.
8. Each applicant is responsible for ensuring that all the required information on the application form, e.g. transcripts, MCAT scores, referee's reports, is supplied to the Admissions Committee, and for providing any further information required by this Committee. An application is not considered complete until these documents have been received.
9. The Admissions Committee may request that a candidate attend an interview.
10. Notification of the Committee's decision will be made to candidates by letter signed by, or on behalf of, the Chair of the Admissions Committee. No other form of notification can be considered to be official.
11. The letter of acceptance will give the successful applicant fourteen (14) days in which to confirm that he/she will accept the place offered. The signed intention to accept the offered place must be accompanied by a deposit of \$200.00 which will be credited towards tuition fees. The deposit will be forfeited if the applicant subsequently declines the place.
If no reply to the offer of a place is received within fourteen days, the offer by the Faculty of Medicine will be withdrawn on the appropriate date, and the applicant will be informed of this by letter.
12. In order to register, applicants who have been accepted as international students will be required to sign a document indicating that they will pay differential fees throughout the undergraduate medical program and that they will have the status of non-Canadians in the postgraduate matching process.
13. The Admissions Committee, at its discretion, may grant deferral of admission for one year to a maximum of two successful applicants in the first round of offers for any one admission cycle. An applicant must request a deferred entry at the time of responding to an offer of admission. The first round of offers are normally confirmed by mid-May and requests for deferral are considered by mid-June.
14. Unsuccessful applicants who wish to reapply for admission are required to submit the application forms relevant to the year of re-application and will be required to enter the competition in that year. An unsuccessful applicant can meet with the Assistant Dean for Admissions or the Admissions Officer to discuss reapplying prior to the deadline for submission of a new application (normally September 15).
15. An unsuccessful applicant has the right to appeal against the decision of the Admissions Committee not to offer him/her a place, if it is felt by the applicant that the decision was reached on grounds other than those specified in Clauses 1-4 above. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Dean of Medicine. The letter should state clearly and fully the grounds for the appeal. If the Dean of Medicine, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated.

9.2 Licensure in Newfoundland and Labrador and Other Approvals

All medical students must be eligible for and obtain an educational license from the College of Physicians and Surgeons of Newfoundland and Labrador (CPSNL).

The Faculty of Medicine does not require criminal record checks or other screening procedures as a condition of admission to its program.

Students, however, should be aware that such record checks or other screening procedures may be required by agencies used by the University for professional registration, clinical experiences or academic course assignments necessary for graduation. Such agencies may refuse to accept students on the basis of information contained in the record check or other screening procedure thus preventing the student from completing a practice experience or other requirement. As a result, such students may not be eligible for promotion or graduation. The student is responsible for having such procedures completed as required at his or her own expense. The screening procedures of any given agency may change from time to time and are beyond the control of the University.

9.3 Evaluation

1. Subject to the approval of Senate, the overall policy of evaluation and the planning of the programs of studies leading to the M.D. degree are the responsibility of the Undergraduate Medical Studies Committee, which is a standing committee of the Council of the Faculty of Medicine.
2. Each student is expected to complete the work of the class as described in the current regulations of the Faculty of Medicine for each year of the program and to pass the prescribed academic and professional evaluations. In this context, the professional evaluation will cover, not only the skills expected of a student, but personal conduct and relationships with peers, patients, hospital personnel, faculty members and staff.
3. Course grades are recorded as pass or fail on a student's University transcript. For Pre-Clerkship courses/subjects and Medicine 7280, evaluation of an individual student's performance is conducted by the course/subject chair or instructor(s). The overall results of the course/subject evaluations are expressed on a four-point internal scale as outstanding, pass, borderline or fail. For Clerkship, overall evaluations of discipline rotations/selectives and electives are the responsibility of the respective discipline or electives co-ordinator. There is an internal five-point scale of outstanding, above average, average, below average and fail.
 - a. The Co-ordinator of the Pre-Clerkship or Clerkship and the Chair of the appropriate course/subject committee are responsible for ensuring that each student is informed of the results of each evaluation. The Chair of the course/subject committee will notify the student and Pre-Clerkship or Clerkship Co-ordinator, in writing, of any concerns that have arisen about performance.
 - b. It is the responsibility of the student to consult immediately with the Co-ordinator of the Pre-Clerkship or Clerkship Committee and/or the Chair of the course/subject committee regarding any course/subject in which concerns about performance have been expressed. Within one week of receiving notification of the grade for a course/subject, a student may submit a written request to the Co-ordinator of the Pre-Clerkship or Clerkship Committee for reconsideration of the grade awarded or for a reread of an exam/paper.
 - c. The student is responsible for notifying the Co-ordinator of the Pre-Clerkship or Clerkship Committee immediately of any new circumstances or of any pre-existing circumstances that have not previously been reported which could affect his or her individual performance in the work of the class.
4. A student's progress is monitored in each year of the program by the Pre-Clerkship or Clerkship Committee.

9.4 Promotion

1. The Student Promotions Committee is a standing committee of Faculty Council. The Student Promotions Committee reviews the grades of all students in each year of the Pre-Clerkship and in the Clerkship. On the basis of this review, this Committee decides which students should be promoted to the next year or Clerkship and which students are eligible to graduate. In reaching its decisions the Student Promotions Committee takes into account professional, as well as academic factors, and any special circumstances, duly authenticated, which warrant consideration.
2. The Student Promotions Committee may require students to pass reassessments or to do remediation with reassessment before being considered for promotion or graduation. Students with a Fail grade in any subject or course cannot be promoted; such students may be required to repeat the entire course or any appropriate section and must pass an appropriate reassessment before a positive promotion decision is made. The amount and quality of makeup required of a student is at the discretion of the Student Promotions Committee, but it cannot be undertaken while any other course, including an elective, or a selective, is in progress, nor if a student's full participation in subsequent courses is in any way jeopardized. Any student who passes remediation and reassessment will have their transcript show only a 'PAS' grade along with a transcript note reading: "grade awarded in *course name and number* as a result of successful remediation after a failing grade in *subject(s), n of n components of course number*".
3. A student who consistently receives borderline or below average grades even in the absence of any Fail grades may either be required to repeat the year or Clerkship or required to withdraw conditionally or unconditionally.
4. A student who is deemed by the Student Promotions Committee to be unsuitable for promotion or graduation is either required to repeat all of the studies in any year or Clerkship, or required to withdraw either conditionally or unconditionally.
 - a. If a student is required to repeat a year or Clerkship with academic prejudice, his or her performance in the repeated year or Clerkship must be at a level at which no remediation or reassessment is required. If this standard is not met, the Student Promotions Committee requires the student to withdraw unconditionally.
 - b. The option to repeat a year or Clerkship with academic prejudice can only be offered to a student once during his/her M.D. program. A student may repeat a year or Clerkship without academic prejudice if it has been demonstrated that the student's performance has been adversely affected by other factors acceptable to the Student Promotions Committee and duly authenticated.
 - c. If the Student Promotions Committee requires a student to withdraw conditionally, the Chair of the Student Promotions Committee reports to the Dean and the Pre-Clerkship or Clerkship Co-ordinator the nature of the conditions to be met and the time period specified for meeting the conditions. The Dean then recommends to the Registrar that the student be required to withdraw from the program. Any student who has been required to withdraw conditionally may be readmitted once the conditions have been met. If the conditions are not met within the specified time limit, the student is required to withdraw unconditionally.
 - d. If the Student Promotions Committee requires a student to withdraw unconditionally, the Chair of the Student Promotions Committee will report the decision and the basis upon which it was reached to the Dean and the Pre-Clerkship or Clerkship Co-ordinator. The Dean then recommends to the Registrar that the student be required to withdraw from the program. Any student who is required to withdraw unconditionally and who wishes to re-enter the Faculty must apply by the appropriate deadline date to the Admissions Committee in competition with all other applicants.
5. A student has the right to make a formal appeal against a decision of the Student Promotions Committee. However, this appeal cannot be made on the basis of the grades awarded in individual courses or subjects, as the student will normally have had the opportunity of contesting grades immediately after notification. A formal appeal by a student against the decision of this Committee must be made on grounds other than the grades awarded, e.g. default of procedure. This appeal should be made in writing, clearly stating the basis for the appeal and should be directed in the first instance to the Dean. The Dean in consultation with the Office of the Registrar determines whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.
6. In addition to the above clauses, the Faculty of Medicine reserves the right to require a student to withdraw from the program at any time when acceptable cause is demonstrated. In such cases, the Dean, on behalf of the Faculty, recommends such withdrawal to the Registrar who will then take appropriate action. Any such action is subject to the right of appeal by the student. An appeal should be made in writing clearly stating the basis for the appeal and should be directed in the first instance to the Registrar of the University. The Registrar, in consultation with the Dean, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.
7. Any student who enters the first year of the medical program but withdraws within the first seven weeks may be permitted re-entry only by re-application to the Admissions Committee in competition with all other applicants by the appropriate deadline date. Withdrawal at all other times is in accordance with **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.
8.
 - a. Upon completion of a program year in the Pre-Clerkship or after the completion of core rotations in the Clerkship, a student in good academic standing may elect to withdraw temporarily from studies (e.g. to pursue graduate studies after completion of the second year).
 - b. Any student may be permitted to withdraw in accordance with **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) Withdrawing From The University**. In all cases, the intent to withdraw voluntarily should be discussed with the Pre-Clerkship or Clerkship Co-ordinator, as appropriate. The student must make a written request for voluntary withdrawal to the Dean who will then consult the appropriate Co-ordinator. In the event that a student wishes to return to medical school, the Dean should ensure that sufficient revision and preparatory work are undertaken before the student is permitted to resume medical studies.
 - c. Students permitted to withdraw are advised of the date upon which they are required to resume medical studies. In the absence of good cause, any such student who does not resume studies on the specified date will be deemed to have left the program.

9.5 Curricular Requirements (M.D.)

Students entering the M.D. program will be governed by curricular requirements in effect at the time of their admission. In the event of readmission, students will be governed by curricular requirements in effect at the time of their readmission.

The Clerkship Student Promotions Committee recommends to Faculty Council those students to be awarded the M.D. degree.

10 Course Descriptions

The courses in Pre-Clerkship form a continuum. Some courses are composed of several individual subjects.

Clerkship provides clinical experience in the affiliated teaching hospitals and community sites of Memorial University of

Newfoundland. The students become members of the patient care team and have graded and supervised responsibility.

10.1 Courses in the First and Second Year of Medical Studies

5600 Basic Science of Medicine I is an integrated course with several

subjects including anatomy, biochemistry, genetics, immunology, microbiology, pathology and physiology. This course introduces students to the structure and function of the human body and provides the foundation of the basic science of medicine. A wide range of teaching methods are used including lectures, small group sessions, and laboratory sessions/demonstrations.

CH: 14

5610 Clinical Skills I introduces students to the main elements of the medical interview and techniques of counselling. Students are then expected to acquire skill in examining normal individuals and eliciting symptoms and signs in patients and presenting the findings in a logical and comprehensive manner. Emphasis is placed on developing a sympathetic and understanding approach to the patient. The course also provides an integrated approach to clinical symptoms and signs as manifestations of disordered function or structure. Ethical and legal issues playing a significant role in assessment and management of clinical problems are also considered within the humanities, ethics, and law in medicine (HELM) component.

AR: attendance is required

CH: 9

5640 Community Health I introduces several aspects of community health including health promotion, disease prevention, biostatistics, epidemiology, social and organizational factors in health, environmental and occupational health, community nutrition and behavioural sciences. Lectures and small group sessions are complemented with practical experience obtained through group research projects and field teaching in the community in both a rural and urban context. Aspects of medical ethics relative to community health are integrated throughout the course. Emphasis is placed on understanding the determinants of health and illness and the context in which they occur. The principles of research are introduced and students may initiate research opportunities that are carried through subsequent courses in the curriculum.

CH: 9

5650 Integrated Study of Disease I involves studying diseases of the major organs/body systems and includes integration with the pathophysiological basis of disease, pathology and pharmacology. The course also incorporates the relevant aspects of preventive medicine, clinical genetics, clinical epidemiology and occupational medicine.

CH: 10

5660 Family Medicine Pre-Clerkship Elective is offered to medical students interested in enhancing their patient interviewing and clinical examination skills. Each student will be paired with an experienced family physician in the community (rural and urban opportunities) for two to four weeks during the summer months at the end of the first and/or second year. Students gain practical experience of working at the primary care level in a variety of settings that could include office-based practice, home visits, emergency departments, labour and delivery and both long-term care facilities and in-hospital ward experiences. (This varies depending on the family physician's practice profiles.) Students applying for this course must be currently registered as a first or second year medical student in a Canadian medical school.

AR: attendance is required

CH: 0

6600 Basic Science of Medicine II is a continuation of Basic Science of Medicine I.

CH: 8

6610 Clinical Skills II is a continuation of Clinical Skills I.

AR: attendance is required

CH: 9

6640 Community Health II is a continuation of Community Health I.

CH: 9

6650 Integrated Study of Disease II is a continuation of Integrated Study of Disease I.

CH: 30

6660 Family Medicine Pre-Clerkship Elective has the same course description as Medicine 5660.

AR: attendance is required

CH: 0

7000 Clerkship Preparation Course

AR: attendance is required

CH: 2

10.2 Courses in the Clerkship

The Clerkship normally begins in late August and continues for approximately 21 months terminating with Convocation in late May almost two years later. The Clerkship begins with students taking the core courses 7200-7250. Following their successful completion, students are required to take 12 credit hours in elective courses, 12 credit hours in selectives and Medicine 7280.

7200 Internal Medicine

AR: attendance is required

CH: 15

7210 Surgery

AR: attendance is required

CH: 10

7220 Psychiatry

AR: attendance is required

CH: 10

7230 Pediatrics

AR: attendance is required

CH: 10

7240 Rural Family Practice

AR: attendance is required

CH: 5

7250 Obstetrics/Gynecology

AR: attendance is required

CH: 10

7260, 7261 & 7263 Electives

AR: attendance is required

CH: 12 (4 each)

7270-7273 Selectives

AR: attendance is required

CH: 4-12

CR: students may not receive credit for MED 7273 and all of MED 7270, 7271 and 7272

7280 Integrated Basic, Community Health and Clinical Sciences

CH: 2

10.3 Courses Offered By the Faculty of Medicine for Non-Medical Students

310A and 310B Human Physiology covers the properties of nerve and muscle cells, the special senses, blood and body fluids, and the nervous, cardiovascular, digestive, immune, respiratory, urinary, endocrine and reproductive systems. Integration of the body's systems in maintaining homeostasis is emphasized. Priority for entry into this course is given to Biochemistry, Nutrition, Dietetics, and other students who are interested in experimental science.

CO: Biochemistry 2101

CR: Biochemistry 311A/B and Medicine 310A/B

LH: to be specified

PR: Biochemistry 2101

4300 Introduction to General and Autonomic Pharmacology deals with the general principles of pharmacology (dose-response relationship, drug-receptor interaction, absorption, distribution, metabolism, excretion of drugs), and drugs that affect neuromuscular and autonomic neurotransmission, the cardiovascular, gastrointestinal, and central nervous systems, and autacoids/prostanoids.

CO: Biochemistry 3106 or Pharmacy 3111

CR: Biochemistry 4220

LH: to be specified

PR: Medicine 310A/B or Biochemistry 311A/B, or Pharmacy 2002/2003 or the former Pharmacy 3201/3202.

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

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SCHOOL OF MUSIC

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www.mun.ca/music/

Dean

Waterman, E., B.Mus.(Hons.) *Manitoba*, M.A., Ph.D. *University of California, San Diego*; Professor

Associate Dean

Volk, M., B.Mus. *Regina*, M.Mus. *Juilliard*, D.M. *Indiana*; Winner of the President's Award for Distinguished Teaching, 2007-2008; Professor

Senior Administrative Officer

Matthews, K., B.A.(Hons.), M.B.A. *Memorial*, C.M.A.

Professors

Dahn, N., B.Mus. *New England*, M.Mus., D.M.A. *Cleveland*; Winner of the President's Award for Outstanding Research, 2003-2004

Diamond, B., B.Mus.(Honours), M.A., Ph.D. *Toronto*; Canada Research Chair in Traditional Music and Ethnomusicology; Joint appointment with Department of Folklore

Dunsmore, D.A., B.Mus.Ed. *Saskatchewan*, M.Mus. *Regina*, Ph.D. *Wisconsin*

Gordon, T., B.A., B.Mus., M.A. *Central Missouri State*, Ph.D. *Toronto*

Rice, P.F., B.Mus. *McMaster*, M.A., Ph.D. *Victoria*, A.R.C.T.

Ross, C., B.A., Mus.M., Mus.Doc. *Toronto*, A.R.C.T.; Winner of the President's Award for Outstanding Research, 1999-2000

Steeves, T., B.Mus. *Western Ontario*, Diplom-Musiker *Hannover, Germany*, Pruefung der Kuenstlerischen Reife, Solistenexamen *Freiburg, Germany*; Winner of the President's Award for Outstanding Research, 2003-2004

Szutor, K., B.Mus. *British Columbia*, M.Mus. *Juilliard*, D.M.A. *British Columbia*; Winner of the President's Award for

Outstanding Research, 2001-2002

Associate Professors

Adams, C.K., B.M.E. *Evangel College*, M.Mus. *Northwestern*, Dip.

Fine Arts *Calgary*; Cross appointment with Faculty of Education

Bendzsa, P., B.Mus. *Michigan*, M.Mus. *Ohio*

Cheramy, M., B.Mus. *British Columbia*, M.M. *Indiana*, D.M.A. *Rice*

Gosine, J., M.A. *St. Andrews*, M.Phil., Ph.D. *Cambridge*, A.R.C.M.

Leibel, J., B.Mus. *Regina*, M.Mus. *North Texas*, D.M.A. *Michigan*

Regehr, V., Performance Dipl. *RCM Toronto*, M.M., D.M.A. *SUNY*

Schiller, C., B.Mus. *Mount Allison*, M.M. *New England*

Conservatory, D.M.A. *Florida State*

Szego, K., B.Mus. *Queen's*, M.A. *Hawaii*, Ph.D. *Washington*;

Winner of the President's Award for Distinguished Teaching,

2010-2011

Assistant Professors

Bulmer, K., B.Mus.A. *Western Ontario*, M.Mus., M.M.A., D.M.A.

Yale

Cook, N. B.A. *Grinnell*, M.A. *Colgate*, M.Mus., D.M.A. *Rice*

Hodgson, A., B.Mus.(Hons.) *Western Ontario*, M.Mus., M.M.A.,

D.M.A. *Yale*

Power, R., B.Mus. *Memorial*, M.Mus. *McGill*

Proulx, S., B.A. *Toronto*, M.A. *Ottawa*

Staniland, A., B.Mus. *Lethbridge*, M.Mus., D.M.A. *Toronto*

Tonelli, C., B.A.(Hons.) *Trent*, M.A., Ph.D. *University of California, San Diego*

Adjunct Professors

David, M., B.Mus.(Honours) *McGill*, D.M.A. *Montréal*

Guigné, A., B.A., M.A., Ph.D. *Memorial*

Harris Walsh, K., Ph.D. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 School Description

The school of Music at Memorial University of Newfoundland is the largest and most comprehensive university school of music in Atlantic Canada. Four-year undergraduate programs are offered in performance, musicologies and composition. Students interested in music education have two options: the conjoint degrees of Bachelor of Music/Bachelor of Music Education (B.Mus./B.Mus.Ed.), offered in collaboration with Memorial University of Newfoundland's Faculty of Education, which can be completed in five years; and the four-year Comprehensive Major, which prepares them to apply for admission to the Bachelor of Music Education as a second degree. For students not ready to specialize, a Bachelor of Music (B.Mus.) in General Musical Studies with or without a Minor provides a flexible degree option. The School of Music's faculty comprise a diverse group of performers and scholars from across North America and Europe who are as dedicated to the highest standard of teaching as they are to their own professional careers. Access to professional applied studies instruction is a right of every student in each year of the program. With close to 200 degree-stream students, the School offers ensemble performance experience in choir, band, orchestra, opera, jazz, world music, contemporary and chamber music. While the focus of the School's programs is on the classical music tradition, Newfoundland and Labrador's rich musical legacy is also honored in its curriculum with a range of courses taught by tradition-bearers from the professional music community. The School's undergraduate community is enriched by the presence of students pursuing **Master of Music (M.Mus.)** degrees in performance, performance/pedagogy and conducting, as well as **Master of Arts (M.A.)** and **Doctor of Philosophy (Ph.D.)** students in the area of ethnomusicology.

Additional information regarding the School of Music is available at www.mun.ca/music/.

2.1 Health Statement

Music study and music making are activities that demand great mental and physical energy and coordination. For this reason, students are strongly encouraged to maintain a healthy lifestyle, getting adequate rest, proper nutrition, and exercise, and avoiding practices that could be detrimental to good health and well-being.

3 Description of Programs

All courses in the School of Music are designated by the abbreviation MUS.

3.1 Bachelor of Music

The Bachelor of Music Degree program has been revised effective Fall 2012. For further information see the **Important Notice** under the **Bachelor of Music Degree Regulations**.

The School offers a four-year Bachelor of Music with Majors in:

3.1.1 Composition

This Major is recommended for students who plan to compose or to teach composition.

3.1.2 Comprehensive

This major is recommended for students planning to apply for admission to the Bachelor of Music Education as a Second Degree.

3.1.3 General Musical Studies

This Major is recommended for students seeking a broad knowledge of music that will prepare them for a variety of career and advanced study options. Students have the option of including a Minor in a discipline other than Music.

3.1.4 Musicologies

This Major is recommended for students interested in research in music and/or media professions. A variety of approaches to music scholarship are addressed, including music history, ethnomusicology, and popular music studies.

3.1.5 Performance

This Major is recommended for students planning to pursue a career as a solo performer, orchestral or band player, university-based musician or private teacher.

3.1.6 Joint Major in Performance and Musicologies

This Major is recommended for students who have both advanced performance skills and an interest in music research. Students who are planning careers in specialized performance, music editing or as university-based musicians are encouraged to consider this Major.

3.1.7 Major in Performance with a Minor in Composition

This Major is recommended for students who have both advanced performance skills and an interest in music theory and composition. Students who are planning careers in performance, music editing, conducting, arranging, composing or as university-based musicians are encouraged to consider this program.

3.2 Five Year Bachelor of Music Conjoint with Bachelor of Music Education

This degree program is offered jointly with the Faculty of Education, and is recommended for candidates planning to pursue a career in Music Education.

3.3 Interdisciplinary Major in Drama and Music (Bachelor of Arts)

This Major program in Drama and Music is currently under review and will not be available for admission for the 2012-2013 year. For further information please contact the Department of English Language and Literature.

3.4 Interdisciplinary Minor in Music and Culture

This Minor is available to students in the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Commerce (Cooperative), Bachelor of Recreation, Bachelor of Recreation (Honours), Bachelor of Recreation (Cooperative), and Bachelor of Recreation (Cooperative) (Honours).

3.5 Minor in Music History

This Minor is available to students in the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Commerce (Cooperative), Bachelor of Recreation, Bachelor of Recreation (Honours), Bachelor of Recreation (Cooperative), and Bachelor of Recreation (Cooperative) (Honours).

3.6 Honours Degree

An honours degree signifies superior academic achievement. The Bachelor of Music (Honours) is available to candidates in the Performance, Composition, Musicologies, General Musical Studies, and Comprehensive Majors, candidates in the Joint Major in Performance and Musicologies, and candidates in the Major in Performance with a Minor in Composition. To graduate with honours, application must be made on the prescribed form which is available from the School or the Office of the Registrar. For further information on honours degrees see **Bachelor of Music (Honours)**.

4 Admission/Readmission Regulations for the School of Music

In addition to meeting the *UNIVERSITY REGULATIONS*, students must meet the **Admission/Readmission Regulations for the School of Music**.

4.1 General Information

1. Entry to the School of Music is competitive and by audition only.
2. Admission or readmission to the University does not necessarily constitute admission or readmission to any program.

4.2 Application Forms and Deadlines

1. Admission to the Bachelor of Music degree is normally possible in the Fall semester only. The application deadline for admission to the Fall semester is January 15.
2. Transfer students may be considered for admission in the Winter semester if they have the prerequisites to enter a sufficient number of music courses in that semester. The application deadline for admission to the Winter semester is September 30.
3. Students who have withdrawn from the music degree program may apply to be readmitted in either the Fall or Winter semester.
4. School of Music application forms are available from the School's General Office and the Office of the Registrar, through the School's website at www.mun.ca/music/programs/undergrad/apply.php and through the Office of the Registrar's website at www.mun.ca/regoff/forms.php. Applicants who have not previously attended Memorial University of Newfoundland or those who have not attended Memorial University of Newfoundland in the two preceding semesters must also submit the "Undergraduate Application for Admission/Readmission" which is available at www.mun.ca/regoff/forms.php. Application forms may also be obtained by writing the School of Music, Memorial University of Newfoundland, St. John's, NL A1C 5S7 or the Office of the Registrar, Admissions Office, Memorial University of Newfoundland, St. John's, NL A1C 5S7.
5. All applications for admission or readmission must be submitted to the Office of the Registrar. A complete application includes an application to the University (for those who have not attended Memorial University of Newfoundland in the two preceding

semesters), an application to the School, and a music teacher reference form. The School of Music application form and teacher reference form are available from the School of Music website at www.mun.ca/music. Application fees must be paid when the application forms are submitted.

4.3 Admission/Readmission Requirements to the Bachelor of Music Degree Program

1. All applicants are required to audition to the satisfaction of the School on the instrument that they have chosen as their Principal Applied Study in their degree program.
 - a. The School offers instruction in voice, piano, organ, flute, clarinet, saxophone, oboe, bassoon, trumpet, horn, euphonium, trombone, tuba, percussion, guitar, violin, viola, cello and double bass. Audition requirements for each instrument may be obtained from the School of Music General Office or online at www.mun.ca/music.
 - b. Auditions are normally held in early March. Dates and locations of upcoming auditions are available from the School of Music General Office or online at www.mun.ca/music/programs/.
 - c. Late auditions may be held if space is available. Students auditioning late are normally not eligible for School of Music entrance scholarships.
 - d. Transfer students and students seeking readmission to the music degree program must audition to determine their placement in applied study courses. The level of audition should be equivalent to the jury requirements for the prerequisite of the course to which they are seeking admission. Jury requirements are available from the Office of the School of Music or through the School of Music website at www.mun.ca/music.
2. All applicants are also required to take the following admission and placement tests:
 - a. Placement Test in Theory and Musicianship: This test in basic rudiments, aural perception, and simple four-part harmony will be administered during the entrance audition period.
 - b. Sightsinging Test: This short test is administered individually.
 - c. Piano Proficiency Test: Piano proficiency is a graduation requirement. Students are expected to meet this requirement within the first year of their program. Applicants whose level of attainment is not acceptable to the School will be required to repeat and pass the Piano Proficiency Test prior to registering for Music 2401. Students are advised to contact the School of Music regarding scheduling of the test and for information about private remedial piano instruction.
 - d. Writing Test: This test is administered during the entrance audition period. It is intended to assess students' writing skills and their capacity to articulate ideas about music.
3. The School will notify applicants in writing when a decision has been made regarding admission.

4.3.1 Major

1. With the exception of the Comprehensive Major, Candidates normally declare their intended Major area of study in their fourth semester in the Bachelor of Music program.
2. A candidate may not change his/her Major without the written permission of the Dean. In cases where permission is granted, the candidate shall be required to fulfill all requirements for the new Major. However, in the case where a student's Major changes from Performance to one of the other Majors, the Principal Applied Study courses successfully completed under the Performance Major may be used to satisfy the requirements for Principal Applied Study in the new Major, with any additional credit hours being used as Music electives in the new Major.
3. Candidates shall choose one of the following areas for their Major.

4.3.1.1 Composition

Students interested in the Composition Major are strongly encouraged to take Music 3100 in their second year. Candidates for this Major must apply in writing to the Dean by February 15th in the semester during which they are registered for Music 2108, submitting up to three of their own compositions by the end of classes in that semester. Candidates will be interviewed by a panel of composition faculty. Admission to this Major will be based on the candidate's: i) submitted compositions, ii) interview, iii) achievement in Music 1107, 1108, 1700, 2107, 2108, 3100 and any other elective courses in music theory and composition, iv) general academic achievement, and v) potential for a career and/or graduate work in composition.

4.3.1.2 Comprehensive

Candidates planning to apply for admission to the Conjoint degrees (Bachelor of Music/Bachelor of Music Education) should first declare the Comprehensive Major by the end of their second semester in the Bachelor of Music program in order to take the necessary prerequisite courses for admission to the Conjoint degrees program. Students planning to apply for admission to the Bachelor of Music Education as a second degree may wait until their fourth semester to declare this Major. Please note that completion of this degree does not guarantee admission to the Faculty of Education.

4.3.1.3 General Musical Studies

Candidates for the General Musical Studies Major need not submit an application. All candidates who have not been admitted to another Major by the end of their fourth semester in the Bachelor of Music program will automatically be admitted to the General Musical Studies Major. Students have the option of including a Minor in a discipline other than Music, in which case they must meet all prerequisites and requirements for the Minor. The subject of the candidate's Minor shall be that declared by the candidate on the Change of Academic Program Form, which is available at www.mun.ca/regoff/registration/Declare_Change_Academic_Program.pdf or in person at the Office of the Registrar.

4.3.1.4 Musicologies

Candidates for this Major must apply in writing to the Dean by February 15th in the semester during which they are registered for Music 2006, submitting up to three pieces of relevant work by the end of classes in that semester, including essays or analyses written either in the context of academic course work or independently. Candidates will be interviewed by a panel of faculty in this discipline. Admission to this Major will be based on the candidate's: i) submitted work, ii) interview, iii) achievement in Music 1005, 1006, 2005, 2006 and any electives in musicologies, as well as English and research/writing courses, iv) general academic achievement, and v) potential for a career and/or graduate work in musicology, ethnomusicology, journalism or a related field.

4.3.1.5 Performance

Candidates for this Major must apply in writing to the Dean by February 15th in the semester during which they are registered for Music 240B. Candidates are required to audition for this program. Where possible, the jury examination Music 240B will be considered as the audition for admission to the Performance Major, although in some cases the audition may require repertoire beyond the level and amount prepared for the jury examination. Admission to this Major will be based on a candidate's: i) performance on the audition and achievement in Music 140A/B and 240A/B, ii) general academic achievement, and iii) potential for a career and/or graduate work in performance.

4.3.1.6 Joint Major in Music Performance and Musicologies

Candidates for the Joint Major must apply in writing to the Dean by February 15th in the semester during which they are registered for Music 240B. Candidates for admission to the Joint Major must fulfill the requirements for admission to both the Performance and Musicologies Majors.

4.3.1.7 Major in Music Performance with a Minor in Composition

Candidates for this Major must apply in writing to the Dean by February 15th in the semester during which they are registered for Music 240B. Candidates must fulfill the requirements for admission to both the Performance and Composition Majors.

4.3.1.8 Bachelor of Music Conjoint with Bachelor of Music Education

This program is offered with the Faculty of Education, and is recommended for candidates planning to pursue a career in Music Education. Candidates for the Conjoint Degrees program must meet the Faculty of Education's admission requirements for the Bachelor of Music Education Conjoint Degree program. Applications must be submitted to the Faculty of Education by January 15 for admission to the following Fall semester.

4.4 Admission Requirements to Minor Programs

1. The Interdisciplinary Minor in Music and Culture and Minor in Music History are available to students in the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Commerce (Cooperative), Bachelor of Recreation, Bachelor of Recreation (Honours), Bachelor of Recreation (Cooperative), and Bachelor of Recreation (Cooperative) (Honours). Students wishing to complete either of these minors must declare so on the Change of Academic Program Form, which is available at www.mun.ca/regoff/registration/Declare_Change_Academic_Program.pdf or in person at the Office of the Registrar.
2. Students wishing to be considered for admission to the Minor in Music History must also meet the prerequisites for Music 1107 and 1117.

5 Bachelor of Music Degree Regulations

Important Notice

Students admitted into the Bachelor of Music Degree program to begin study as of September 2012 shall be governed by the following Regulations. Students admitted or readmitted into the Bachelor of Music prior to September 2012 will normally complete the requirements of the degree as in effect at the time of their admission/readmission. For further information see **Transition to New Bachelor of Music Degree Program, Table 1 Substitutions for Music Courses Required under Previous Regulations, and Table 2 Substitution of Former Courses For Courses in This Calendar.**

1. Students admitted to the Bachelor of Music program may register for a maximum of 17 credit hours per semester without written permission from the Dean.
2. A student may not repeat for credit a Principal Applied Study course that s/he has already successfully completed, unless the student has the written permission of the Dean.
3. Active participation in School of Music ensembles is an integral part of a music student's education. One must be present at rehearsals and performances to have participated in the learning experience. Furthermore, the success of the ensemble as a whole is dependent upon the regular attendance and participation of all of its members. Accordingly, attendance will be required in the following courses: Music 2611-2620, Music 263A/B, Music 265A/B, Music 3500, and Music 3511-3518.
4. The following Music courses may not be counted toward the Bachelor of Music degree: Music 1116, 1120, 2011, 2012, 2013 and 2014.

5.1 Transition to New Bachelor of Music Degree Program

1. Students admitted or readmitted to the School of Music for Fall 2012 will follow the **Bachelor of Music Degree Regulations** in this Calendar.
2. Students admitted or readmitted to the School of Music before Fall 2012:
 - a. Will normally follow the Calendar in effect at the time they were admitted or readmitted. However, not all courses from the previous Calendars will be offered after the 2011-12 academic year. **Table 1 Substitutions for Music Courses Required Under Previous Regulations** lists the courses that students following the regulations of an earlier Calendar may substitute for required courses that are no longer offered.
 - b. May substitute up to 6 credit hours of electives from disciplines other than Music and Music Education for courses in a language or languages other than English under the Music History and Literature Major.
3. Notwithstanding clause 2. above, students admitted or readmitted to the School of Music before Fall 2012 may elect to follow the regulations in this Calendar. **Table 2 Substitution of Former Courses For Courses in This Calendar** lists the former courses that may be substituted for courses required under this Calendar which were not offered before Fall 2012.

Table 1 Substitutions for Music Courses Required Under Previous Regulations

Under Previous Calendar	Substitution
Music History 1002 1003 2002 (will not be offered after the 2012-2013 academic year) 2003 (will not be offered after the 2012-2013 academic year)	Musicologies 1005 2005 2006 3009
Keyboard Harmony 1127 1128 1137 1138	Functional Keyboard 2401 2402 2411 2412
For Students in the Conjoint Major 2127 2128 2137 2138	For Students in the Conjoint Major 3401 3402 3411 3412
For Students in Majors Other Than Conjoint 2127 plus 2128 2137 plus 2138	For Students in Majors Other Than Conjoint 3401 plus 3402 or 1 credit hour Music elective 3411 plus 3412 or 1 credit hour Music elective
Aural Skills 3117	Aural Skills One credit hour Music elective
Instrumental Conducting 3311, 3312, 3313 and 3314 3315 and 3316 (3316 will not be offered after the 2012-2013 academic year)	Instrumental Conducting 3321 3316 or 3322 (3316 will not be offered after the 2012-2013 academic year)

Table 2 Substitution of Former Courses For Courses in This Calendar

Under Current Calendar	Substitution
Musicologies 1005 2005 2006 3009	Music History 1002 1003 2002 2003
For Students in the Musicologies Major 1006	For Students in the Musicologies Major 4094
For Students in all other Majors 1006	For Students in all other Majors 3 credit hours from 3014-3019, 4094
Music Theory and Composition 3105	Music Theory and Composition 3107 (will not be offered after the 2012-2013 academic year)
Music Technology - For students who have completed Music 1108 before Fall 2012 1700	Music Technology - For students who have completed Music 1108 before Fall 2012 1 credit hour Music elective beyond 1000 level
Functional Keyboard 2401 2402 2411 2412 3401 3402 3411 3412	Keyboard Harmony 1127 1128 1137 1138 2127 2128 2137 2138
Instrumental Conducting 3321 3322	Instrumental Conducting 3311, 3312, 3313 and 3314 3316 plus 2 credit hours Music electives
Career skills for Musicians for students who have completed 3703 Music 3704	Career skills for Musicians for students who have completed 3703 Music 3703 plus 2 credit hours Music elective beyond 1000 level
Vocal Pedagogy 3764	Vocal Pedagogy 3762 and 3763

5.2 Core Program Requirements

All Bachelor of Music students, regardless of Major, must complete the following courses (55 credit hours) as outlined below:

1. **Applied Music (8 credit hours):** 140A/B, 240A/B
2. **Musicologies (15 credit hours):** 1005, 1006, 2005, 2006, 3009

3. **Music Theory (19 credit hours):**

- a. **Written Theory:** 1107, 1108, 2107, 2108, 3105
- b. **Aural Skills:** 1117, 1118, 2117, 2118

4. **Music Technology** (1 credit hour): Music 17005. **Functional Keyboard** (1 credit hour): 2401 or 2411, 2402 or 24126. **Ensemble I:** 1 credit hour from Music 3517 or 35187. **Ensemble II:** 10 credit hours according to **Principal Applied Study** below:

- a. **Voice:** Music 2700 and 2701, and 2 credit hours from Music 2611-2612, plus 6 additional credit hours from Music 2611, 2612, 2616, 2617. Students will be placed in one of these ensemble courses during each semester in which they are enrolled in Principal Applied Study. The assignment will be based on their ensemble audition, the appropriateness of the ensemble for the student's musical development and program of study, and the need to create balanced ensembles.
- b. **Piano, Organ, or Guitar:** 2 credit hours of music electives chosen from courses beyond the 1000 level, and 2 credit hours from Music 2611-2612, plus 6 additional credit hours from Music 2611-2620. Students will be placed in one of these ensemble courses during each semester in which they are enrolled in Principal Applied Study. The assignment will be based on their ensemble audition, the appropriateness of the ensemble for the student's musical development and program of study, and the need to create balanced ensembles.
- c. **All other Principal Applied Study, i.e. percussion or a string or wind instrument:** 2 credit hours from Music 2611-2612, plus 8 credit hours from Music 2613, 2614, 2615, 2619, 2620. Students will be placed in two of these ensemble courses during each semester in which they are enrolled in Music 140A/B and in one ensemble course during each subsequent semester of Principal Applied Study. Ensemble assignments will be based on their ensemble auditions, the appropriateness of the ensemble for the student's musical development and program of study, and the need to create balanced ensembles.

8. The remaining credit hours for the degree are determined according to the student's Major, as below.

5.3 Composition Major

To be awarded the degree of Bachelor of Music in Composition, a candidate shall comply with the School's regulations, and successfully complete a minimum of 123 credit hours, including 55 credit hours in the **Core Program**. The remaining 68 credit hours will be chosen as follows:

1. Music 340A/B, 440A/B.
2. Six credit hours of Music 3140 and 6 credit hours of Music 4140.
3. Music 3104, 3112, 4112 and one of Music 3106 and 3108.
4. Twelve additional credit hours chosen from Music courses beyond the 1000 level including:
 - a. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - b. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - c. No more than one of Music 2021, 2022 and 2023.
 - d. Students interested in this Major are strongly encouraged to take Music 3100 in their second year.
5. Twenty-four credit hours chosen from disciplines other than Music and Music Education, including at least 6 credit hours from courses in English and/or designated research/writing courses.

5.4 Comprehensive Major

To be awarded the degree of Bachelor of Music with a Comprehensive Major, a candidate shall comply with the School's regulations, and successfully complete a minimum of 123 credit hours, including 55 credit hours in the **Core Program**. The remaining 68 credit hours will be chosen as follows:

1. Music 340A/B, 440A/B
2. Music 2311, 2312, 3321, 3322
3. Eight credit hours chosen from: Music 3221, 3222, 3231, 3232, 3233, 3241, 3242, 3261, 3281, 3282.
4. Music 3401 or 3411, 3402 or 3412.
5. Fifteen additional credit hours chosen from Music courses beyond the 1000 level including:
 - a. At least 3 credit hours chosen from courses beyond the 2000 level in Musicologies and Music Theory/Composition.
 - b. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - c. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - d. No more than 3 credit hours from Music 2021, 2022 and 2023.
 - e. Three credit hours chosen from the following may be substituted for Music electives in the Comprehensive Major: Education 2500, 2515, 2520.
6. Twenty-four credit hours from disciplines other than Music and Music Education, including at least 6 credit hours from courses in English and/or designated research/writing courses. Students in the Comprehensive Major are encouraged to take at least 18 credit hours in a second teachable subject.

5.5 General Musical Studies Major

To be awarded the degree of Bachelor of Music in General Musical Studies, a candidate shall comply with the School's regulations, and successfully complete a minimum of 123 credit hours, including 55 credit hours in the **Core Program**. The remaining 68 credit hours will be chosen as follows:

1. Music 340A/B, 440A/B.
2. An additional 60 credit hours to be chosen according to either **Option A** or **Option B** below:

5.5.1 Option A (With Minor)

1. An additional 21 credit hours chosen from Music courses beyond the 1000 level, including:
 - a. At least 6 credit hours chosen from courses beyond the 2000 level in Musicologies and Music Theory/Composition.
 - b. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - c. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - d. No more than one of Music 2021, 2022 and 2023.
2. Six credit hours chosen from courses in English and/or designated research/writing courses.
3. A Minor of at least 24 credit hours in a subject other than Music. The candidate must follow the regulations for the Minor as set forth in the appropriate section of the Calendar.
4. Nine credit hours open electives which may be chosen from courses in Music, the Minor subject, and/or any other disciplines. However, no more than 3 credit hours in Music Education may be included.

5.5.2 Option B (No Minor)

1. An additional 36 credit hours chosen from music courses beyond the 1000 level including:
 - a. At least 12 credit hours chosen from courses beyond the 2000 level in Musicologies and Music Theory/Composition.
 - b. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - c. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - d. No more than one of Music 2021, 2022 and 2023.
 - e. A maximum of 3 credit hours chosen from the following courses may be substituted for Music electives: Education 2500, 2515, 2520. Music Education Majors have priority in registering for these courses and spaces may not be available for General Musical Studies Majors
2. Twenty-four credit hours from disciplines other than Music and Music Education, including at least 6 credit hours from courses in English and/or designated research/writing courses.

5.6 Musicologies Major

To be awarded the degree of Bachelor of Music in Musicologies, a candidate shall comply with the School's regulations, and successfully complete a minimum of 123 credit hours, including 55 credit hours in the **Core Program**. The remaining 68 credit hours will be chosen as follows:

1. Music 340A/B, 440A/B
2. Music 4095
3. Fifteen additional credit hours beyond the 2000 level in Musicologies.
4. Six credit hours chosen from Anthropology, Canadian Studies, European Studies, Folklore, Gender Studies, History, Law and Society, Medieval Studies, Newfoundland and Labrador Studies, Philosophy, Political Science, Psychology, Religious Studies, and/or Sociology.
5. Twelve additional credit hours chosen from music courses beyond the 1000 level including:
 - a. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - b. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - c. No more than one of Music 2021, 2022 and 2023.
6. Twenty-four credit hours chosen from disciplines other than Music and Music Education, including at least 6 credit hours from courses in English and/or designated research/writing courses and at least 6-credit hours in a language or languages other than English.

5.7 Performance Major

To be awarded the degree of Bachelor of Music in Performance, a candidate shall comply with the School's regulations, and successfully complete a minimum of 123 credit hours, including 55 credit hours in the **Core Program**. The remaining 68 credit hours will be chosen as follows:

1. Music 345A/B, 445A/B.
2. Music 3704 and 3 credit hours chosen from Music 3722, 3732, 3742, 3751, 3764, 3774, 4701, 4702, 4703.
3. Six credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518.
4. Twenty additional credit hours from Music courses beyond the 1000 level, including:
 - a. At least 6 credit hours chosen from courses beyond the 2000 level in Musicologies and Music Theory/Composition.
 - b. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those outlined under the **Core Program**.
 - c. No more than one of Music 2021, 2022 and 2023.
 - d. A maximum of 3 credit hours chosen from the following courses may be substituted for Music electives: Education 2500, 2515, 2520. Music Education Majors have priority in registering for these courses and spaces may not be available for Performance Majors.
5. Twenty-four credit hours chosen from disciplines other than Music and Music Education, including at least 6 credit hours from courses in English and/or designated research/writing courses. Students whose Principal Applied Study is Voice must include at least 3 credit hours in each of Italian, German and French.

5.8 Joint Major in Performance and Musicologies

To be awarded the degree of Bachelor of Music with a Joint Major in Performance and Musicologies, a candidate shall comply with the School's regulations, and successfully complete a minimum of 127 credit hours, including 55 credit hours in the **Core Program**. The remaining 72 credit hours will be chosen as follows:

1. Music 345A/B, 445A/B.
2. Three credit hours chosen from Music 3704, 3722, 3732, 3742, 3751, 3764, 3774, 4701, 4702, 4703.
3. Six credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518.
4. Music 4095.
5. Fifteen additional credit hours beyond the 2000 level in Musicologies.
6. An additional 3 credit hours chosen from music courses beyond the 1000 level.
7. Thirty credit hours chosen from disciplines other than Music, including:
 - a. At least 6 credit hours chosen from courses in English and/or designated research/writing courses.
 - b. 6 credit hours in Anthropology, Canadian Studies, European Studies, Folklore, Gender Studies, History, Law and Society, Medieval Studies, Newfoundland and Labrador Studies, Philosophy, Political Science, Psychology, Religious Studies, and/or Sociology.
 - c. At least 6 credit hours in a language or languages other than English. Students whose Principal Applied Study is Voice must include at least 3 credit hours in each of Italian, German, and French.

5.9 Major in Performance with a Minor in Composition

To be awarded the degree of Bachelor of Music with a Major in Performance and a Minor in Composition, a candidate shall comply with the School's regulations, and successfully complete a minimum of 124 credit hours, including 55 credit hours in the **Core Program**. The remaining 69 credit hours will be chosen as follows:

1. Music 345A/B, 445A/B.
2. Music 3704 and 3 credit hours chosen from Music 3722, 3732, 3742, 3751, 3764, 3774, 4701, 4702, 4703.
3. Six credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518.
4. Six credit hours of Music 3140.
5. Music 3104, 3112 and one of Music 3106 or 3108.
6. Six credit hours chosen from Music courses beyond the 1000 level including:
 - a. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - b. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - c. No more than 3 credit hours from Music 2021, 2022 and 2023.
 - d. Students interested in this Major are strongly encouraged to take Music 3100 in their second year.
7. Twenty-four credit hours chosen from disciplines other than Music or Music Education, including at least 6 credit hours chosen from courses in English and/or designated research/writing courses. Students whose Principal Applied Study is Voice must include at least 3 credit hours in each of Italian, German, and French.

5.10 Bachelor of Music Conjoint With Bachelor of Music Education

To be awarded the Conjoint Degrees of Bachelor of Music and Bachelor of Music Education, a candidate shall comply with the School's regulations and successfully complete a minimum of 159 credit hours, including 55 credit hours in the **Core Program**. The remaining 104 credit hours will be chosen as follows:

1. Music 340A/B, 440A/B.
2. Music 2311, 2312, 3321, 3322.
3. Eight credit hours chosen from: Music 3221, 3222, 3231, 3232, 3233, 3241, 3242, 3261, 3281, 3282.
4. Music 3401 or 3411, 3402 or 3412.
5. Six additional credit hours chosen from Music courses beyond the 1000 level including:
 - a. A maximum of 4 credit hours from Music 2611-2614, 2619, 2620, and 263A/B, in addition to those listed under the **Core Program**.
 - b. A maximum of 5 credit hours from Music 2615, 2616, 2617, 265A/B, 3500, the former 3510, 3511-3518 in addition to those listed under the **Core Program**.
 - c. No more than 3 credit hours from Music 2021, 2022 and 2023.
6. Forty-five credit hours as prescribed by the Faculty of Education under the **Regulations for the Conjoint Degrees of Bachelor of Music and Bachelor of Music Education**.
7. Twenty-four credit hours chosen from disciplines other than Music and Music Education, including at least 6 credit hours from courses in English and/or designated research/writing courses. Conjoint degrees students are strongly encouraged to take at least 18 credit hours in a second teachable subject.

5.11 Bachelor of Music (Honours)

The Bachelor of Music (Honours) will be awarded to candidates in the Performance, Composition, Musicologies, General Musical Studies, and Comprehensive Majors, candidates in the Joint Major in Performance and Musicologies, and candidates in the Major in Performance with a Minor in Composition who:

1. are graduating with First Class standing;
2. meet all the graduation requirements in the Bachelor of Music Degree Regulations for their Major; and
3. have attained a minimum average of 82% in all Music courses included in the degree.

6 Academic Standards and Continuance in the Bachelor of Music

1. Students in the Performance Major must attain a minimum grade of 75% in each of the jury exam and the course work for Music 345A/B and Music 445A/B. Students who fail to do so will be required to withdraw from the Performance Major. In such cases, the student may apply in writing to the Dean for admission into a Major other than Performance.
2. With the exception of those who have completed Music 440B or 445B, students who are not registered for a Principal Applied Study course or Education 403X at the end of the regular registration period will be deemed to have withdrawn from the Bachelor of Music degree program.
3. A student who withdraws from a Principal Applied Study course at any time in the semester shall have his/her eligibility to continue in the degree program reviewed by the Committee on Undergraduate Studies. The Committee shall determine whether or not the student shall be deemed to have withdrawn.
4. A student whose average in Music courses falls below 65% in any semester will be placed on probation.
5. A student who is on probation will be returned to clear standing if s/he achieves an average above 65% in music courses taken during the probation semester.
6. A student will be required to withdraw from the Bachelor of Music degree program if a) the student's average in music courses falls below 65% in each of two consecutive semesters of registration in the program, or b) the student's average in music courses falls below 65% in any three semesters of registration in the program, or c) the student fails any music course more than once, or d) the student has been unable to complete two consecutive semesters or three non-consecutive semesters of applied music studies (Music 140A/B, 240A/B, 340A/B, 440A/B, 345A/B, 445A/B).
7. Students who have withdrawn from the Bachelor of Music degree program and wish to re-enter the program must re-apply in competition. A student re-entering the program may be readmitted on probation if the Admissions Committee so recommends.
8. Students who have been required to withdraw from the Bachelor of Music degree program may apply for readmission after a minimum of two semesters have elapsed following the withdrawal.
9. Students who have been required to withdraw from the Bachelor of Music degree program twice are ineligible for further readmission.
10. Students who have withdrawn from the Bachelor of Music degree program may apply to be readmitted in either the Fall or Winter semester.

7 Minor Program Regulations

7.1 Transition to New Minor Programs

1. Students in a Major or Minor Program offered by the School under a degree other than the Bachelor of Music will normally follow the regulations in effect in the academic year in which they first completed a Music course at the 2000 level or above which may be applied to their program. Students following the regulations of an earlier Calendar should note that not all courses from previous Calendars will be offered after the 2011-12 academic year. **Table 1 Substitutions for Music Courses Required Under Previous Regulations** lists the courses that students following the regulations of an earlier Calendar may substitute for required courses that are no longer offered.
2. Notwithstanding clause 1. above, students in a Major or Minor program offered by the School under a degree other than the Bachelor of Music who first completed a Music course at the 2000 level or above prior to Fall 2012 may elect to follow the regulations under this Calendar. **Table 2 Substitution of Former courses For Courses in this Calendar** lists the former courses that may be substituted for courses required under the current Calendar which were not offered before Fall 2012.

7.2 Interdisciplinary Minor in Music and Culture

1. This Minor is available to students in the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Commerce (Cooperative), Bachelor of Recreation, Bachelor of Recreation (Honours), Bachelor of Recreation (Cooperative), and Bachelor of Recreation (Cooperative) (Honours). The Minor in Music and Culture is not applicable to the Bachelor of Music degree.
2. Students shall complete 25 credit hours for the Minor in Music and Culture, as follows:
 - a. Music 1120 or Music 1107
 - b. Music 1116 or Music 1117
 - c. Music 4040 or Folklore 4440
 - d. Music 2012 or 2013
 - e. One of Music 2011, 2014, Music 3017 or Folklore 3200, Music 3018 or Folklore 3618
 - f. One of Music 3014, 3015, 3016 and 3019
 - g. One of Music 2021, 2022, and 2023
 - h. Two additional courses chosen from Music 1108 or the courses listed in d., e., f., or g. above.
3. Please note that most Music courses are not offered every semester, and some are offered only in alternate years.

7.3 Minor in Music History

1. This Minor is available to students in the Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration, Bachelor of Commerce (Cooperative), Bachelor of Recreation, Bachelor of Recreation (Honours), Bachelor of Recreation (Cooperative), and Bachelor of Recreation (Cooperative) (Honours). The Minor in Music History is not applicable to the Bachelor of Music degree.
2. To be admitted to the Minor in Music History, students must meet the prerequisites for Music 1107 and 1117.
3. Students shall complete the following requirements (29 credit hours) for the Minor in Music History.
 - a. Music 1107, 1108, 1117, and 1118.
 - b. Music 1005, 1006, 2005, 2006, 3009.
 - c. An additional 6 credit hours chosen from Music 3004, 3005, 3006, 3007, 4001, 4002, 4003, 4004, 4005.
4. Course prerequisites stipulated in the course descriptions must be met. Please note that most Music courses are not offered every semester, and some are offered only in alternate years.

8 Waiver of School Regulations

Every student has the right to request waiver of School regulations. Students wishing waiver of University academic regulations should refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**.

1. The School reserves the right in special circumstances to modify alter, or waive any School regulation in its application to individual students where merit and equity warrant in the judgement of the Committee on Undergraduate Studies of the School.
2. Waiver of a School course prerequisite or co-requisite may be granted by the Dean.
3. All other requests for waiver of a School regulation must be submitted in writing to the Chair of the Committee on Undergraduate Studies of the School for consideration. Medical and/or other documentation to substantiate the request must be provided.
4. Any waiver granted does not reduce the total number of credit hours required for the degree.

9 Appeal of Regulations

Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

10 Music Courses Available to Students not Enrolled in a Program Offered by the School

1. The following Music courses are available to students who have not been admitted to a program in the School of Music, and are appropriate for students with little or no musical background:
 - Music 1116 Basic Musicianship (1 credit hour)
 - Music 1120 Rudiments 1 (3 credit hours)
 - Music 2011 North American Popular Music (3 credit hours)
 - Music 2012 Understanding Classical Music (3 credit hours)
 - Music 2013 Twentieth-Century Musicals (3 credit hours)
 - Music 2014 Introduction to World Music (3 credit hours)
2. The following ensemble courses are available to non-music students with appropriate background, subject to the approval of the instructor:
 - Music 2611 Festival Choir (1 credit hour per semester)
 - Music 2614 Concert Band (1 credit hour per semester)
3. Non-Music students may also audition to participate in the following ensemble courses:
 - Music 2612 Chamber Choir (1 credit hour per semester)
 - Music 2613 Chamber Orchestra (1 credit hour per semester)
 - Music 2615 Jazz Ensemble (1 credit hour per semester)
 - Music 2616 Opera Workshop (1 credit hour per semester)
 - Music 2617 Opera Workshop (2 credit hours per semester)
 - Music 2619 Wind Ensemble (1 credit hour per semester)
 - Music 263A/B Chamber Orchestra (1 credit hour per two semesters)
 - Music 265A/B Jazz Ensemble (1 credit hour per two semesters)

Contact the School of Music office for further information regarding the audition process..
4. Most courses in musicologies (course numbers with second digit "0") and music theory/composition (course numbers with second digit "1") are available to non-music Majors who have fulfilled the prerequisites.

11 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the School.

All courses in the School of Music are designated by the abbreviation MUS.

11.1 Applied Music Courses

140A/B Principal Applied Study I requires one hour per week of individual instruction (vocal or instrumental).

AR: attendance is required at School of Music recitals

CH: 4

CO: in each semester for students whose applied study is voice, piano, organ or guitar: one of MUS 2611, 2612 and in each semester for all other applied studies: one of MUS 2611 or 2612, and one of MUS 2613, 2614, 2615, 2619, 2620

OR: one hour per week of individual instruction

PR: admission to the Bachelor of Music Degree program

1700 Introduction to Music Technology provides a practical introduction to useful computer tools for musicians, such as music notation software, basic digital audio editing, and new media.

CH: 1

CO: MUS 140A/B

LC: 1

PR: admission to the Bachelor of Music Degree program

2401 Functional Keyboard I is an introduction to practical keyboard skills for students whose Principal Applied Study is not piano or organ. Functional accompaniment, transposition and score reading are emphasized.

CH: 0

CR: the former MUS 1127

LC: 1

PR: MUS 1108, successful completion of the Piano Proficiency Test, and admission to the Bachelor of Music Degree program

UL: may not be taken for credit by students whose Principal Applied Study is a keyboard instrument.

2402 Functional Keyboard II is a continuation of MUS 2401.

CH: 1

CR: the former MUS 1128

LC: 1

PR: MUS 2401 and admission to the Bachelor of Music Degree program

UL: may not be taken for credit by students whose Principal Applied Study is a keyboard instrument.

240A/B Principal Applied Study II is a continuation of MUS 140A/B.

AR: attendance is required at School of Music recitals

CH: 4

CO: one of MUS 2611-2620 in accordance with Ensemble II under the

Core Program

OR: one hour per week of individual instruction

PR: MUS 140A/B and admission to the Bachelor of Music Degree program

2411 Advanced Functional Keyboard I is an introduction to practical keyboard skills for students whose Principal Applied Study is piano or organ.

Functional accompaniment, transposition and score reading are emphasized.

CH: 0

CR: the former MUS 1137

LC: 1

PR: MUS 1108, permission of the instructor for students whose Principal Applied Study is not a keyboard instrument, and admission to the Bachelor of Music Degree program

2412 Advanced Functional Keyboard II is a continuation of MUS 2411.

CH: 1

CR: the former MUS 1138

LC: 1

PR: MUS 2411, permission of the instructor for students whose Principal Applied Study is not a keyboard instrument, and admission to the Bachelor of Music Degree program

2611 Festival Choir requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: approval of the instructor

UL: may only obtain a maximum of 10 credit hours

2612 Chamber Choir requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 8 credit hours

2613 Chamber Orchestra requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 8 credit hours

2614 Concert Band requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: approval of the instructor

UL: may only obtain a maximum of 8 credit hours

2615 Jazz Ensemble requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 8 credit hours; available for credit only to students who successfully audition for participation in the ensemble; not applicable as an elective under the Bachelor of Arts program; students in the Faculty of Education should consult the Office of Student Services in the Faculty of Education regarding applicability of this course to their education degree program.

2616 Opera Workshop requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 8 credit hours; available for credit only to students who successfully audition for participation in the ensemble; not applicable as an elective under the Bachelor of Arts program; students in the Faculty of Education should consult the Office of Student Services in the Faculty of Education regarding applicability of this course to their education degree program.

2617 Opera Workshop requires six hours rehearsal per week.

AR: attendance is required

CH: 2

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 16 credit hours; available for credit only to students who successfully audition for participation in the ensemble; not applicable as an elective under the Bachelor of Arts program; students in the Faculty of Education should consult the Office of Student Services in the Faculty of Education regarding applicability of this course to their education degree program.

2619 Wind Ensemble requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition

UL: may only obtain a maximum of 8 credits in 2619 or a combination of 2614 and 2619

2620 Instrumental Ensemble requires three hours rehearsal per week.

AR: attendance is required

CH: 1

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 8 credit hours

263A/B Chamber Orchestra requires 15 hours of rehearsal per semester.

AR: attendance is required

CH: 1 credit hour per two semesters

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 4 credit hours; available for credit only to students who successfully audition for participation in the ensemble; not applicable as an elective under the Bachelor of Arts program; students in the Faculty of Education should consult the Office of Student Services in the Faculty of Education regarding applicability of this course to their education degree program.

265A/B Jazz Ensemble requires 15 hours of rehearsal per semester.

AR: attendance is required

CH: 1 credit hour per two semesters

PR: an audition. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

UL: may only obtain a maximum of 4 credit hours; available for credit only to students who successfully audition for participation in the ensemble; not applicable as an elective under the Bachelor of Arts program; students in the Faculty of Education should consult the Office of Student Services in the Faculty of Education regarding applicability of this course to their education degree program.

2700 Lyric Diction I is a study of English, German, French and Italian lyric diction. The International Phonetic Alphabet will be introduced and applied to singing in these four languages.

CH: 1

LC: 1

PR: open only to students whose Principal Applied Study is Voice and admission to the Bachelor of Music Degree program

2701 Lyric Diction II is a continuation of MUS 2700.

CH: 1

LC: 1

PR: MUS 2700; open only to students whose Principal Applied Study is Voice and admission to the Bachelor of Music Degree program

3401 Functional Keyboard III is continuation of MUS 2402. Emphasis is on functional keyboard skills for classroom music teachers.

CH: 0

CR: the former MUS 2127

LC: 1

PR: MUS 2402 and admission to the Bachelor of Music Degree program

UL: may not be taken for credit by students whose Principal Applied Study is a keyboard instrument

3402 Functional Keyboard IV is a continuation of MUS 3401.

CH: 1

CR: the former MUS 2128

LC: 1

PR: MUS 3401 and admission to the Bachelor of Music Degree program

UL: may not be taken for credit by students whose Principal Applied Study is a keyboard instrument

340A/B Principal Applied Study III is a continuation of MUS 240A/B for students whose Major is other than Performance.

AR: attendance is required at School of Music recitals

CH: 4

CO: one of MUS 2611-2620 in accordance with Ensemble II under the **Core Program**

CR: MUS 345A/B

OR: one hour per week of individual instruction

PR: MUS 240A/B, successful completion of MUS 1006, 1108, 1118 and the former 1138, and admission to the Bachelor of Music Degree program

3411 Advanced Functional Keyboard III is a continuation of MUS 2412. Emphasis is on functional keyboard skills for classroom music teachers.

CH: 0

CR: the former MUS 2137

LC: 1

PR: MUS 2412, permission of the instructor for students whose Principal Applied Study is not a keyboard instrument, and admission to the Bachelor of Music Degree program

3412 Advanced Functional Keyboard IV is a continuation of MUS 3411.

CH: 1

CR: the former MUS 2138

LC: 1

PR: MUS 3411, permission of the instructor for students whose Principal Applied Study is not a keyboard instrument, and admission to the Bachelor of Music Degree program

345A/B Principal Applied Study III - Performance is a continuation of MUS 240A/B. A more intensive approach to performance than in MUS 340A/

B. Students are required to present a public recital consisting of 25 to 35 minutes of music to be given before the last day of classes in the second semester of the course.

AR: attendance is required at School of Music recitals

CH: 6

CO: one of MUS 2611-2620 in accordance with Ensemble II under the

Core Program

CR: MUS 340A/B

OR: one hour per week of individual instruction

PR: MUS 240A/B, successful completion of MUS 1006, 1108, and 1118, and admission to the Bachelor of Music Degree program; open only to Performance Majors

3500 Chamber Music Seminar is an introduction to principles and practices in chamber music performance with an overview of repertoire research methods.

AR: attendance is required

CH: 1

CO: first registration in MUS 3511 or 3512

CR: the former MUS 3510

PR: an audition and admission to the Bachelor of Music Degree program. Contact the instructor or the School of Music office before the beginning of the semester regarding the audition.

3511 Chamber Music requires the ensemble to prepare and perform a recital of 10-15 minutes of music. Each ensemble receives six hours of coaching in preparation for the performance.

AR: attendance is required at all coachings and masterclasses

CH: 1 per semester

CO: MUS 3500 for first registration in MUS 3511 or 3512

PR: permission of the instructor and admission to the Bachelor of Music Degree program; repertoire to be performed must be approved prior to registration

UL: may only obtain a maximum of 8 credit hours

3512 Chamber Music requires the ensemble to prepare and perform a recital of 18-22 minutes of music. Each ensemble receives nine hours of coaching in preparation for the performance.

AR: attendance is required at all coachings and masterclasses

CH: 2 per semester

CO: MUS 3500 for first registration in MUS 3511 or 3512

PR: permission of the instructor and admission to the Bachelor of Music Degree program; repertoire to be performed must be approved prior to registration

UL: may only obtain a maximum of 12 credit hours

3513 Chamber Music requires the ensemble to prepare and perform a recital of 25-30 minutes of music. Each ensemble receives twelve hours of coaching in preparation for the performance.

AR: attendance is required at all coachings and masterclasses

CH: 3 per semester

PR: permission of the instructor and admission to the Bachelor of Music Degree program; repertoire to be performed must be approved prior to registration

UL: may only obtain a maximum of 18 credit hours

3514 Small Ensemble is a conducted ensemble requiring two hours per week of rehearsal.

CH: 1 per semester

PR: permission of the Dean and admission to the Bachelor of Music Degree program

UL: may only obtain a maximum of 6 credit hours

3515 Accompaniment requires the students to meet for one hour per week in a masterclass. Coaching will be given to prepare for performance of a 15- to 20-minute program with a singer or instrumentalist.

AR: attendance is required

CH: 1 per semester

PR: admission to the Bachelor of Music Degree program; open only to students whose Principal Applied Study is a keyboard instrument; others by permission of the Dean; repertoire to be performed must be approved prior to registration

UL: may only obtain a maximum of 4 credit hours

3516 Accompaniment requires students to meet for one hour per week in a masterclass. Coaching will be given to prepare for performance of a half-hour program with a singer or instrumentalist.

AR: attendance is required

CH: 2 per semester

PR: admission to the Bachelor of Music Degree program; open only to students whose Principal Applied Study is a keyboard instrument; others by permission of the Dean; repertoire to be performed must be approved prior to registration

UL: may only obtain a maximum of 8 credit hours

3517 World Music Ensemble is a coached activity exploring one or more world music repertoires. This ensemble requires 2 hours of rehearsal per week.

AR: attendance is required

CH: 1 per semester

PR: admission to the Bachelor of Music Degree program

UL: may only obtain a maximum of 6 credit hours

3518 Contemporary Music/Improvisation Ensemble is a coached activity exploring improvisation and/or contemporary repertoire for mixed ensembles. This ensemble requires 2 hours of rehearsal per week.

AR: attendance is required

CH: 1 per semester

PR: admission to the Bachelor of Music Degree program

UL: may only obtain a maximum of 6 credit hours

3605 Music Theatre Workshop - inactive course.

3704 Career Skills for Musicians is an exploration of careers in music. Topics may include preparation of CVs, resumes, cover letters, business plans, grant applications, web sites, press kits and other promotional materials, tax, legal and business issues in the arts; and the study of successful arts enterprises.

CR: the former MUS 3703

PR: MUS 140B and admission to the Bachelor of Music Degree program

3711 Jazz Styles and Improvisation is an applied course for singers and instrumentalists, which aims to integrate the theory and practice of jazz. Jazz styles and improvisation will be explored through listening (recordings and live performance), imitation, and improvisation of selected jazz standards.

PR: MUS 240B or permission of the instructor, and admission to the Bachelor of Music Degree program

3712 Improvisation is an introduction to the art and practice of Improvisation through guided ensemble exploration and performance, score study and the application of contemporary performance practice.

PR: MUS 240A/B and admission to the Bachelor of Music Degree program

3722 Brass Seminar has topics selected from: issues of brass performance practice, history of brass instruments, brass literature and pedagogy, performance anxiety, comparative performances of brass repertoire, and other issues of special relevance to brass players.

CH: 1 per semester

PR: admission to the Bachelor of Music Degree program. Open only to students whose Principal Applied Study is a brass instrument; others by permission of the Dean.

UL: may only obtain a maximum of 2 credit hours

3732 Woodwind Seminar has topics selected from: issues of woodwind performance practice, history of woodwind instruments, woodwind literature and pedagogy, performance anxiety, comparative performances of woodwind repertoire, and other issues of special relevance to woodwind players.

CH: 1 per semester

PR: admission to the Bachelor of Music Degree program. Open only to students whose Principal Applied Study is a woodwind instrument; others by permission of the Dean.

UL: may only obtain a maximum of 2 credit hours

3742 String Seminar has topics selected from: issues of string performance practice, history of string instruments, string literature and pedagogy, performance anxiety, comparative performances of string repertoire, and other issues of special relevance to string players.

CH: 1 per semester

PR: admission to the Bachelor of Music Degree program. Open only to students whose Principal Applied Study is a string instrument; others by permission of the Dean.

UL: may only obtain a maximum of 2 credit hours

3751 Studio Pedagogy is designed to provide students with a basic knowledge of resources and pedagogical approaches used in studio teaching at various levels. May include guest masterclasses and lectures.

CO: MUS 140B or permission of the instructor

CR: the former MUS 3773

PR: MUS 140B or permission of the instructor, and admission to the Bachelor of Music Degree program

3764 Vocal Pedagogy provides a thorough study of the anatomy, physiology and acoustics of the vocal tract and singing voice as well as a practical application of these topics.

CR: the former MUS 3761, 3762, 3763

PR: Music 140B in voice, and admission to the Bachelor of Music Degree program

3774 Piano Pedagogy is designed to provide students with a basic knowledge of resources and pedagogical approaches used in piano studio teaching at various levels. May include guest masterclasses and lectures.

CO: MUS 140B or permission of the instructor

CR: the former MUS 3772

PR: MUS 140B or permission of the instructor, and admission to the Bachelor of Music Degree program

440A/B Principal Applied Study IV is a continuation of MUS 340A/B.

AR: attendance is required at School of Music recitals
 CH: 4
 CO: one of MUS 2611-2620 in accordance with Ensemble II listed under the **Core Program**
 CR: MUS 445A/B
 OR: one hour per week of individual instruction
 PR: MUS 340A/B, successful completion of MUS 2006, 2108, and 2118, and admission to the Bachelor of Music Degree program

445A/B Principal Applied Study IV - Performance is a continuation of MUS 345A/B. Students are required to present a public recital consisting of 50 to 60 minutes of music with program notes. This recital will normally take place in the second semester, before the last day of classes. A minimum grade of 75% is required to pass MUS 445B.

AR: attendance is required at School of Music recitals
 CH: 6
 CO: one of MUS 2611-2620 in accordance with Ensemble II listed under the **Core Program**
 CR: MUS 440A/B
 OR: one hour per week of individual instruction
 PR: MUS 345A/B, successful completion of MUS 2006, 2108, and 2118 and admission to the Bachelor of Music Degree program; open only to Performance Majors

4503 Special Topics in Applied Music will have topics to be studied announced by the School of Music.

CH: 1 per semester
 PR: admission to the Bachelor of Music Degree program
 UL: may only obtain a maximum of 3 credit hours

4504 Special Topics in Applied Music will have topics to be studied announced by the School of Music.

CH: 2 per semester
 PR: admission to the Bachelor of Music Degree program
 UL: may only obtain a maximum of 4 credit hours

4505 Special Topics in Applied Music will have topics to be studied announced by the School of Music.

CH: 3 per semester
 PR: admission to the Bachelor of Music Degree program
 UL: may only obtain a maximum of 6 credit hours

4701 Music in the Community allows students to explore the role of the artist in the community by planning and carrying out a community music-making project. Students will be required to propose a viable collaborative project prior to registering.

CH: 1
 PR: MUS 3704 or the former MUS 3703, permission of the Dean, and admission to the Bachelor of Music Degree program

4702 Music in the Community allows students to explore the role of the artist in the community by planning and carrying out a community music-making project. Students will be required to propose a viable collaborative project prior to registering.

CH: 2
 PR: MUS 3704 or the former MUS 3703, permission of the Dean, and admission to the Bachelor of Music Degree program

4703 Music in the Community allows students to explore the role of the artist in the community by planning and carrying out a community music-making project. Students will be required to propose a viable collaborative project prior to registering.

PR: MUS 3704 or the former MUS 3703, permission of the Dean, and admission to the Bachelor of Music Degree program

11.2 Ensemble Techniques Courses

All courses in ensemble techniques are available only to candidates for the degree of Bachelor of Music except where specified.

2311 Voice/Choral Materials I is a practical study, in a class situation, of vocal production, choral conducting and rehearsal techniques. This course is open to Bachelor of Music degree students and students in the Music Concentration Program for the Bachelor of Education (Primary or Elementary) degree.

2312 Voice/Choral Materials II is a continuation of MUS 2311.
 PR: MUS 2311

3221 Brass Techniques I meets one hour per week. Practical study, in a class situation, of the basic techniques of playing brass instruments.
 CH: 1

3222 Brass Techniques II meets one hour per week. A continuation of MUS 3221. Students whose Principal Applied Study is a brass instrument must have the permission of the instructor to take this course.

CH: 1

3231 Flute Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the flute.

CH: 1
 UL: may not be taken for credit by students whose Principal Applied Study is flute.

3232 Single Reed Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the clarinet and/or saxophone.

CH: 1
 PR: permission of the instructor for students whose Principal Applied Study is clarinet or saxophone.

3233 Double Reed Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the oboe and/or bassoon.

CH: 1
 PR: permission of the instructor for students whose Principal Applied Study is oboe or bassoon.

3241 Upper String Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the violin and viola.

CH: 1
 UL: may not be taken for credit by students whose Principal Applied Study is violin or viola

3242 Lower String Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the cello and string bass.

CH: 1
 PR: permission of the instructor for students whose Principal Applied Study is cello or string bass.

3261 Guitar Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the guitar.

CH: 1
 UL: may not be taken for credit by students whose Principal Applied Study is guitar.

3271 Organ Techniques meets one hour per week. Practical study, in a class situation, of the basic techniques of playing the organ.

CH: 1
 PR: permission of the instructor for students whose Principal Applied Study is not piano.

3272 Harpsichord Techniques meets one hour per week. Practical study in a class situation of the basic techniques of playing the harpsichord.

CH: 1
 PR: permission of the instructor for students whose Principal Applied Study is not piano or organ.

3281 Percussion Techniques I meets one hour per week. Practical study, in a class situation, of the basic techniques of playing percussion instruments.

CH: 1
 UL: may not be taken for credit by students whose Principal Applied Study is percussion.

3282 Percussion Techniques II meets one hour per week and is a continuation of MUS 3281.

CH: 1
 PR: MUS 3281
 UL: may not be taken for credit by students whose Principal Applied Study is percussion.

3316 Instrumental Lab meets 1½ hours per week and is a continuation of the former MUS 3315. This course will not be offered after Winter 2014.

CH: 1
 PR: MUS 3321 or the former MUS 3315

3321 Instrumental Conducting I is the practical study of conducting and rehearsal techniques for band and orchestra.

AR: attendance is required
 CR: the former MUS 3311, 3313
 PR: MUS 1108

3322 Instrumental Conducting II is continuation of MUS 3321.

AR: attendance is required
 CR: the former MUS 3312, 3314
 PR: Music 3321

11.3 Music Theory and Composition Courses

1107 Materials and Techniques of Music I is the study of the basic materials of tonal music; introduction to melody writing and phrase structures; introduction to voice leading with emphasis on chorale style; analysis and composition of smaller formal elements.

CO: MUS 1117

CR: the former MUS 110A, the former MUS 1113
 PR: MUS 1120 with a minimum mark of 75% or successful completion of the Theory Placement Test.

1108 Materials and Techniques of Music II is a continuation of MUS 1107. Harmonic vocabulary is expanded to include all diatonic triads and seventh chords, with an introduction to chromatic harmony; phrase expansions and contractions; analysis and composition of binary and ternary forms.

CR: the former MUS 110B, the former MUS 1114
 PR: MUS 1107

1116 Basic Musicianship is an introduction to sight-singing and dictation for students whose level of preparation is not adequate for MUS 1117.

CH: 1
 LC: 2
 UL: not applicable to the Bachelor of Music degree.

1117 Aural Skills I is a course on sight-singing and dictation.

CH: 1
 CO: MUS 1107
 LC: 2
 PR: a minimum grade of 75% in MUS 1116 or successful completion of the Theory Placement Test.

1118 Aural Skills II is a continuation of MUS 1117.

CH: 1
 LC: 2
 PR: MUS 1107, 1117

1120 Rudiments I is an introductory course in music rudiments and theory. Development of aural skills is emphasized.

UL: not applicable to the Bachelor of Music degree.

2107 Materials and Techniques of Music III is a study of chromatic harmony with emphasis on both writing and analysis. Introduction to sonata form.

CR: the former MUS 210A, the former MUS 2113
 PR: MUS 1108

2108 Materials and Techniques of Music IV is a continuing study of chromatic harmony with an emphasis on enharmonic modulation and other advanced chromatic techniques. Continued study of sonata form, rondo, sonata rondo and variation forms. Written work will include both analysis and composition exercises in the styles studied.

CR: the former MUS 210B, the former MUS 2114
 PR: MUS 2107

2117 Aural Skills III is a continuation of MUS 1118.

CH: 1
 LC: 2
 PR: MUS 1108, 1118

2118 Aural Skills IV is a continuation of MUS 2117.

CH: 1
 LC: 2
 PR: MUS 2107, 2117

3100 Composition I introduces students to a variety of compositional concepts such as selected post-1900 techniques, developments in rhythm and metre, texture, phrase structures, song forms, short forms, and motivic development. The emphasis will be on composing short works employing the compositional devices studied. Students planning to apply for the Major in Composition are strongly encouraged to take this course.

PR: MUS 1108

3104 Electronic Music Studio Techniques I is a course designed to give basic instruction in the theory, technique, and philosophy of electronic music composition. Students obtain the skills necessary to operate the equipment of an electronic music studio (including mixers, synthesizers, and samplers) and to use them in appropriate and creative ways. Objectives of the course are achieved through lecture, lab experiences, listening and practical application.

PR: MUS 1108

3105 Materials and Techniques of Post-Tonal Music is a study of compositional devices used in the twentieth century. Topics include minimalism, new tonality, aleatorism, atonality, set theory, serial techniques, and electronic music.

PR: MUS 2108

3106 Sixteenth-Century Counterpoint is a course combining the analytical study of 16th-century sacred polyphony with an emphasis on the development of compositional skills in this style. Students will be required to write two- and three-part counterpoint exercises and a motet. The principal composers studied will be Palestrina, Lassus and Victoria. Some listening and singing assignments are required.

PR: MUS 1108

3107 Materials and Techniques of Music V is a study of major post-Baroque forms and genres, including sonata, rondo, sonata-rondo, variation, symphony, and concerto, as well as selected twentieth-century styles and

techniques. This course will not be offered after the 2012-2013 academic year.

CR: the former MUS 310B, the former MUS 3114
 PR: MUS 2108, and 1118

3108 Eighteenth-Century Counterpoint is a study of form and polyphony in eighteenth-century music, including the fugue and the Baroque suite. Assignments include analysis, composition, and written exercises in counterpoint.

CR: the former MUS 310A, the former MUS 3113
 PR: MUS 2107

3109 Jazz Theory and Arranging is an introduction to jazz theory and the principles of arranging for jazz ensembles.

PR: MUS 2108

3112 Orchestration I is an introduction to the principles of orchestration with an emphasis on instrumentation.

CR: the former MUS 3102
 PR: MUS 2108 or permission of the instructor

3140 Composition Seminar provides intensive composition study for students whose Major or Minor is Composition.

PR: MUS 2108, 2118, and admission to the Composition Major or Minor
 UL: may only obtain a maximum of 6 credit hours

4104 Electronic Music Studio Techniques II is a continuation of MUS 3104.

PR: MUS 3104

4105 Special Topics in Music Theory will have topics to be studied announced by the School of Music.

CH: 1
 UL: may only obtain a maximum of 3 credit hours

4106 Special Topics in Music Theory will have topics to be studied announced by the School of Music.

CH: 2
 UL: may only obtain a maximum of 4 credit hours

4107 Special Topics in Music Theory will have topics to be studied announced by the School of Music.

UL: may only obtain a maximum of 6 credit hours

4112 Orchestration II is a continuation of MUS 3112, and examines the technique of orchestration as it relates to the symphonic orchestra and other large ensembles.

CR: the former MUS 4102
 PR: MUS 3112, or the former MUS 3102, or permission of the instructor.

4140 Advanced Composition Seminar provides advanced composition study for students whose Major or Minor is Composition. Students will prepare a recital of original works and/or a portfolio of their compositions.

PR: 6 credit hours of MUS 3140, and admission to the Composition Major
 UL: may only obtain a maximum of 6 credit hours

11.4 Musicologies Courses

1005 Thinking and Writing About Music I is designed to develop listening, critical thinking, research and writing skills through selected cross-cultural topics and themes exploring the relationship between music and society. The course will introduce the student to the terminology of music history and the concepts of genre, musical style and style periods. This course has strong listening and writing components.

CR: MUS 2012, the former MUS 1002
 PR: MUS 1120 or successful completion of theory placement test or admission to the Bachelor of Music degree program. The ability to read music is required.

1006 Thinking and Writing about Music II is a continuation of MUS 1005.

PR: MUS 1005

2002 Music History III is an intensive survey, through selected compositions, of the development of musical styles in Europe in the Classical and Romantic Periods. This course has strong listening and writing components. This course will not be offered after the 2012-2013 academic year.

PR: the former MUS 1003

2003 Music History IV is a continuation of MUS 2002. An intensive survey, through selected compositions, of the development of musical styles in the Western world from post-Romanticism and Impressionism to the present, including reference to the history of music in Canada. This course has strong listening and writing components. This course will not be offered after the 2012-2013 academic year.

PR: MUS 2002

2005 History of Western Art Music I is an intensive survey, through selected compositions, of the development of musical style to 1700. This course has strong listening and writing components and continues to

develop research skills.
CO: MUS 1107
CR: the former MUS 1003
PR: MUS 1006

2006 History of Western Art Music II is a continuation of MUS 2005. An intensive survey, through selected compositions, of the development of musical styles in the Western world from 1700 to 1900. This course has strong listening and writing components and continues to develop research skills.

CR: the former MUS 2002
PR: MUS 2005

2011 North American Popular Music is a survey of the major genres of North American popular music. The course has three organizing themes: 1) the influence of Euro-American musics, African-American musics, and Latin American musics on popular music, 2) the relationship between popular music, capitalism, and technology, and 3) popular music as a medium for the portrayal of identity. This course has a strong listening component. The ability to read music is not required.

UL: not applicable to the Bachelor of Music Degree.

2012 Understanding Classical Music: Introduction Through Guided Listening is a course designed to enhance and develop listening skills and an understanding of the basic elements of music. Form and musical style in Western classical music will be explored within a cultural and historical context. Through guided listening, the student will be exposed to a variety of musical styles and traditions. This course has a strong listening component. The ability to read music is not required.

CR: MUS 1005, 1006, 2005, 2006 or the former MUS 1000, 1001, 1002, 1003, 1010, 1020 or 1021

UL: not applicable to the Bachelor of Music Degree.

2013 Twentieth-Century Musicals (same as English 1213) is a survey of twentieth-century musical theatre. Selected works, presenting different styles and periods, will be examined in detail. There will be a strong, required listening/viewing component to this course. The ability to read music is not required.

CR: MUS 3007, English 1213

UL: not applicable to the Bachelor of Music Degree.

2014 Introduction to World Music provides an introduction to the musics of selected cultures and contemporary intercultural communities. Drawing on topics and issues in ethnomusicology, it focuses on musical practices, beliefs, and techniques. It is intended to develop listening skills, broaden musical horizons, as well as to enable a deeper understanding of the way music functions in relation to social groups and individual lives.

UL: not applicable to the Bachelor of Music Degree.

2021 Newfoundland and Labrador Folksinging is an introduction to the sociocultural contexts, functions, and meanings of folksong in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral and scholarly histories, the course offers practical instruction by a tradition-bearer in the singing of traditional Newfoundland and Labrador tunes and texts, using the techniques of aural transmission and assisted by the written medium where appropriate.

UL: no more than 3 credit hours from the 2021-2023 series may be applied toward the Bachelor of Music Degree

2022 Newfoundland and Labrador Fiddling is an introduction to the sociocultural contexts, functions, and meanings of fiddling in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral histories, the course offers practical instruction by a tradition-bearer on the fiddle, using the techniques of aural transmission and assisted by the written medium where appropriate.

UL: no more than 3 credit hours from the 2021-2023 series may be applied toward the Bachelor of Music Degree

2023 Newfoundland and Labrador Accordion is an introduction to the sociocultural contexts, functions, and meanings of accordion music in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral histories, the course offers practical instruction by a tradition-bearer on the button accordion, using the techniques of aural transmission and assisted by the written medium where appropriate.

UL: no more than 3 credit hours from the 2021-2023 series may be applied toward the Bachelor of Music Degree

3004 The Development of Symphonic Music (formerly MUS 3020) is a study of the development of symphonic literature from the late Baroque era to the present day. Selected compositions, representing different periods and styles, will be examined in detail. This course has a strong listening component.

CR: the former MUS 3020
PR: MUS 2005

3005 The Development of Opera is a study of the development of opera from the beginnings to the present day. Selected operas, representing different periods and styles, will be examined in detail. This course has a strong listening component.

PR: MUS 2005

3006 The History of the Concerto is a study of the development of the concerto from the late Baroque until the present day. Selected compositions, representing different styles and periods, will be examined in detail. This course has a strong listening component.

PR: MUS 2005

3007 A History of Popular Music in Drama is a survey of popular music styles in drama from the rise of the *Singspiel* to the musicals of Andrew Lloyd Weber. Selected works, representing different styles and periods, will be examined in detail. This course has a strong listening component.

CR: MUS 2013, English 2013

PR: MUS 2005 or permission of the instructor

3009 Music in the Modern World is an intensive study of music in the 20th and 21st centuries. Focused themes address a wide range of genres and styles with particular attention to music's interaction with the other arts and with society. This course has strong listening and writing components and continues to develop research skills.

CR: the former MUS 2003

PR: MUS 2006

3014 World Music: Musics of Asia and Oceania is an examination of musical theory, genres, instruments, aesthetics, and functions of music in Asia and Oceania, including the classical music of the Indian subcontinent, ritual musics of East Asia, gong-chime ensembles of Southeast Asia, and traditional musics of Polynesia and Australia. This course has a strong listening component.

PR: MUS 1120 with a minimum mark of 75% or equivalent and completion of at least 24 credit hours of university course work

3015 World Music: Music of Africa and the Americas is an examination of musical theory, genres, instruments, aesthetics, and functions of music in Africa and the Americas, including traditional African musics, neo-African musics of the Americas, Native American musics, and traditional South American musics. This course has a strong listening component.

PR: MUS 1120 with a minimum mark of 75% or equivalent and completion of at least 24 credit hours of university course work

3016 Canadian Musical Traditions is a survey of musical streams in Canadian music history from colonial times to the present, including indigenous and transplanted musical traditions, and Canadian art music. This course has a strong listening component.

PR: MUS 1120 with a minimum mark of 75% or equivalent and completion of at least 24 credit hours of university course work

3017 Music, Song and Tradition (same as Folklore 3200) introduces students to a wide range of traditional song. Students will hear and discuss local, regional and international examples. Ability to read music or familiarity with music theory not required.

CH: 3

CR: FOLK 3200, the former FOLK 4445

3018 Jazz and Blues: The Roots of Popular Music (same as Folklore 3618) is an overview of blues and jazz as traditional musical forms. Lectures and listening will illustrate the development of regional music cultures and generic styles. To better understand the shift of blues and jazz from regional to global performance contexts, the course will examine the effects of changing transmissional media, from predominantly sensory media through contemporary media technologies. A term paper concerning musical style will entail library research and aural analysis.

CR: Folklore 3618

3019 Popular Music Studies will explore a number of genres in the historical development of world popular music and dance, along some of the following themes: the roles of race, class, gender, sexuality, age, and ability in popular music production and reception; processes and effects of mass media and technology in shaping genres and consumers' experience of them; and cross-cultural influences within and across national borders.

PR: MUS 1120 with a minimum mark of 75% or equivalent and completion of at least 24 credit hours of university course work

3060 Voice Literature and Performance Practice is a survey of selected solo vocal repertoire from the Renaissance to the present day. Stylistic development and performance practices will be emphasized.

PR: MUS 140B in voice or permission of the instructor.

3070 Piano Literature and Performance Practice is a survey of piano repertoire from the Baroque era to the present day. Stylistic development and performance practices will be emphasized.

PR: MUS 140B in piano or permission of the instructor

4001 The First Viennese School is a study of the music composed in the Austro-Hungarian Empire from 1770 to 1800. The works of Haydn, Mozart and the young Beethoven will be investigated with particular emphasis on musical style, performance practices and cultural context. Listening will focus on complete works or extended excerpts.

PR: MUS 2006

4002 Studies in Baroque Music is an examination of aspects of musical style and performance practices in the baroque period through the study of

selected topics and specific musical examples. The course includes reading assignments, listening, score reading, and taking part in class demonstrations.

PR: MUS 2006

4003 Special Topics in Musicologies will be announced by the School of Music.

CH: 1 per semester

UL: may only obtain a maximum of 3 credit hours

4004 Special Topics in Musicologies will be announced by the School of Music.

CH: 2 per semester

UL: may only obtain a maximum of 4 credit hours

4005 Special Topics in Musicologies will be announced by the School of Music.

UL: may only obtain a maximum of 6 credit hours

4040 Music and Culture (same as Folklore 4440, the former Anthropology 4440, the former MUS 4440) examines traditional music as an aspect of human behaviour in Western and non-European cultures. Examination of

the functions and uses of music; folk- popular-art music distinctions; and the relation of style to content. Outside reading, class exercises and individual reports will be required.

CR: Folklore 4440, the former Anthropology 4440, the former MUS 4440

4094 Introduction to Music Research is a study of bibliography and various aspects of research methods appropriate to the study of music. Students will participate in group and individual projects, and give a seminar presentation in class. This course will not be offered after the 2013-2014 academic year.

PR: MUS 2003

4095 Graduating Essay is directed study which will result in the production of an original paper dealing with a topic in musicologies (including but not limited to music history, ethnomusicology, and popular music studies). This course is restricted to Musicologies Majors. A one-page research proposal and sample bibliography of at least ten items must be submitted to the Dean by the end of the seventh week of classes in the previous semester.

PR: admission to the Musicologies Major

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

SCHOOL OF NURSING

SCHOOL OF NURSING

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www.mun.ca/nursing/about_us/

Dean

McFetridge-Durdle, J., B.N., M.N. *Dalhousie*, Ph.D. *University of Florida*; Postdoctoral Fellowship *Duke University*; Professor; Visiting Professor, *Jilin University, China*, 2010-2015

Associate Dean (Graduate Program and Research)

Solberg, S.M., B.A., B.N. *Memorial*, M.N., Ph.D. *Alberta*; Professor; Adjunct Professor, *Dalhousie University*, 2002-2012

Associate Dean (Undergraduate Programs)

Webber, K., B.Sc.N. *British Columbia*, M.N. *Dalhousie*; Associate Professor

Clinical Co-ordinator

Morgan, C., B.N. *Memorial*

Senior Administrative Officer

Wroblewski, V., B.A.M., B.Ed. *Acadia*, B.Comm. *Dalhousie*, CA (Nova Scotia)

Professors

Beaton, M., B.Sc. *Memorial*, M.Sc.N. *New York Medical College*, M.B.A. *Memorial*
 Gaudine, A., B.Sc. *Mount Allison*, M.Sc. (A) *McGill*, Ph.D. *Concordia*; Adjunct Professor, *Dalhousie University*, 2007-2012; Cross appointment with the Counselling Centre, 2007-2012
 Gien, L., B.Sc.N. *Loretta Heights College*, M.Ed.N. *Columbia*, Ph.D. *London*
 LeFort, S., B.A. *Trent*, B.N., M.N. *Memorial*, Ph.D. *McGill*; Visiting Professor, *Bournemouth University*, UK, 2011-2013
 MacDonald, S., B.N., M.N. *Memorial*, Ph.D. *Walden*; Winner of President's Award for Distinguished Teaching 2011
 Moralejo, D., B.A., B.Sc., M.Sc.(A) *McGill*, Ph.D. *Calgary*
 Way, C., B.N., B.A. *Memorial*, M.Sc.(A) *McGill*, Ph.D. *Virginia*; Winner of President's Award for Distinguished Teaching 1999; Joint appointment, Discipline of Medicine (Clinical Epidemiology), Faculty of Medicine, 2009-2012

Associate Professors

Banoub-Baddour, S., B.Sc.N., M.Sc.N., D.N.Sc. *Alexandria*; Adjunct Professor, *Dalhousie University*, 2007-2012
 Beck, D., B.N., M.Sc., Ph.D. *Memorial*
 Bennett, L., B.N., M.N. *Memorial*
 Best, D., B.N. *Memorial*, M.N. *Dalhousie*, Cert. ACNP *Toronto*
 Dawe, D., B.N., M.Sc. *Memorial*
 Kearney, A., B.N., Ph.D. *Memorial*, M.H.Sc. *Toronto*; Joint appointment, Community Health and Humanities, Faculty of Medicine; Adjunct Professor, *Dalhousie University* 2007-2012 (on secondment)
 Meadus, R., B.N., B.Voc.Ed. *Memorial*, M.Sc.(N). *Toronto*, Ph.D. *Barry*
 Parsons, K., B.N., M.N. *Memorial*, Ph.D. *Rush*
 Small, S., B.N. *Memorial*, M.Sc.N. *Toronto*, Ph.D. *Alberta*
 Westera, D., B.N., M.Ed. *Memorial*, M.Sc.N. *Toronto*

Assistant Professors

Brennan-Hunter, A., B.Sc.N. *St. Francis Xavier*, M.N. *Dalhousie*
 Burse, M., B.N., *Memorial*, M.Sc.(N). *Toronto*
 Cooze, L., B.N., M.N. *Memorial*
 Daly, M., B.N., M.N. *Memorial*
 Dobbin-Williams, K., B.N., M.N. *Memorial*
 Khraim, F., B.Sc.N. *Jordan University of Science & Technology*, M.N., Ph.D. *SUNY at Buffalo*
 King-Jessó, P., B.N., M.N. *Memorial*
 Manuel, A., B.N., M.N. *Memorial*
 Moody, J., B.N., M.N. *Memorial*
 Murray, C., B.N., M.N. *Memorial*, Ph.D. *Alberta*
 Poir, C., B.Sc.N. *McMaster*, M.N. *Calgary*, Ph.D. *Alberta*
 Twomey, C., B.N., M.N. *Memorial*
 Young, W., B.Sc. *Trent*, M.A. *Queen's*, Ph.D. *Toronto*; Canada Research Chair in Healthy Aging in Nursing and Community Health & Humanities

Adjunct Professors

Bulman, D., B.N. *Dalhousie*, M.Ad.Ed. *St. Francis Xavier*, Ph.D. *Nottingham*
 Carr, E., B.Sc.(Hons) *Surrey University*, M.Sc., Ph.D. *King's College*
 Ersser, S., B.Sc.(Hons) *London South Bank University*, Ph.D. *King's College*
 Hardill, I., B.A. *University College of Swansea*, B.A. *Wales*, Ph.D. *University of New Castle Upon Tyne*

Lamb, M., B.Sc. *Ottawa*, M.N. *Alberta*, Ph.D. *Toronto*

Professional Associates

Barron, K., M.N., M.N. *Memorial*
 Basha, M., B.N., M.N. *Memorial*
 Coffey-Hickey, T., B.N., M.N. *Memorial*
 Compton, G., B.N., M.N. *Memorial*
 Coombs, E., B.N., M.N. *Memorial*
 Downey, C., B.N., M.N. *Memorial*
 Duke, V., B.N. *Memorial*, M.N. *Toronto*, Dip. PHCNP *Centre for Nursing Studies*
 Earles, B., B.N., M.N. *Memorial*
 Emberley-Burke, W., B.N., M.Ed. *Memorial*, Dip. PHCNP *Centre for Nursing Studies*
 Faulkner, T., B.Sc.N. *St. Francis Xavier*, M.N. *Memorial*
 Fry, P.L., B.N., M.N. *Memorial*
 Gillam, S., B.N., M.N. *Memorial*, Ph.D. *McGill*
 Greene, M., B.N. *Dalhousie*, M.Sc. *Edinburgh*, Cert. ACNP *Toronto*
 Hunt-Smith, H., B.N., M.N. *Memorial*
 Manning, A., B.N., M.N. *Memorial*
 Neville, K., B.Sc.N. *Maine*, M.N. *Memorial*
 O'Brien, L.A., B.N. *Memorial*
 Pike, R., B.N., M.N. *Memorial*
 Rose, J., B.N. *Memorial*, M.B.A. *California Coast University*
 Sheppard, P., B.N., M.N. *Memorial*
 Simms, J., B.N. *Memorial*, M.N. *Dalhousie*, Cert. ACNP *Toronto*
 Skinner, T., B.N., M.N. *Memorial*
 Smith, S., B.N., M.N. *Memorial*
 Templeton, J., B.N., M.N. *Memorial*

Cross Appointment

Maddalena, V., B.N., M.H.S.A., Ph.D. *Dalhousie*; Cross appointment from the Division of Community Health & Humanities, Faculty of Medicine

Bachelor of Nursing (Collaborative) Sites

Centre for Nursing Studies

Director

Kearney, A., B.N., Ph.D. *Memorial*, M.H.Sc. *Toronto*

Associate Director

Tracey, A.M., B.N., M.Ed. *Memorial*

Faculty

Anstey, A., B.N., M.N. *Memorial*
 Barron, A., B.N., M.N. *Memorial*
 Brophy, K., B.N., M.Ed. *Memorial*
 Brown, D., B.N. *Memorial*
 Browne, M., B.N. *Memorial*, M.N. *Athabasca*
 Bruneau, J., B.N. *Memorial*, M.S.Sc., Cert. ACNP, *Toronto*
 Budden F., B.N. *Memorial*
 Carter, S., B.N., M.N. *Memorial*
 Cashin, G., B.N., M.N. *Memorial*
 Chafe, J., B.N., M.N. *Memorial*
 Collins, K., B.N. *Memorial*
 Cronin, J., B.N. *Memorial*
 Duke, V., B.N. *Memorial*, Dip. PHCNP *Centre for Nursing Studies*, M.N.-N.P. *Toronto*
 Earle-Crane, M., B.N., M.N. *Memorial*
 Emberley-Burke, W., B.N., M.Ed. *Memorial*, Dip. PHCNP *Centre for Nursing Studies*
 English, D., B.N., M.N. *Memorial*
 Fifield, P., B.N. *Memorial*
 Grainger, P., B.N., M.N. *Memorial*
 Greene, M., B.N. *Dalhousie*, M.Sc. *Edinburgh*, Cert. ACNP *Toronto*
 Hynes, E., B.N., M.N. *Memorial*
 Katic-Duffy, A., B.Sc.N. *Western Ontario*, M.N. *Athabasca*
 Kelly, L., B.N., M.N. *Memorial*
 Langor, G., B.N., M.Ed. *Memorial*
 Lanphear, D., B.N., M.Ed. *Memorial*
 Lewis, A.M., B.N. *Memorial*, M.N. *Athabasca*
 Mandville-Anstey, S.A., B.N., M.N. *Memorial*
 Marsh, J., B.N., M.N. *Memorial*
 Matchim, S., B.N., M.N. *Memorial*
 Moran, G., B.N., M.N. *Memorial*
 Power, M., B.N., M.N. *Memorial*
 Power-Kean, K., B.N. *Memorial*, Dip. PHCNP *Centre for Nursing Studies*, M.H.Sc. *Athabasca*
 Pyne, D., B.N., M.N. *Memorial*
 Robbins, L., B.N. *Memorial*, M.N. *Athabasca*

Schofield, G., B.Sc., B.Ed. *Mount Allison, B.N. Dalhousie, M.Ed. Memorial*
 Smith, K., B.N., M.Ed. *Memorial*
 Snow, N., B.N., M.N. *Memorial*
 Stevens, K., B.N., M.N. *Memorial*
 Street, K., B.N., M.N. *Memorial*
 Thorburn, B., B.Sc.N. *St. Francis Xavier, M.Ed. Memorial*
 Tobin, B., B.N., M.N. *Memorial*
 Tweedie, K., B.Sc. *Edinburgh, B.N. Memorial, M.M. Glasgow*
 Wadman, W., B.A.(A) *Nursing Ryerson, M.N. Memorial*
 Walsh, L., B.N., M.Ed. *Memorial*
 Ward, P., B.N., M.Ed. *Memorial*
 Watkins, K., B.N., M.N. *Memorial*

Western Regional School of Nursing

Director

Norman-Robbins, L., B.N., M.Sc.(A) *McGill*

Associate Director (Curriculum)

Turner, B., B.N., M.N. *Memorial*

Associate Director (Administration)

Stratton, C., B.N., M.N. *Memorial*

Faculty

Alteen, A.M., B.N., M.N. *Memorial*

Anderson, C., B.N. *New Brunswick, M.N. Memorial*
 Barnable, A., B.N., M.N. *Memorial*
 Colbourne, P., B.N. *Memorial*
 Cuning, G., B.N., M.N. *Memorial*
 Didham, P., B.N. *Memorial, M.Ed. St. Francis Xavier*
 Edwards, D., B.N. *Memorial, M.N. Athabasca*
 Hancock, P., B.N. *Memorial*
 Lamswood, J., B.N., M.N. *Memorial*
 Lundrigan, E., B.N. *Memorial, M.Ed. St. Francis Xavier*
 Manuel, M., B.N. *Memorial, M.N. Athabasca*
 Moores, P., B.N. *Memorial, M.N. Athabasca*
 Penney, S., B.N. *Memorial*
 Read, T., B.N. *Memorial, M.N. University of New Brunswick*
 Rolfe, P., B.N., M.N. *Athabasca, B.Sc., M.Sc. Memorial*
 Sparkes, C., B.N. *Memorial*
 Strickland, J., B.N. *Memorial, M.N. University of New Brunswick*
 Wells, C., B.Sc.N. *Ottawa, M.N. Dalhousie*
 Wells, J., B.N., M.N. *Memorial, Ph.D. Calgary*
 White, M., B.N., M.N. *Memorial*

Librarian

Gallant, B., B.A. *Memorial, M.L.I.S. Western Ontario*

Guidance Counsellor

Barber, J., B.Sc., B.Ed. *Memorial, M.Ed. Ottawa*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 School Description

The origin of Memorial University of Newfoundland School of Nursing dates back to August 1963 when the Association of Registered Nurses of Newfoundland submitted a brief to the University calling for the establishment of a baccalaureate program in nursing. In September 1966, the first students were admitted to the undergraduate degree program. Over its 42 year history, the School has remained responsive to the changing needs of nursing within the province and in Canada and consequently has developed and changed over time.

The educational, research and scholarly activities of the School and its faculty draw upon knowledge from the arts and sciences and from nursing and other health professions. The School and its faculty are also involved in many community outreach and professional service activities. While being responsive to national and international needs, the School acknowledges its primary responsibility to the people of Newfoundland and Labrador.

The School offers undergraduate degree programs on campus to prepare entry-level nurses for practice, and by distance for registered nurses with a diploma in nursing. A graduate degree, the Master of Nursing, is offered by the School of Graduate Studies.

Students must meet all regulations of the School in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

Further information regarding the School of Nursing is available at www.mun.ca/nursing/about_us/.

2.1 Vision Statement

The School of Nursing provides innovative leaders in nursing education and research provincially, nationally and internationally by developing quality learning and scholarship environments. Graduates of the School of Nursing will be prepared to embrace the challenges of providing health care and will be responsive to human diversity while improving health for all.

2.2 Mission Statement

The School of Nursing's mission provides leadership and advances knowledge in nursing education, practice and research with the goal of promoting health and well-being.

2.3 Accreditation Status and Approval Status

2.3.1 Accreditation Status

The School of Nursing's Bachelor of Nursing (Collaborative) and the Bachelor of Nursing (Post-RN) programs are accredited to 2015 by the Canadian Association of Schools of Nursing (CASN). This seven year award is the highest award given to Schools of Nursing in Canada.

2.3.2 Approval Status

The School of Nursing's Bachelor of Nursing (Collaborative) and the Bachelor of Nursing (Post-RN) programs are approved to 2015 by the Association of Registered Nurses of Newfoundland and Labrador (ARNNL). The ARNNL approval designation assures both the public and our students that these programs prepare ethical entry-level practitioners who provide safe quality health care. These program graduates meet the requirements for licensure and professional practice as registered nurses in Newfoundland and Labrador.

3 Description of Programs

All courses of the School are designated by the abbreviation NURS.

3.1 General

The School of Nursing offers an undergraduate program leading to a Bachelor of Nursing to prepare entry-level nurses. To meet the licensing requirements for practising nursing in Canada, students must write the Canadian Registered Nurse Exam (CRNE). To be eligible to write the CRNE, candidates must graduate from an approved program offered by a School of Nursing and be recommended by the School of Nursing. In order to be recommended for the CRNE, a student must complete a comprehensive examination set by the Bachelor of Nursing (Collaborative) Program. All costs associated with these exams are the responsibility of the student.

The School of Nursing also offers an undergraduate program leading to a Bachelor of Nursing for nurses with a diploma in nursing. Students in the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option program must meet the licensing requirements for practising as a Nurse Practitioner in Newfoundland and Labrador by writing the Canadian Nurse Practitioner Family/All Ages Examination. To be eligible to write the examination, candidates must graduate from an approved School of Nursing and be recommended by the School of Nursing. In order to be recommended for the Nurse Practitioner licensure examination students must complete a comprehensive examination set by the School of Nursing. All costs associated with these exams are the responsibility of the student.

3.1.1 Bachelor of Nursing (Collaborative) Program

This four year program is designed to prepare competent entry-level nurses who will function within a variety of health care settings. The graduate is prepared to assume the roles of direct care giver, educator, counsellor, advocate, facilitator, co-ordinator of care, researcher, leader, and member of the nursing profession. This full-time program is comprised of 130 credit hours. Please note, the last semester of the fourth year extends beyond the normal University semester end date.

The School of Nursing depends on the cooperation and involvement of a large number of organizations and professional personnel in providing quality clinical placements and instruction to its students. These agencies often have a range of requirements, some of which include, a Certificate of Conduct, a Child Protection Record Check, immunizations, a First Aid Certificate, and a CPR certificate. Students unable to meet these agency requirements may be delayed in their program or prevented from completing their program of studies. All students are required to complete these requirements in a timely fashion and at their own expense. Many of these requirements must be updated annually. In order to satisfy clinical practice requirements for the Bachelor of Nursing (Collaborative) program, clinical agencies may be used 24 hours a day, seven days a week. Students may be required to attend during any of these times.

This program is offered at Memorial University of Newfoundland School of Nursing, the Centre for Nursing Studies, and the Western Regional School of Nursing. Information regarding the Centre for Nursing Studies is available at www.cns.nf.ca/, and information regarding the Western Regional School of Nursing is available at www.swgc.mun.ca/nursing.

3.1.2 Bachelor of Nursing (Collaborative) Fast-Track Option

The Fast-Track Option is also designed to prepare competent entry-level nurses, however it is geared to students with well-developed university-level study skills. This full-time Option is for current degree holders or those with advanced standing and is comprised of 94 credit hours. This Option is taken over six consecutive semesters, i.e. two calendar years. Please note, the last semester of the second year ends later than the scheduled date on which the semester ends.

The School of Nursing depends on the cooperation and involvement of a large number of organizations and professional personnel in providing quality clinical placements and instruction to its students. These agencies often have a range of requirements, some of which include, a Certificate of Conduct, a Child Protection Record Check, immunizations, a First Aid Certificate and a CPR certificate. Students unable to meet these agency requirements may be delayed in their program or prevented from completing their program of studies. All students are required to complete these requirements in a timely fashion and at their own expense. Many of these requirements must be updated annually.

This Option is offered at Memorial University of Newfoundland School of Nursing and Western Regional School of Nursing. Information regarding the Western Regional School of Nursing is available at www.swgc.mun.ca/nursing.

3.1.3 Bachelor of Nursing (Collaborative) LPN Bridging Option

This Option provides a career ladder for Licensed Practical Nurses (LPN's). This Option offers students a combination of 25 unspecified transfer nursing credit hours for the successful completion of a nursing bridging course taken during the Bridging Semester and the recognition of prior nursing knowledge and clinical experience obtained through previous LPN education and work experiences. The Nursing Bridging course will prepare students to enter the second year of the degree program, thereby decreasing the length of the program and its inherent costs.

The School of Nursing depends on the cooperation and involvement of a large number of organizations and professional personnel in providing quality clinical placements and instruction to its students. These agencies often have a range of requirements, some of which include, a Certificate of Conduct, a Child Protection Record Check, immunizations, a First Aid Certificate, and a CPR certificate. Students unable to meet these agency requirements, may be delayed in their program or prevented from completing their program of studies. All students are required to complete these requirements in a timely fashion and at their own expense. Many of these requirements must be updated annually. In order to satisfy clinical practice requirements for the Bachelor of Nursing (Collaborative) program, clinical agencies may be used 24 hours a day, seven days a week. Students may be required to attend during any of these times.

This program is offered at the Centre for Nursing Studies. Information regarding the Centre for Nursing Studies is available at www.cns.nf.ca/.

3.1.4 Bachelor of Nursing (Post-RN) Program

This program is designed to build on the knowledge and competencies that registered nurses acquire in their diploma program. The program content and learning activities are intended to broaden students' theoretical base within the context of health promotion and to provide opportunities for students to enhance skills such as critical thinking and research application. The program is offered entirely by distance education. The program is designed for the convenience of registered nurses who wish to continue their education but cannot attend a university campus. The full-time or part-time program is comprised of 108 credit hours.

3.1.5 Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

This Option is a time-limited transitional offering consisting of six semesters full time or eleven semesters part-time. This Option is primarily through distance delivery but there is a residency requirement in each semester. The full or part-time Option is comprised of 111 credit hours. Maximum enrolment is sixteen per full-time and part time options.

4 Admission/Readmission Regulations for the School of Nursing

Applicants requiring additional information may e-mail nursingadmissions@mun.ca.

In addition to meeting the **UNIVERSITY REGULATIONS** students must meet the admission/readmission regulations for the School of Nursing.

4.1 General Information

- Entry to the Bachelor of Nursing (Collaborative) four year and Fast-Track Option, the LPN Bridging Option, and to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option are competitive for a limited number of placements. Meeting the minimum requirements for admission does not guarantee acceptance into the selected program. The final decision on admission rests with the relevant Admissions Committee of the School.
- Admission or readmission to the University does not necessarily constitute admission or readmission to any program.
- Selection of candidates for Bachelor of Nursing (Collaborative) four year and Fast-Track two year Option, and to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option is based on academic performance, relevant work and volunteer experience, references and personal statements.
- Admission to the Bachelor of Nursing (Collaborative) Fast-Track Option is competitive for a limited number of places. Selection of candidates is based on:
 - a minimum grade point average of 3.0 on a 4 point scale in their degree program for applicants who have completed a bachelor degree;
 - a minimum overall grade point average of 3.0 on a 4 point scale in the twelve courses, 36 credit hours required for admission for applicants for advanced standing;
 - evidence of ability to successfully maintain a full course load; and
 - other criteria considered suitable for professional practice in nursing.
- Admission to the Bachelor of Nursing (Collaborative) LPN Bridging Option is on the basis of competition for a limited number of seats. Selection of candidates will be based on:
 - academic performance in the practical nursing program and in any university courses taken to date;
 - evidence of ability to successfully maintain a full course load; and
 - other criteria considered suitable for professional practice in nursing.

Admission to the program is denied to any student if, in the judgment of the Joint Admissions Committee, s/he is deemed unsuitable for admission.

Applicants must provide two letters of reference (one reference regarding academic performance and one from a current employer regarding clinical performance)
- For all programs, other than the Bachelor of Nursing (Post-RN), priority is given to applicants who are residents of Newfoundland and Labrador.
- In addition to the regular quota positions, up to three additional positions per year are available in the Bachelor of Nursing (Collaborative) four year Option program for applicants of aboriginal ancestry who have met the admission requirements. Applicants must send a letter of request at the time of application and provide documentation of aboriginal ancestry.
- Applicants are required to submit a health assessment and a complete record of current immunizations at the beginning of all programs except for the Bachelor of Nursing (Post-RN) when they must be submitted prior to commencing any Nursing course with a clinical component.
- Bachelor of Nursing (Collaborative) Fast-Track, Bachelor of Nursing (Collaborative) LPN Bridging Option, and Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care applicants may be requested to attend an interview.
- Evidence of certification in Standard First Aid and Basic Life Support (CPR) level HCP, offered by The Canadian Red Cross or St. John Ambulance is required by applicants to all programs except the Bachelor of Nursing (Post-RN). Certification obtained from other organizations will be accepted if deemed equivalent by the School of Nursing.

4.2 Application Forms and Deadlines

- All programs and their options, other than the Bachelor of Nursing (Post-RN) program, commence in the Fall semester. The deadline for application to the Bachelor of Nursing (Collaborative) Program, four year and Fast-Track two year Option and Bachelor of Nursing (Collaborative) LPN Bridging Option is March 1st. The Bachelor of Nursing (Post-RN) Option applications for admission are accepted on an ongoing basis.
- Students applying for admission to Bachelor of Nursing degree programs must submit the appropriate supplementary Undergraduate Application for Admission/ Readmission to the University and supporting documents as specified on the application. The applications for admission to the four year and Fast Track Options of the Bachelor of Nursing (Collaborative) and to the Bachelor of Nursing (Post RN) degree are available online through the University's Online General Undergraduate Application for Admission/Readmission which can be found at www.mun.ca/become. The Bachelor of Nursing (Collaborative) LPN Bridging Option application for admission is available at www.mun.ca/nursing/undergrad. The Bachelor of Nursing (Post-RN) program application for admission is available at www.mun.ca/nursing/undergrad/post_rn/forms.php. Application forms and other information may also be obtained by contacting the University in writing to the Admissions Office, Office of the Registrar, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by e-mail at admissions@mun.ca or through the website at www.mun.ca/regoff/home/.

4.3 Admission Requirements to School Programs

These regulations apply to the Bachelor of Nursing (Collaborative) program 4 year Option, Fast-Track 2 year Option and LPN Bridging Option.

Applicants may apply for admission to School programs under the **Categories Of Applicants, Admission Criteria and Other Information** outlined under **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)**. In addition to meeting these regulations, applicants in the following categories, must meet the additional requirements as indicated below.

4.3.1 High School Applicants

Applicants from High School may apply for admission only to the Bachelor of Nursing (Collaborative) four year program.

- High School applicants to the Bachelor of Nursing (Collaborative) program must have completed a high school diploma, or its

equivalent, as certified by the Department of Education of Newfoundland and Labrador. High School Advanced Math is preferred and science courses must include:

- Biology 2201 and 3201 or their equivalents
- Chemistry 3202 or equivalent

4.3.2 Memorial University of Newfoundland Applicants

Memorial University of Newfoundland applicants may apply for admission to the Bachelor of Nursing (Collaborative) program four year Option, the Fast-Track two year Option, and the LPN Bridging Option.

1. Bachelor of Nursing (Collaborative) four year Option applicants must have a high school diploma, or its equivalent, as certified by the Department of Education of Newfoundland and Labrador. High School Math is preferred and science courses must include:
 - Biology 2201 and 3201 or their equivalents
 - Chemistry 3202 or equivalent
2. Bachelor of Nursing (Collaborative) Fast-Track two year Option applicants must have successfully completed an undergraduate degree from a recognized university and the following courses prior to admission:
 - Statistics 2500 or equivalent, or Education 2900
 - Biochemistry 1430 or equivalent
 - Biology 3053 or equivalent

or qualify for advanced standing. An applicant who has successfully completed all the non-nursing course requirements of the Bachelor of Nursing (Collaborative) program, and who is in good standing, may qualify for advanced standing. Applicants must demonstrate successful completion of the following 12 courses, 36 credit hours prior to admission:

- 6 courses, 18 credit hours as follows: 6 credit hours from English, Biochemistry 1430 or equivalent, Biology 3053 or equivalent, Psychology 1000 or equivalent, Statistics 2500 or equivalent or Education 2900;
- 4 courses, 12 credit hours as follows: 3 credit hours from each of the following: Business, Philosophy 2500-2599 or Religious Studies 2610, Political Science, and Sociology, Anthropology, or Archaeology; and
- 2 courses, 6 additional elective credit hours selected from any credit courses offered by this University.

4.3.3 LPN Bridging Applicants

Applicants with a Licensed Practical Nurse designation may apply for admission to the Bachelor of Nursing (Collaborative) LPN Bridging Option.

1. To be considered for admission to the Bachelor of Nursing (Collaborative) LPN Bridging Option applicants must:
 - be a graduate (2002 or later) of an approved Practical Nursing Program, Province of Newfoundland and Labrador;
 - be a Licensed Practical Nurse (copy of certification required);
 - meet the admission requirements for the Bachelor of Nursing (Collaborative) Program listed under **Admission/Readmission Regulations for the School of Nursing**; and
 - have completed the following high school courses: Biology 2201 and 3201 or their equivalents and Chemistry 3202 or equivalent.
2. Admission into the second year of the Bachelor of Nursing (Collaborative) program will be conditional and based on successful completion of the Bridging Semester, which includes the following:
 - Biochemistry 1430 (Fall and Spring Offerings)
 - Psychology 1000
 - English (3 credit hours)
 - A score of 50% on a Mathematics Placement Test or Mathematics 102FN or 3 credit hours in Mathematics.

4.3.4 Registered Nurse Designation Applicants

Applicants with a Registered Nurse designation may apply for admission to the Bachelor of Nursing (Post-RN) Distance Option or the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option.

1. Bachelor of Nursing (Post-RN) Distance Option program applicants are accepted on an ongoing basis and must provide:
 - proof of practising Registered Nurse (RN) license. For the purposes of admission a RN is a Nurse who is currently registered in Newfoundland and Labrador or eligible to register in Newfoundland and Labrador, or is currently registered or eligible for registration in the province/country in which the applicant resides. Applicants must have a current, practising licence in the jurisdiction in which they plan to complete courses with a clinical component; and
 - one letter of reference from a current supervisor of nursing position.
2. Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option applicants must provide:
 - proof of practising Registered Nurse (RN) license. For the purposes of admission a RN is a Nurse who is currently registered in Newfoundland and Labrador or eligible to register in Newfoundland and Labrador, or is currently registered or eligible for registration in the province/country in which the applicant resides. Applicants must have a current, practising licence in the jurisdiction in which they plan to complete courses with a clinical component; and
 - a complete application package which includes:
 - an application to the University for those who have not attended Memorial University of Newfoundland in the two preceding semesters;
 - an application to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option that includes a personal statement and description of relevant work experiences;
 - proof of current practicing RN license;
 - two letters of reference, one of which must be from the current nursing supervisor or employer;
 - evidence of two years of recent acute care nursing experience;
 - completed health assessment;
 - completed record of current immunization as outlined on the appropriate School of Nursing form; and

- a letter from a primary health care physician or a primary health care nurse practitioner and a health care agency guaranteeing the applicant a preceptored clinical placement throughout the program.

4.3.5 Transfer Applicants

Transfer applicants may apply for admission to any of the School of Nursing programs.

1. Bachelor of Nursing (Collaborative) four year Option applicants must have a high school diploma, or its equivalent, as certified by the Department of Education of Newfoundland and Labrador. High School Math is preferred and science courses must include:
 - Biology 2201 and 3201 or their equivalents
 - Chemistry 3202 or equivalent
2. Bachelor of Nursing (Collaborative) Program Fast-Track Option applicants must have successfully completed an undergraduate degree from a recognized university and the following courses prior to admission:
 - Statistics 2500 or equivalent, or Education 2900
 - Biochemistry 1430 or equivalent
 - Biology 3053 or equivalent

or qualify for advanced standing. An applicant who has successfully completed all the non-nursing course requirements of the Bachelor of Nursing (Collaborative) program, and who is in good standing, may qualify for advanced standing. Applicants must demonstrate successful completion of the following 12 courses, 36 credit hours prior to admission:

- 6 courses, 18 credit hours as follows: 6 credit hours from English, Biochemistry 1430 or equivalent, Biology 3053 or equivalent, Psychology 1000 or equivalent, Statistics 2500 or equivalent or Education 2900;
 - 4 courses, 12 credit hours as follows: 3 credit hours from each of the following: Business, Philosophy 2500-2599 or Religious Studies 2610, Political Science, and Sociology, Anthropology, or Archaeology; and
 - 2 courses, 6 additional elective credit hours selected from any credit courses offered by this University.
3. Bachelor of Nursing (Post-RN) program applicants must provide:
 - proof of practising Registered Nurse (RN) license. For the purposes of admission a RN is a Nurse who is currently registered in Newfoundland and Labrador or eligible to register in Newfoundland and Labrador, or is currently registered or eligible for registration in the province/country in which the applicant resides; and
 - one letter of reference from a current supervisor of nursing position.
 4. Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option applicants must provide:
 - proof of practising Registered Nurse (RN) license. For the purposes of admission a RN is a Nurse who is currently registered in Newfoundland and Labrador or eligible to register in Newfoundland and Labrador, or is currently registered or eligible for registration in the province/country in which the applicant resides. Applicants must have a current, practising licence in the jurisdiction in which they plan to complete courses with a clinical component.
 - a complete application package which includes:
 - an application to the University for those who have not attended Memorial University of Newfoundland in the two preceding semesters;
 - an application to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option that includes a personal statement and description of relevant work experiences;
 - proof of current practicing RN license;
 - two letters of reference, one of which must be from the current nursing supervisor or employer;
 - evidence of two years of recent acute care nursing experience;
 - completed health assessment;
 - completed record of current immunization as outlined on the appropriate School of Nursing form; and
 - a letter from a primary health care physician or a primary health care nurse practitioner and a health care agency guaranteeing the applicant a preceptored clinical placement throughout the program.

4.4 Other Information

1. Applicants seeking clinical placements outside of Canada must satisfy the clinical agency's immunization requirements submitting documentation of its requirements to that agency at least one month in advance of the start of the semester in which the course will be taken.
2. Applicants seeking clinical placements within Canada must satisfy the School of Nursing immunization requirements outlined on the School of Nursing Immunization Requirements form. This documentation must be submitted to the Office of the Registrar in advance of the start of registration for the semester in which the course will be taken.

5 Program Regulations - General Degrees

5.1 Bachelor of Nursing (Collaborative) Program

1. The four year, 130 credit hour Bachelor of Nursing (Collaborative) program requires 94 NURS credit hours and 36 non-NURS credit hours.
2. The 130 credit hours are recommended to be taken in the academic terms in the sequence as set out in **Table 1, 2, or 3 Bachelor of Nursing (Collaborative) Program**. These courses will be offered during the same year at all sites, but the semester of course offering may vary with each site.
3. Clinical course hours may occur at any time during the semester. Clinical courses may be offered in whole or in part outside the normal start and end dates of a semester.
4. Selected nursing courses which are designed for the Bachelor of Nursing (Post-RN) program may be used as electives in the Bachelor of Nursing (Collaborative) program with permission of the Committee on Undergraduate Studies and the course instructor.

Table 1 Bachelor of Nursing (Collaborative) Program - Memorial University of Newfoundland School of Nursing (MUNSON)

Term	Required Courses	Elective Courses
Fall Academic Term 1	Biochemistry 1430 3 credit hours in English NURS 1002 NURS 1003 NURS 1004	6 credit hours in total chosen from any academic unit must be completed in any Academic Term or during a Spring semester.
Winter Academic Term 2	NURS 1012 NURS 1014 NURS 1015 NURS 1016 NURS 1017 NURS 1520 Psychology 1000	
Fall Academic Term 3	NURS 2003 NURS 2004 NURS 2014 NURS 2514 Statistics 1510 or 2500 or equivalent, or Education 2900	
Winter Academic Term 4	Biology 3053 3 credit hours in English NURS 2002 NURS 2017 NURS 2502 NURS 2520 3 credit hours in any one of Anthropology Archaeology, or Sociology	
Fall Academic Term 5	NURS 3012 NURS 3014 NURS 3104 NURS 3512 NURS 3514	
Winter Academic Term 6	3 credit hours in Business NURS 3001 NURS 3113 NURS 3501 3 credit hours chosen from Philosophy 2500-2599 or Religious Studies 2610	
Spring Academic Term 7	NURS 3523	
Fall Academic Term 8	NURS 4103 NURS 4501 NURS 4515 3 credit hours in Political Science	
Winter Academic Term 9	NURS 4512 NURS 4516	

Table 2 Bachelor of Nursing (Collaborative) Program - Centre For Nursing Studies (CNS)

Term	Required Courses	Elective Courses
Fall Academic Term 1	Biochemistry 1430 3 credit hours in English NURS 1002 NURS 1003 NURS 1004	6 credit hours in total chosen from any academic unit must be completed in any Academic Term or during a Spring semester.
Winter Academic Term 2	NURS 1012 NURS 1014 NURS 1015 NURS 1016 NURS 1017 NURS 1520 Psychology 1000	
Fall Academic Term 3	3 credit hours in English NURS 2002 NURS 2003 NURS 2004 NURS 2502	
Winter Academic Term 4	Biology 3053 NURS 2014 NURS 2017 NURS 2514 NURS 2520 3 credit hours in any one of Sociology or Anthropology or Archaeology Statistics 1510 or 2500 or equivalent, or Education 2900	
Fall Academic Term 5	3 credit hours in Business NURS 3001 NURS 3012 NURS 3104 NURS 3501 3 credit hours chosen from Philosophy 2500-2599 or Religious Studies 2610	
Winter Academic Term 6	NURS 3014 NURS 3113 NURS 3512 NURS 3514	
Spring Academic Term 7	NURS 3523	
Fall Academic Term 8	NURS 4103 NURS 4501 NURS 4515 3 credit hours in Political Science	
Winter Academic Term 9	NURS 4512 NURS 4516	

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 Current University Calendar available at:
<https://www.mun.ca/university-calendar>

Table 3 Bachelor of Nursing (Collaborative) Program - Western Regional School of Nursing (WRSON)

Term	Required Courses	Elective Courses
Fall Academic Term 1	3 credit hours in English NURS 1002 NURS 1003 NURS 1004 NURS 1017 Psychology 1000	6 credit hours in total chosen from any academic unit must be completed in any Academic Term or during a Spring semester.
Winter Academic Term 2	Biochemistry 1430 NURS 1012 NURS 1014 NURS 1015 NURS 1016 NURS 1520	
Fall Academic Term 3	3 credit hours in English NURS 2002 NURS 2003 NURS 2004 NURS 2502	
Winter Academic Term 4	Biology 3053 NURS 2014 NURS 2017 NURS 2514 NURS 2520 3 credit hours in any one of Sociology or Anthropology or Archaeology Statistics 1510 or 2500 or equivalent, or Education 2900	
Fall Academic Term 5	3 credit hours in Business NURS 3001 NURS 3104 NURS 3501 3 credit hours chosen from Philosophy 2500-2599 or Religious Studies 2610	
Winter Academic Term 6	NURS 3012 NURS 3014 NURS 3113 NURS 3512 NURS 3514 NURS 3523	
Fall Academic Term 7	NURS 4103 NURS 4501 NURS 4515 3 credit hours in Political Science	
Winter Academic Term 8	NURS 4512 NURS 4516	

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 Current University Calendar available at:
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5.2 Bachelor of Nursing (Collaborative) Fast-Track Option

1. The Bachelor of Nursing (Collaborative) Fast-Track Option is offered at Memorial University of Newfoundland School of Nursing and the Western Regional School of Nursing.
2. The 94 credit hours may be taken in the academic terms as set out in **Table 4 Bachelor of Nursing (Collaborative) Fast-Track Option**. Nursing 2002 and 2502 run over the first six weeks and Nursing 3012 and 3512 run over the second six weeks. Nursing 2514 and 3514 run consecutively for 6 weeks each.
3. Clinical Courses may be offered in whole or in part outside the normal start and end dates of a semester. In the last semester of the Fast Track Option, the last clinical course will finish outside of the end date of Summer semester and may finish as late as the 3rd week in September. Students will be informed of the pertinent dates of clinical courses two semesters in advance.

Table 4 Bachelor of Nursing (Collaborative) Fast-Track Option

Term	Required Courses
Fall Academic Term 1	NURS 1002 NURS 1003 NURS 1004 NURS 1015 NURS 1016 NURS 1017
Winter Academic Term 2	NURS 1012 NURS 1014 NURS 1520 NURS 2003 NURS 2004
Spring Academic Term 3	NURS 2002 NURS 2502 NURS 2520 NURS 3012 NURS 3512
Fall Academic Term 4	NURS 2514 NURS 3014 NURS 3104 NURS 3514 NURS 4101 NURS 4103
Winter Academic Term 5	NURS 3001 NURS 3113 NURS 4502 NURS 4512 NURS 4515
Spring Academic Term 6	NURS 3523 NURS 4516

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 Current University Calendar available at:
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5.3 Bachelor of Nursing (Collaborative) LPN Bridging Option

1. The Bachelor of Nursing (Collaborative) LPN Bridging Option is only offered at the Centre for Nursing Studies.
2. The three year and one semester 130 credit hour Bachelor of Nursing (Collaborative) LPN Bridging Option requires 69 NURS credit hours, one Bridging semester and 36 non-NURS credit hours.
3. The 130 credit hours are recommended to be taken in the academic terms in the sequence as set out in **Table 1, 2, or 3 Bachelor of Nursing (Collaborative) LPN Bridging Option**.
4. Selected nursing courses which are designed for the Bachelor of Nursing (Post-RN) program may be used as electives in the Bachelor of Nursing (Collaborative) program with permission of the Committee on Undergraduate Studies and the course instructor.
5. The Nursing Bridging Course is offered at the Centre for Nursing Studies prior to entering the second year of the Bachelor of Nursing (Collaborative) Program. The remaining courses are those regularly scheduled in the Bachelor of Nursing (Collaborative) Program.

Table 5 Bachelor of Nursing (Collaborative) Program LPN Bridging Option

Term	Required Courses	Elective Courses
Spring Academic Term 1	Bridging Course Biochemistry 1430 3 credit hours in English Psychology 1000 Mathematics Placement Test or Mathematics 102N or 3 credits in Mathematics	6 credit hours in total chosen from any academic unit must be completed in any Academic Term or during a Spring semester.
Fall Academic Term 2	3 credit hours in English NURS 2002 NURS 2003 NURS 2004 NURS 2502	
Winter Academic Term 3	Biology 3053 NURS 2014 NURS 2514 NURS 2520 3 credit hours in any one of Sociology or Anthropology or Archaeology Statistics 2500 or equivalent, or Education 2900	
Fall Academic Term 4	3 credit hours in Business NURS 3001 NURS 3012 NURS 3104 NURS 3501 3 credit hours chosen from Philosophy 2500-2599 or Religious Studies 2610	
Winter Academic Term 5	NURS 3014 NURS 3113 NURS 3512 NURS 3514	
Spring Academic Term 6	NURS 3523	
Fall Academic Term 7	NURS 4103 NURS 4501 NURS 4515 3 credit hours in Political Science	
Winter Academic Term 8	NURS 4512 NURS 4516	

Archived Previous Calendar available at:
<https://www.mun.ca/university-calendar>

5.4 Bachelor of Nursing (Post-RN) Program

1. The 108 credit hour Bachelor of Nursing (Post-RN) program requires 42 credit hours in NURS, 21 non-NURS credit hours, and 45 unspecified transfer NURS credit hours awarded on the basis of successful completion of a diploma program in Nursing.
2. The Committee on Undergraduate Studies, School of Nursing, may recommend that a maximum of 6 transfer credits be awarded for certain post basic nursing courses/programs or for current Canadian Nurses Association certification.
3. Students are required to have a current, practising licence in the jurisdiction in which they plan to complete courses with a clinical component.

Table 6 Bachelor of Nursing (Post-RN) Program

Required Courses	Elective Courses
3 credit hours in English Nursing 2040 Nursing 2230 Nursing 2700 Nursing 2740 Nursing 3023 Nursing 4002 Nursing 4010 Nursing 4310 Nursing 4701 Nursing 4702 Nursing 4754 Nursing 5210 Nursing 5220 Nursing 5700 3 credit hours chosen from Philosophy 2500-2599, or Religious Studies 2610 3 credit hours chosen from Statistics 2500 (or equivalent), or Education 2900	12 credit hours of which 6 should be at the 2000 level or above

5.5 Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

1. The 111 credit hour Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option requires 57 NURS credit hours, 45 unspecified transfer credits in NURS, and 9 non-NURS credit hours.
2. The 111 credit hours shall be taken in the academic terms in the sequence as set out in **Table 7 Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option Two Year Plan (Full-Time)** or **Table 8, Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option Four Year Plan (Part-Time)**.
3. Nurse Practitioner courses may be offered in whole or in part outside the normal start and end dates of a semester.
4. 9 elective credit hours comprised of 3 credit hours in English, Statistics 2500 or equivalent of Education 2900 and 3 credit hours from Philosophy 2500-2599 or Religious Studies 2610 are recommended to be completed prior to required courses in both full-time and part-time options as indicated in **Table 7 Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option Two Year Plan (Full-Time)** and **Table 8, Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option Four Year Plan (Part-Time)**.

Table 7 Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option Two Year Plan (Full-Time)

Term	Required Courses	Elective Courses
Fall Academic Term 1	NURS 2700 NURS 2740 NURS 3070 NURS 3380	3 credit hours in English which is recommended to be completed prior to required courses
Winter Academic Term 2	NURS 3023 NURS 3410 NURS 4002 NURS 4701	Statistics 2500 or equivalent of Education 2900 which is recommended to be completed prior to required courses
Spring Academic Term 3	NURS 2230 NURS 4010 NURS 5700	3 credit hours from Philosophy 2500-2599 or Religious Studies 2610 which is recommended to be completed prior to required courses
Fall Academic Term 4	NURS 3430 NURS 4310 NURS 4370	
Winter Academic Term 5	NURS 5360 NURS 5600	
Spring Academic Term 6	NURS 5370	

Table 8 Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option (Part-Time)

Term	Required Courses	Elective Courses
Fall Academic Term 1	NURS 2700	3 credit hours in English which is recommended to be completed prior to required courses
Winter Academic Term 2	NURS 3023	Statistics 2500 or equivalent or Education 2900 which is recommended to be completed prior to required courses
Spring Academic Term 3	NURS 2230	3 credit hours from Philosophy 2500-2599 or Religious Studies 2610 which is recommended to be completed prior to required courses
Fall Academic Term 4	NURS 2740	
Winter Academic Term 5	NURS 4002 NURS 4701	
Spring Academic Term 6	NURS 4010	
Fall Academic Term 7	NURS 3430 NURS 4310	
Winter Academic Term 8	NURS 3070 NURS 3380 NURS 3410	
Spring Academic Term 9	NURS 4370 NURS 5700	
Fall Academic Term 10	NURS 5360 NURS 5600	
Winter Academic Term 11	NURS 5370	

6 Promotion Regulations

These regulations apply to all programs except as noted below.

1. The Memorial University of Newfoundland School of Nursing constitutes the examining body for all School of Nursing examinations. The standing of every student will be assessed at the end of each academic semester by the Committee on Undergraduate Studies, and a grade report will be issued by the University Registrar to the individual student.
2. Students are required to achieve a grade of at least 65% or a grade of PAS as appropriate in each of the required nursing courses.
3. Except in the Bachelor of Nursing Fast-Track Option, students failing to achieve the requirements outlined above are permitted to repeat the given nursing course only once. A second failure in a given nursing course will result in withdrawal from the program. A student in the Fast-Track Option who fails a course is required to withdraw from the Fast-Track Option. In the Bachelor of Nursing (Collaborative) Program Fast-Track Option students may be permitted, with special permission from the Directors, to resume studies within the regular stream of the Bachelor of Nursing (Collaborative) Program and are subject to all its academic standards. Accordingly, invoking this clause carries over to the Bachelor of Nursing (Collaborative) Program as a first failure in the relevant course(s).
4. Failure in excess of two nursing courses during the program will result in withdrawal from the Bachelor of Nursing (Collaborative) four year program, the Bachelor of Nursing (Collaborative) LPN Bridging Option, the Bachelor of Nursing (Post-RN), or the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option.
5. Students who are required to withdraw from the Bachelor of Nursing (Collaborative) four year program, the Bachelor of Nursing (Collaborative) LPN Bridging Option, or the Bachelor of Nursing (Post-RN) program, as outlined above in the two preceding clauses, may appeal for readmission after a lapse of two semesters by writing to the Chair, Committee on Undergraduate Studies. Students who are required to withdraw from the program a second time will not be eligible for future admission/readmission to the program.
6. A student may be required to withdraw from a nursing course with a clinical component or from the program at any time, on the recommendation of the Committee on Undergraduate Studies, if the student is deemed unlikely to profit from continued attendance in the nursing course or program and/or is deemed unsafe in a clinical setting. Students who are required to withdraw from the program for any of these reasons will not be eligible for future admission/readmission to the program or the School of Nursing.
7. Students who fail to complete a nursing course in any program, other than the Bachelor of Nursing (Post-RN) program, for a period of three consecutive semesters will be considered to have withdrawn from the program. Students who have not completed a course in the Bachelor of Nursing (Post-RN) program within the last 6 consecutive semesters will be considered to have withdrawn from the program and must apply for re-admission. Students in the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option who fail to complete a nursing course will be considered to have withdrawn from the program and must apply for re-admission.
8. Students in the Bachelor of Nursing (Collaborative) Program, the Bachelor of Nursing (Collaborative) Program Fast-Track Option or the Bachelor of Nursing (Collaborative) LPN Bridging Option who wish to take a leave of absence from the program may do so only with the written permission of the Dean or delegate. A leave will be granted for a maximum period of three consecutive semesters. Students on leave who plan to resume their studies must notify the Dean in writing one semester prior to registration.
9. Students in the Bachelor of Nursing (Collaborative) Program and the Bachelor of Nursing (Collaborative) Program Fast-Track Option who voluntarily withdraw from the program prior to the conclusion of the first semester of the first year and who wish to return to the program must re-apply in competition as a new applicant.
10. Students in the Bachelor of Nursing (Collaborative) Program, the Bachelor of Nursing (Collaborative) Fast-Track Option, the Bachelor of Nursing (Collaborative) LPN Bridging Option or the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option who voluntarily withdraw from the program, at the conclusion of the first semester of the program, or later, and who wish

to return to the program, must appeal for readmission. The letter of appeal must be directed to the Chair, Committee on Undergraduate Studies.

- Students in the Bachelor of Nursing (Collaborative) Program four year and two year Bachelor of Nursing (Collaborative) Program Fast-Track Option who are readmitted to either option following a period of absence, either as a result of a leave of absence or a withdrawal from the program, may be required to do remedial work upon the recommendation of the Committee on Undergraduate Studies. Remedial work may include the repetition of classroom or clinical courses.

7 Waiver of School Regulations

Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

7.1 General Information

- The School reserves the right in special circumstances to modify, alter, or waive any School regulation in its application to individual students where merit and equity so warrant in the judgment of the Committee on Undergraduate Studies of the School.
- All requests must be submitted to the Committee on Undergraduate Studies of the School for consideration. A student requesting a waiver of a School regulation must submit the request in writing to the Chair of the Committee on Undergraduate Studies. Medical and/or other documentation to substantiate the request must be provided.
- Any waiver granted does not reduce the total number of credit hours required for the degree.

8 Supplementary Examinations

Any student receiving a grade of 60% in a Nursing course is eligible to write a supplementary examination in that course. Only three supplementary examinations in Nursing courses can be written during the program.

In addition to meeting **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**, upon successful completion of the supplementary examination, a student must also meet the promotion regulations of the School. For further information refer to **Promotion Regulations**.

- Supplementary examinations are permitted only in Nursing courses that have a written final examination.
- Supplementary examinations will have the same weight as final examinations for the course in determining whether the student achieves a passing grade for the course.
- Any student writing a supplementary examination can obtain only a maximum grade of 65% in the course.
- Supplementary examinations will be written no later than the first week of the semester immediately following the one in which the course was failed. Normally they should coincide with the writing of deferred examinations in courses where deferred examinations are granted for the semester in question. Grades for supplementary examinations must be received by the Office of the Registrar within one week following the completion of the examination.
- A student may write a supplementary examination for any one course only once.
- If it is mathematically impossible to achieve a passing grade in a course the student will not be granted a supplementary examination.
- Supplementary exams are not available for the Nursing Bridging Course offered at the Centre for Nursing Studies prior to entering the second year of the Bachelor of Nursing (Collaborative) Program. Students who are unsuccessful in the Bridging Course and who wish to enter the Bachelor of Nursing (Collaborative) Program must apply in competition to enter into the first year of the program.

9 Appeal of Regulations

- An applicant who has been denied admission has the right to appeal this decision of the Admissions Committee if it is felt by the applicant that the decision was reached on grounds other than those outlined under **Admission/Readmission Regulations for the School of Nursing**. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Chair, Memorial University of Newfoundland School of Nursing, Committee on Undergraduate Studies. The letter should state clearly and fully the grounds for the appeal.
- Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

10 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the School.

All courses of the School are designated by NURS.

1002 Anatomy and Physiology I presents a survey of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of nursing. Special emphasis is given to the skeletal, muscular, nervous and endocrine systems.

CR: Pharmacy 2002 or the former Pharmacy 3201
LH: 2

1003 Developing Therapeutic Relationships focuses on the application of caring theory to interpersonal communications. It emphasizes the development of the role of communicator in individual and group experiences and in professional relationships. Utilizing an experiential

model, laboratory experiences focus on self-awareness and group dynamics.

CO: NURS 1004
LH: 2

1004 Introduction to Nursing introduces the major concepts and theories related to the paradigm of person, health, society, nursing, environment, and nursing education in relation to the philosophy, conceptual framework and objectives of the program. Emphasis is placed on the concept of caring as the essence of nursing practice.

CR: the former NURS 1001

1012 Anatomy and Physiology II presents a survey of anatomy and physiology throughout the lifespan. It includes aspects of cytology, histology and embryology that form a foundation for the practice of nursing. Special emphasis is given to the circulatory, respiratory, urinary, digestive, and reproductive systems, including pregnancy and delivery.

CR: Pharmacy 2003 or the former Pharmacy 3202
LH: 2
PR: NURS 1002

1014 Health Assessment focuses on the development of competencies

needed to assess the health status of individuals throughout the lifespan using a systematic approach. Content includes the nurse's responsibilities for health history, physical examination, interpretation of findings, and documentation.

CO: NURS 1012
CR: NURS 2040
LH: 2

1015 Health Promotion throughout the Lifespan explores nursing concepts and theories pertaining to health promotion/protection throughout the lifespan. Content includes principles of teaching/learning, introduction to community health and primary health care concepts and the determinants of health.

CO: NURS 1004 or the former NURS 1001, NURS 1003 and Psychology 1000; or admission to the Fast-Track Option
CR: the former NURS 1011
OR: 24 clinical or lab hours during the semester
PR: NURS 1004 or the former NURS 1001, NURS 1003 and Psychology 1000; or admission to the Fast-Track Option

1016 Healthy Aging will explore, in-depth, concepts and issues applicable to the well older adult (65+). Selected theories, physical changes, and psychosocial, ethical, and legal issues associated with aging will be presented.

CO: NURS 1012, 1014, and 1015; or admission to the Fast-Track Option
PR: NURS 1002, 1003, and 1004; or admission to the Fast-Track Option

1017 Fundamental Psychomotor Competencies will provide the student an opportunity to acquire beginning psychomotor competencies that are related to the provision of client comfort and safety in a variety of settings. As well, this course provides the opportunity for the student to integrate the conceptual framework of the Bachelor of Nursing (Collaborative) program into the development of psychomotor competencies.

CH: 1
CO: NURS 1003 and 1004
LC: 0
LH: 2
PR: NURS 1003 and 1004

1520 Extended Practice I provides the student with the opportunity to integrate the knowledge and practise the competencies acquired to date. The focus is the promotion, protection and maintenance of health for individuals within the context of the family. This course is normally taught at the end of the winter semester, usually beginning during the final week of the examination period.

CO: NURS 1012, 1014, 1015 or the former 1011, 1016, and 1017
OR: 96 clinical hours over three weeks; or 96 clinical hours during the semester for Fast-Track Option students
PR: NURS 1012, 1014, 1015 or the former 1011, 1016, and 1017

2002 Nursing Concepts for the Care of Women and the Child-bearing Family covers major concepts in women's reproductive health. The two major foci are women and their families through all phases of childbirth and the neonatal period, and nursing care of women experiencing alterations in reproductive health.

CO: NURS 2003, 2004, and 2502
CR: the former NURS 2001
PR: NURS 1520, 2003, and 2004

2003 Pathophysiology presents general concepts of disease processes and their impact on health. The course focuses on major pathophysiologic changes, including associated etiology, pathogenesis and clinical manifestations. Common illnesses are studied to illustrate these disease processes.

CO: NURS 1012
OR: tutorial 1.5 hours per week
PR: NURS 1012, Biochemistry 1430 or admission to the Fast-Track Option

2004 Pharmacology and Nutritional Therapies explores principles and concepts of pharmacological, nutritional and complementary therapies and management of common health problems across the lifespan. Nursing considerations and psychomotor competencies pertinent to these therapies are addressed.

CO: NURS 1012 and NURS 1014
LH: 2
PR: NURS 1012, NURS 1014, NURS 1017, Biochemistry 1430, and a score of 50 on the Mathematics Placement Test or Math 102N or 3 credit hours in Mathematics excluding Statistics 2500.

2014 Community Health Nursing Theory focuses on the knowledge required to practise nursing in the community with a variety of clients including individuals, families, groups and communities. It further examines the principles of primary health care, population health, and their application in community health nursing. It also focuses on the multidimensional role of the nurse.

CO: NURS 2003 and 2004, 2514
CR: NURS 4101
OR: seminar or labs 2 hours per week
PR: NURS 1520, 2003, and 2004

2017 Intermediate Psychomotor Competencies will provide the student an opportunity to acquire intermediate psychomotor competencies that are related to the provision of client comfort and safety in a variety of settings. As well, this course provides the opportunity for the student to integrate the conceptual framework of the Bachelor of Nursing (Collaborative) program into the development of psychomotor competencies.

CH: 1
CO: NURS 2004
LC: 0
LH: 24 hours during the semester
PR: NURS 1520 and 2004

2040 Health Assessment focuses on the development of competencies needed to assess the health status of individuals. A systematic approach will be used for the collection and analysis of data related to the health status of the client. Interpretation of the health assessment findings and of the results of diagnostic tests will be discussed in the context of nurses' responsibilities.

CR: NURS 1014
PR: proof of current practising license as a Registered Nurse

2230 Teaching/Learning is designed to familiarize the student with theories, principles and methods of learning and teaching and to allow the student to apply them in client teaching situations.

PR: proof of current practising license as a Registered Nurse or admission to the Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option

2502 Nursing Practice for the Care of Women and the Child-bearing Family provides the student with opportunities to apply knowledge and practise competencies acquired in NURS 2002. Selected experiences are offered in a variety of institutional and community-based settings related to the provision of nursing care for women and their families.

CO: NURS 2002
CR: the former NURS 2501
LH: 24 during the semester
OR: 80 clinical hours during the semester

2514 Community Health Nursing Practice I provides the student with the opportunity to apply knowledge and practise competencies for beginning community health nursing practice acquired in Community Health Nursing Theory.

CO: NURS 2014 or NURS 4101
OR: 96 clinical hours during the semester
PR: NURS 1520

2520 Extended Practice II provides the student with the opportunity to integrate the knowledge and practise the competencies acquired to date. The focus is on caring for adults in stable health situations and on the application of community health concepts. This course is normally taught at the end of the Winter Semester, usually beginning during the final week of the examination period.

CO: NURS 2002 and 2502 or 2014 and 2514
OR: 96 clinical hours over three weeks
PR: NURS 2002, 2014, 2017, 2502, and 2514; or admission to the Fast-Track Option

2700 Nursing Theories in Practice is designed to introduce the students to the key concepts, conceptual models and selected theories of nursing. This is a required course for the Bachelor of Nursing (Post-RN) program and may be used as an elective in the Bachelor of Nursing (Collaborative) program.

PR: proof of current practising license as a Registered Nurse or admission to the Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option

2740 Current Concepts in Human Physiology is a comprehensive review of the physiology of the cell and major body systems. It assumes a basic understanding of physiology and provides the basis for concepts developed in NURS 4701 and NURS 4702.

PR: proof of current practising license as a Registered Nurse or admission to the Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option

2990 Spiritual Dimension of Nursing Practice will focus on the spiritual dimension of nursing practice. Students will explore their own personal spiritual philosophy and development. Key concepts of the spiritual dimension of nursing will be examined, such as spiritual well being, spiritual needs, spiritual distress and spiritual care. Distinction will be made between religion and expressions of spirituality.

PR: NURS 1004 or the former NURS 1001, and 1014 or be a Registered Nurse

2991 Complementary and Alternative Health Care provides an overview of the philosophy and practice of complementary and alternative health care (CAHC). It introduces students to key terminology and theoretical perspectives foundational to selected CAHC modalities. Using a holistic approach and research principles, they will examine some commonly used CAHC approaches. They will also explore situations where integrative health care incorporates biomedical, complementary and alternative modalities.

3001 Nursing Concepts for Mental Health focuses on individuals, families

and small groups experiencing psychiatric/mental health problems across the lifespan. The meaning of mental health and illness to the individual, family and vulnerable populations is explored. Course content includes counselling, psychopathology, interdisciplinary psychiatric care, community mental health concepts and analysis of sociopolitical factors/issues affecting mental health.

CO: NURS 3501 or NURS 4502
OR: seminar 2 hours per week
PR: NURS 2520

3012 Nursing Concepts for Children, Adolescents and Young Adults uses a conceptual approach to focus on the nursing care of individuals and families, from infancy to young adulthood. The emphasis is on assisting persons experiencing health related needs to achieve health and well-being.

CO: NURS 3512 or NURS 3513
CR: the former NURS 2011
PR: NURS 2520; or admission to the Fast-Track Option

3014 Nursing Concepts in Middle and Older Adulthood uses a conceptual approach and focuses on individuals and families from middle to older adulthood. The emphasis is on assisting persons experiencing acute and chronic health related needs to achieve health and well-being.

CO: NURS 3514
CR: the former NURS 3111
PR: NURS 2520

3023 Counselling focuses on the counselling role of the nurse, building on the communication skills inherent in a helping relationship. Gerard Egan's model, an integral part of the course, is a problem-management and opportunity development approach to helping. Key counselling skills are discussed and students have the opportunity to practice these skills to further enhance their ability to effectively counsel clients in a variety of nursing contexts.

CR: the former NURS 3022
PR: acceptance into the Bachelor of Nursing (Post-RN) program or admission to the Bachelor of Technology Program or admission to the Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option

3070 Health Assessment Across the Lifespan focuses on the development of competencies and assessment skills necessary for the completion and documentation of a comprehensive health assessment. Common physical alterations and developmental issues that may impact on client status and findings across the lifespan will be incorporated. Students are required to attend St. John's Campus for laboratory sessions.

CO: NURS 3380
CR: NURS 2040
PR: proof of a current practising license as a Registered Nurse.
UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

3104 Nursing Research builds on previously introduced research concepts. It explores the research process and its inherent ethical and legal implications. The course focuses on the acquisitions of concepts used to critically appraise nursing research studies and examines the relevance of these studies for nursing practice.

CO: Statistics 1510 or 2500 or equivalent, or Education 2900
CR: NURS 4002 and the former NURS 4104
PR: Statistics 1510 or 2500 or equivalent, or Education 2900

3113 Nursing Leadership and Management is designed to promote an understanding of the theories and principles of leadership and management in relation to the Co-ordinator of Care nursing role. Emphasis is placed on concepts of organizational structure and function, management of client care, team building, professional development, and application of nursing theories to practice. Current issues and trends are explored.

CO: NURS 3501 or NURS 4502, NURS 3512 or NURS 3513, and NURS 3514
PR: NURS 3501, 3512 or 3513, and 3514

3200 Transcultural Nursing - inactive course.

3380 Health Assessment Clinical Practice I focuses on the clinical application of knowledge and skills obtained in NURS 3070. Students are preceptored by either a nurse practitioner or physician in a primary health care setting to complete comprehensive health histories and physical examinations on clients across the lifespan. Students are required to attend St. John's Campus for clinical testing.

CO: NURS 3070
CR: NURS 2040
OR: 8 clinical hours per week
PR: proof of a current practising license as a Registered Nurse.
UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

3410 Roles of Nurse Practitioners in Primary Health Care examines the role of the nurse practitioner in the delivery of primary health care. Factors affecting role implementation and its impact on health care delivery will be discussed. The historical development and future trends of nurse practitioner practice in a changing health care system will be examined.

CO: NURS 4002
PR: NURS 2700 and NURS 4002
UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

3430 Concepts in Pharmacology Across the Lifespan focuses on the principles of pharmacology and nutritional therapies across the lifespan. Pharmacotherapeutic and nutritional management of common health problems within each body system will be discussed. Emphasis will be placed on the application of knowledge required to prescribe and monitor medication and nutritional therapies within the scope of practice for the Primary Health Care Nurse Practitioner.

CR: NURS 4702
PR: NURS 2740 and NURS 4701
UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

3501 Nursing Practice for Mental Health provides the student with opportunities to apply theoretical knowledge and to practise competencies acquired in NURS 3001 and related courses. Selected experiences related to the provision of nursing care for individuals, families, and small groups are offered in a variety of institutional and community based mental health settings.

CO: NURS 3001
OR: 96 hours during the semester

3512 Nursing Practice with Children, Adolescents and Young Adults provides the student with opportunities to apply knowledge and practise competencies acquired in NURS 3012. Selected experiences are offered in a variety of institutional and community based settings related to the provision of nursing care for children, adolescents, young adults and their families.

CO: NURS 3012
CR: the former NURS 2511
LH: 24 hours during the semester
OR: 64 clinical hours during the semester
PR: NURS 2520; or admission to the Fast-Track Option

3513 Nursing Practice with Children, Adolescents and Young Adults provides the student with opportunities to apply knowledge and practise competencies acquired in NURS 2017 and 3012. Selected experiences are offered in a variety of institutional and community based settings related to the provision of nursing care for children, adolescents, young adults and their families.

CH: 2
CO: NURS 3012
CR: the former NURS 2511 and NURS 3512
OR: 64 clinical hours during the semester
PR: NURS 2017 and NURS 2520

3514 Nursing Practice with Middle and Older Adults provides the student with the opportunity to practise competencies and apply knowledge acquired in NURS 3014 and related courses. Selected experiences related to the provision of nursing care for middle and older adults, and their families are offered in a variety of institutional and community based settings.

CO: NURS 3014
CR: the former NURS 3511
LH: 24 hours during semester
OR: 96 clinical hours during the semester
PR: NURS 2520

3523 Extended Practice III provides the students with the opportunity to apply leadership and management principles in coordinating care for groups of individuals within a variety of nursing care settings. Students also have the opportunity to further develop clinical competencies acquired in previous courses.

CH: 6
CR: the former NURS 3520 and the former 3521
OR: 40 clinical hours per week for eight weeks
PR: NURS 3001 and 3501 or 4502, NURS 3014 and 3514, NURS 3012 and 3512 or 3513, NURS 3113 and clinical placement approval from the Committee on Undergraduate Studies

4002 Introduction to Nursing and Health Research introduces students to the key terminology, elements, and processes of research. The focus will be on understanding the components of the research process, interpreting and critically analysing nursing and health-related research studies, and understanding the importance of utilizing research for evidence based practice. Students will have the opportunity to explore methodologies in both quantitative and qualitative research.

PR: Statistics 1510 or 2500 or equivalent, or Education 2900, and acceptance into the Bachelor of Nursing (Post-RN) program or admission to the Bachelor of Technology Program

4010 Community Health Nursing I introduces the student to the field of community health nursing. It focuses on the nursing care of individuals, families, groups, and the community. Core concepts include theoretic approaches to families, epidemiology, health promotion and the community as client.

CR: the former NURS 4311 or 4312

PR: NURS 2040, 2230, 2700, 3023 or the former 3022, 4002, and proof of current practising license as a Registered Nurse or admission to Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option

4101 Community Health Nursing focuses on the knowledge required to practise nursing at the aggregate and community levels. It further examines the principles of primary health care, their application in community health nursing and the multidimensional role of the nurse. Core concepts include: community development, epidemiology, program development, and the theoretical bases of community health nursing.

CO: NURS 2514 or admission to the Fast-Track Option

OR: tutorial 2 hours per week

4103 Issues in Nursing and Health Care focuses on the development of a personal framework for nursing practice, nursing organizations at the international level and nursing's role and development within health care systems. Current trends and issues in health policy and health care are examined.

PR: NURS 3113 or admission to the Fast-Track Option

4310 Community Health Nursing II allows the student to apply the knowledge and practise the competencies acquired in NURS 4010. Clinical experiences will focus on the nursing of selected families and population groups within the community, using a primary health care framework.

OR: 8 clinical hours per week

PR: NURS 4010 and proof of current practising license as a Registered Nurse or admission to Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option.

4370 Health Assessment Clinical Practice II provides clinical opportunities for students to complete focussed histories and physical examinations on clients across the lifespan. The integration and consolidation of knowledge and skills obtained in NURS 3070 and NURS 3380 is required. Students are preceptored in a primary health care setting by either a nurse practitioner or physician. Students are required to attend St. John's Campus for clinical testing.

CR: NURS 2040

OR: 8 clinical hours per week

PR: proof of a current, practising license, NURS 3070, and NURS 3380

UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

4501 Community Health Nursing Practice II provides the student with opportunities to apply knowledge acquired in Community Health Nursing Theory and other related courses. It also further develops competencies in community health nursing practice. In the clinical experiences, students work with selected aggregates (including individuals and families) in the community.

CO: NURS 4103

CR: NURS 4502

OR: 96 hours during the semester

PR: NURS 2014, NURS 2514, and NURS 3523

4502 Nursing Care in Community and Mental Health Settings provides opportunities for practice in acute care psychiatric/mental health and community settings with individuals, families, and groups/aggregates. The application of community health and mental health knowledge and competencies, with a particular focus on the concepts of vulnerability/resilience, will be emphasized.

CH: 6

CO: NURS 3001

CR: NURS 3501 and NURS 4501

OR: 168 hours during the semester

PR: Admission to the Fast-Track Option and NURS 2014 or 4101, NURS 2514, NURS 3014, NURS 3104, NURS 3514

4512 Community Health Practicum provides students with the opportunity to integrate and consolidate knowledge and competencies acquired throughout the program and apply them to community health nursing practice. Using a primary health care framework, the student participates in strategies which facilitate the mobilization of communities toward health. Online discussions will be included.

OR: 40 clinical hours per week for four weeks

PR: NURS 2014 or 4101, 2514, 4501, and 4515 or admission to the Fast-Track Option

4515 Nursing Concepts & Practice for Complex Care provides students the opportunity to work with individuals and their families who are experiencing multiple health challenges. Students are expected to synthesize concepts and theories of nursing, science and humanities, and participate in interprofessional collaborative practice in a variety of settings to facilitate the achievement of health and well-being for clients and their families.

OR: seminars 1 hour per week

OR: 144 clinical hours during the semester

PR: NURS 3523 or admission to the Fast-Track Option

4516 Consolidated Practicum provides students with the opportunity to

practice nursing with a select client population. Students apply and test knowledge from nursing and related disciplines in this selected clinical setting. The course also enables students to further develop their professional roles. Online discussions will be included.

CH: 6

CR: the former NURS 4514 or the former NURS 3522, and the former NURS 4513

OR: 40 clinical hours per week for ten weeks

PR: NURS 4103, NURS 4501 or 4502 and NURS 4515

4701 Current Concepts in Pathophysiology reviews the most recent theories in pathophysiology, current trends in diagnosis and treatment and their nursing implications. This course assumes a basic understanding of physiology.

PR: acceptance into the Bachelor of Nursing (Post-RN Program) and NURS 2740, or admission to the Bachelor of Technology Program or admission to Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option

4702 Current Concepts in Pharmacology and Nutrition explores current principles of nutrition and pharmacology in a variety of disease states. The course will be built upon previous nutrition and pharmacology knowledge. This course assumes a basic understanding of physiology.

PR: acceptance into the Bachelor of Nursing (Post-RN) program and NURS 2740.

4754 Clinical Dimensions of Professional Nursing Practice allows students to explore in depth, concepts and practices that are relevant to all populations across a variety of care settings. Emphasis will be placed on enhancing knowledge, attitudes and skills for nursing assessment, interventions and measurement of nursing-sensitive outcomes. Students will be required to apply the knowledge gained to client situations in clinical practice.

CR: the former NURS 4714, 4720 or 4723, 4734, and 4744

OR: 72 clinical hours during the semester

PR: NURS 2040, 2230, 2700, 3023 or the former 3022, 4002, 4701, 4702 and proof of current, practising license

5210 Health Care Systems focuses on the philosophical bases and practical considerations in the organization and administration of Health Care Delivery Systems. The planning, management and evaluation of the Canadian health care system will be compared with those of other countries. Future trends in the delivery of health care to Canadians will be discussed.

PR: admission to the Bachelor of Nursing (Post-RN) program and 3 credit hours in English and NURS 2230; or admission to the Bachelor of Technology Program and 3 credit hours in English.

5220 Professional Issues reviews the historical development of the nursing profession and facilitates discussion of factors influential in its evolution. Content will focus on the current status of nursing, ethical issues and the profession's impact on health care delivery. Selected categories of nursing theory, their impact on practice and education will be analysed in relation to major issues and future trends in nursing.

PR: Admission to the Bachelor of Nursing (Post-RN) program and 3 credit hours in English and NURS 2230.

5327 Interdisciplinary Course on Family Violence - inactive course.

5360 Advanced Clinical Decision Making – Clinical Practice focuses on the application of diagnostic reasoning and clinical decision making skills learned in N5600. Opportunities to acquire advanced skills to assist in the diagnosis and management of common health problems will be provided. Preceptored clinical experiences will be provided in primary health care practice settings. Students are required to attend St. John's Campus for demonstrations and clinical testing.

CO: NURS 5600

OR: 16 clinical hours per week

PR: proof of a current practising license as a Registered Nurse, NURS 4701, NURS 4310, and NURS 4370

UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

5370 Integrated Clinical Practicum provides opportunities for learners, under the mentorship of nurse practitioners and physicians, to gain experience in managing the health and illness needs of clients across the life span. Clinical learning experiences are selected to develop learner competence and confidence for the transition to the role of a Primary Health Care Nurse Practitioner. Students are required to attend St. John's Campus for clinical testing.

OR: 5 days of clinical per week

PR: proof of a current practising license as a Registered Nurse, NURS 5600 and NURS 5360

UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

5600 Advanced Clinical Decision Making focuses on the development of diagnostic reasoning and clinical decision making skills within the scope of practice of a primary care nurse practitioner. A systematic approach to patient assessment and management of health problems will be discussed. This course integrates knowledge acquired in previous courses. Students

are required to attend St. John's campus for some onsite lectures.

CO: 5360

PR: proof of a current, practising license as a Registered Nurse, NURS 4310, 4370, and 4701

UL: applicable only to the Bachelor of Nursing (Post-RN) Nurse Practitioner Primary Health Care Option

methods and issues are considered with emphasis on practical nursing examples.

PR: admission to the Bachelor of Nursing (Post-RN) program or admission to Bachelor of Nursing (Post-RN) Primary Health Care Nurse Practitioner Option and 3 credit hours in English and NURS 2230

UL: applicable only to the Bachelor of Nursing (Post-RN) program

5700 Nursing Management is designed to promote an understanding of theories and principles of management of nursing practice. Process,

Archived Previous Calendar
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SCHOOL OF PHARMACY

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Dean

Hensman, L.R., B.Sc.(Pharm.) *British Columbia*, Pharm.D. *SUNY at Buffalo*, M.B.A. *Memorial*; Associate Professor

Associate Dean, Graduate Studies and Research

Daneshtalab, M., Pharm.D. *Tehran*, Ph.D. *Tohoku*; Professor

Associate Dean, Undergraduate Studies

Phillips, L., B.Sc.(Pharm.) *Memorial*, Pharm.D. *British Columbia*; Cross appointment to Faculty of Medicine; Professor; Winner of the President's Award for Distinguished Teaching, 2010

Professor Emeritus

West, R., M.Sc., Ph.D. *McGill*

Professors

Liu, Hu, B.Sc.(Pharm.), M.Sc. *Beijing Medical*, Ph.D. *Alberta*
Loomis, C.W., B.Sc.(Hons.), M.Sc., Ph.D. *Queen's*; Vice-President (Research)

Associate Professors

Hawboldt J., BSP *Saskatchewan*, Pharm.D. *Washington*; Cross appointment to Faculty of Medicine
Kelly, D., B.Sc.(Pharm.) *Memorial*, Pharm.D. *Toronto*; Cross appointment to Faculty of Medicine
Law, R.M.T., B.Sc.(Pharm.) *Toronto*, Pharm.D. *SUNY at Buffalo*; Cross appointment to Faculty of Medicine
Wang, L., B.Sc., M.Sc. *Beijing Medical*, Ph.D. *Alberta*
Weber, J., B.Sc. *Eastern Michigan*, M.Sc. *Montana*, Ph.D. *Medical College of Virginia*; Cross appointment to Faculty of Medicine

Assistant Professors

Bishop, L., B.Sc.(Pharm.) *Memorial*, Pharm.D. *Colorado*; Cross appointment to Faculty of Medicine
Daneshtalab, N., B.Sc., Ph.D. *Alberta*; Cross appointment to Faculty of Medicine
Dillon, C., B.Sc.(Pharm.) *Memorial*, Pharm.D. *Toronto*; Cross appointment to Faculty of Medicine
Gamble, J.M., B.Sc. *Lakehead*, B.Sc.(Pharm.) M.Sc. *Alberta*
Kielly, J., B.Sc.(Pharm.) *Memorial*, Pharm.D. *Toronto*; Cross

appointment to Eastern Health
Schwenger, E., B.Sc.(Pharm.) *Memorial*, Pharm.D. *British Columbia*
Twells, L., B.A. *Memorial*, M.Sc. *London*, Ph.D. *Memorial*; Joint appointment with Faculty of Medicine
Young, S.W., B.Sc.(Pharm.), Pharm.D. *Idaho State*, M.Sc.(Med.) *Memorial*

Visiting Assistant Professors

Kille-Marino, J., B.Sc. *Pennsylvania State*, Ph.D. *West Virginia*, VMD *Pennsylvania*
Pevida, A., B.N., R.N., M.Sc.(Med.) *Memorial*

Drug Information Pharmacists

Peddle, J., B.Sc.(Pharm.) *Memorial*
Woodford, E., B.Sc.(Pharm.) *Memorial*

Adjunct Professor

MacDonald, D., B.Sc., M.Sc., Ph.D. *Memorial*

Clinical Assistant Professors

Edwards, S., B.Sc.(Neuro), B.Sc.(Pharm.) *Memorial*, Pharm.D. *Washington*
Thomas, B., Pharm.D. *Colorado*

Cross Appointments

Dawe, L., B.Sc.(Hons.), B.Ed., Ph.D. *Memorial*, M.Sc. *Utah*; Cross appointment from Faculty of Science (Chemistry)
Randell, E.W., Ph.D. *Memorial*, DCC, FCACB *Toronto*; Cross appointment from Faculty of Medicine

Lecturers

Conway, A., B.Ed., B.Sc.(Pharm.) *Memorial*
Genge, T., B.Sc.(Pharm.) *Memorial*
Lee, T., B.Sc.(Pharm.) *Memorial*

Structured Practice Experience Program Co-ordinator

Spurrell, W., B.Sc.(Pharm.) *Memorial*

Laboratory Instructor

Ryan, P., B.Sc., M.Sc.(Med.) *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 School Description

The School of Pharmacy offers an undergraduate degree in pharmacy and graduate degrees in pharmaceutical sciences. The School is committed to providing an undergraduate program of quality and excellence that will prepare individuals who will contribute significantly in all settings of pharmacy practice. The experiential learning component of the program ensures students have the opportunity to integrate academic learning with professional practice and to develop the necessary knowledge, skills and attitudes required of practising pharmacists. The School encourages a close working relationship among students, faculty, and staff, and prides itself on its strong association with and support of the pharmacy community at both the provincial and national level.

Additional information regarding the School of Pharmacy is available at www.mun.ca/pharmacy.

Students must meet all regulations of the School in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (Undergraduate), refer to **UNIVERSITY REGULATIONS**.

2.1 Vision Statement

Working together towards a healthy tomorrow; *Become....the future of pharmacy.*

2.2 Mission Statement

As a School of Pharmacy with a strong sense of community, we are dedicated to:

- expanding the School of Pharmacy and developing the School as a Centre of Excellence for Comprehensive Pharmacy Studies;
- preparing pharmacy professionals committed to collaborative patient-centered care;
- fostering excellence and innovation in research and graduate studies;
- advancing the scope of pharmacy practice; and
- building upon a learning environment in which every student is valued.

2.3 Accreditation Status

The School of Pharmacy is accredited by the Canadian Council for Accreditation of Pharmacy Programs (CCAPP) to June 2016.

3 Description of Program

The School of Pharmacy offers an undergraduate program leading to the degree of Bachelor of Science (Pharmacy). This degree is designed to prepare graduates for careers primarily in community and hospital settings but also in the pharmaceutical industry, pharmacy organizations, health sciences research, government, and educational environments. After successful completion of national examinations, a graduate of the program is eligible to apply to be licensed as a pharmacist in Newfoundland and Labrador and other provinces in Canada.

The program of study leading to the Bachelor of Science (Pharmacy) degree has two phases and requires at least five years to complete. Prior to entry to the program students will acquire a background in the mathematical and physical sciences. Once in the program students will take courses in the basic health sciences, pharmacy sub-specialties and social/administrative sciences. At the end of each year students will have an opportunity to apply the academic knowledge acquired and to develop and practice patient care skills by participating in experiential learning within community and hospital settings. During the program students will develop an understanding of the professional and societal responsibilities of a pharmacist, and will recognize the need for lifelong learning.

3.1 Structured Practice Experience

Students are required to successfully complete all experiential components of the program, including the Structured Practice Experience (SPE). During SPE's students are placed in a variety of pharmacy practice settings and are brought into direct contact with patients, pharmacists and other health professionals. Students become involved in the practice of pharmaceutical care and are expected to assume increasing responsibility as their education advances. Such practice experiences ensure students are exposed to situations which cannot be provided in the classroom.

1. The Joint Committee on Structured Practice Experience, consisting of representatives from both the School of Pharmacy and the Newfoundland and Labrador Pharmacy Board, is responsible for providing the overall direction for the program and recommending policies and procedures for its operation.
2. Students will be placed at sites by the School. The Structured Practice Experience Co-ordinator liaises with students to determine placements.
3. While every effort will be made to accommodate a student's request to complete SPEs in a specific location, a student may be assigned to any participating site within the province of Newfoundland and Labrador.
4. Students are responsible for all travel and accommodation costs associated with the SPE.
5. Students who conduct themselves in such a manner as to cause their termination from the SPE site, including breaches in confidentiality, violation of policies and professional misconduct will be assigned a grade of FAL (fail) for that SPE.
6. Students are required to provide evidence of a valid certificate, normally, in St. John Ambulance or Canadian Red Cross Standard First Aid Level C that is valid for the duration of the SPE. Equivalent certificates will be considered and assessed on an individual basis for acceptability.
7. Students are required to complete three SPEs, each of four weeks duration, and one SPE of twelve weeks duration. The first three SPEs are completed at the end of the Winter semester in the first, second, and third years of the program. The final SPE is completed in the Winter semester of the final year of the program.
8. The number of hours per week of the SPE program will be as required by CCAPP standards.
9. Students will be evaluated on their performance during the SPE and on written assignments including workbooks, pharmaceutical care case work-ups and drug information requests. Students may have workbooks audited or they may be formally examined on material learned during the SPE period. The overall evaluation of SPEs will result in the assignment of one of the following grades: PWD (pass with distinction), PAS (pass), or FAL (fail).

3.2 Registration as a Pharmacy Student

A student must be registered as a "Pharmacy Student" with the Newfoundland and Labrador Pharmacy Board. A student must be registered by September 30th of each academic year. As well, a student must be registered as a "Pharmacy Student" with the respective provincial or territorial licensing body prior to the commencement of Structured Practice Experiences. A student who fails to meet the requirements for licensing may be required to withdraw from the program.

4 Admission Regulations for the School of Pharmacy

In addition to meeting **UNIVERSITY REGULATIONS** students applying for admission for the program must meet the admission regulations of the School.

4.1 General Information

1. Admissions will be to the first year of pharmacy studies.
2. Entry to the School is competitive for a limited number of placements. Priority is given to applicants who are bona fide residents of Newfoundland and Labrador. The final decision on admission rests with the Admissions Committee of the School.
3. The Admissions Committee considers each applicant's academic background and information on the applicant's personal characteristics and achievements as given by the applicant. Personal interviews, which may include both a written and oral component, may be required. Reports from referees may also be considered.
4. The School of Pharmacy does not require criminal record checks or other screening procedures as a condition of admission to its program. However, students should be aware that such record checks or other screening procedures may be required by agencies used by the University for clinical or structured practice experiences related to academic course assignments necessary for graduation. Such agencies may refuse to accept students on the basis of information contained in the record check or other screening procedure thus preventing the student from completing a practice experience or other clinical requirement. As a result, such students may not be eligible for promotion or graduation.

It is the students' responsibility to have such procedures completed as required and at their own expense.

The screening procedures of any given agency may change from time to time and are beyond the control of the University.

4.2 Application Forms and Deadlines

1. Application forms are available in person from the School and the Office of the Registrar or through the School's website at www.mun.ca/pharmacy. Application forms may also be obtained by writing the School of Pharmacy, Memorial University of Newfoundland, St. John's, NL A1B 3V6 or the Office of the Registrar, Admissions Office, Memorial University of Newfoundland, St.

John's, NL A1C 5S7.

2. All application forms and fees for admission to the program for the Bachelor of Science (Pharmacy) must be submitted to the Office of the Registrar of the University on or before the deadline of March 1 in any year. The program commences in the Fall semester.
3. Applications will be reviewed after the closing date by the Admissions Committee of the School. This Committee has the delegated authority of the School's Academic Council to admit or decline to admit applicants, following guidelines and procedures acceptable to that Council.
4. Each applicant is responsible for ensuring that all the required information for application is supplied to the Admissions Committee, and for providing any further information required by the Committee. An application will not be considered to be complete until all documentation has been received and appropriate fees paid.

4.3 Admission Requirements to the School

Applicants who are not currently students at Memorial University of Newfoundland must apply for admission to the University under the **Categories of Applicants, Admission Criteria and Other Information** outlined under **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate)**. In addition to meeting these regulations, applicants to the School must meet requirements as indicated below.

1. To be eligible for consideration an applicant shall have completed a minimum of 30 credit hours which have been taken or accepted for credit at a recognized university or university college.
2. An applicant is normally required to have completed each of the following courses or their equivalents. In the case of transfer students, the course equivalencies relate to courses taught at Memorial University of Newfoundland, St. John's campus.
 - Biology 1001 and 1002
 - Chemistry 1050 and 1051 or equivalent
 - Six credit hours at the 1000-level in English
 - Mathematics 1000 and 1001
 - Physics 1020 and 1021 or Physics 1050 and 1051
3. For students attending Grenfell Campus, the following course offerings are acceptable for admission to the School;
 - Biology 1001 and 1002
 - Chemistry 1200 and 1001
 - Six credit hours at the 1000-level in English
 - Mathematics 1000 and 1001
 - Physics 1020 and 1021, or Physics 1050 and 1051
4. Normally an application will not be considered from an applicant who cannot produce evidence that the above requirements have been met or will have been met by end of the Winter semester of the year in which admission is being sought.
5. An unsuccessful applicant who wishes to reapply for admission is required to submit the application forms relevant to the year of reapplication and will be required to enter into the competition for that year.

4.4 Acceptance Procedures

1. Notification of the decision of the Admissions Committee of the School will be made to applicants by the Dean of the School by letter. No other form of notification will be considered official.
2. The letter of acceptance will give the successful applicant 14 days from the date of the letter of notification in which to confirm acceptance of the placement offer. The signed intention to accept the offer must be accompanied by a deposit of \$100, which will be credited towards tuition fees. The deposit will be forfeited if the applicant subsequently declines the offer or fails to register. If no reply is received within 14 days, the offer by the School will be withdrawn and the applicant will be informed of this by letter.

5 Program Regulations - General Degree

5.1 Bachelor of Science (Pharmacy)

- The 176 credit hour Bachelor of Science (Pharmacy) degree requires 30 credit hours before admission to the program and 146 credit hours after admission to the program. The program includes four structured practice experiences, three of which are non-credit, with the other having 18 credit hours.
 - The program courses shall normally be taken in the academic terms in the sequence and course load as set out in **Table 1 Bachelor of Science (Pharmacy)**. Students wishing to change the sequence and/or reduce the course load required in the academic terms must obtain permission from the School's Committee on Undergraduate Studies.
 - Elective courses may be taken from any academic unit.

Table 1 Bachelor of Science (Pharmacy)

Term	Required Courses	Elective Courses
Courses required for admission as indicated under Admission Requirements to the School	Biology 1001 and 1002 Chemistry 1050 and 1051 or equivalent Any 6 credit hours at the 1000 level in English Mathematics 1000 and 1001 Physics 1020 and 1021 or Physics 1050 and 1051	
Fall Academic Term 1	Chemistry 2440 PHAR 2002 PHAR 2101 PHAR 2201 PHAR 2650 Psychology 1000	
Winter Academic Term 2	PHAR 2003 PHAR 2004 PHAR 201W PHAR 2102 PHAR 2202 PHAR 2203 PHAR 2651 Psychology 1001	
Fall Academic Term 3	Medicine 4300 PHAR 3003 PHAR 3111 PHAR 3203 PHAR 3205 PHAR 3650	
Winter Academic Term 4	PHAR 3006 PHAR 3009 PHAR 302W PHAR 3103 PHAR 3204 PHAR 3301 PHAR 3651	
Fall Academic Term 5	PHAR 4008 PHAR 4201 PHAR 4302 PHAR 4401 PHAR 4504 PHAR 4650	
Winter Academic Term 6	PHAR 403W PHAR 4402 PHAR 4503 PHAR 4505 PHAR 4651 Philosophy 2551 or the former Philosophy 2803	3 credit hours
Fall Academic Term 7	PHAR 5301 PHAR 5302 PHAR 5401 PHAR 5506 PHAR 5650	3 credit hours
Winter Academic Term 8	PHAR 500X	

6 Promotion Regulations

6.1 General Information

- The Committee on Undergraduate Studies will determine each student's promotion status at the end of each academic year.
- In addition to meeting the promotion regulations for the School students must meet the general academic regulations (undergraduate). For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.
- Success in the program depends on meeting the requirements of all terms.

6.2 Promotion Status

A student's promotion status at the end of each academic year will be in one of the following two categories:

6.2.1 Clear Promotion

Clear Promotion means a student can proceed to the next academic year without restrictions.

- Students will receive a Clear Promotion from an academic year by obtaining an average of 65% and having obtained at least a pass in each course. A weighted average based on credit hours in the Bachelor of Science (Pharmacy) program courses will be calculated for determining eligibility for promotion. Neither promotion nor graduation will be permitted if a student has a numeric grade below 50% in any course in the program.
- Students completing PHAR 2102 must obtain a numeric grade of at least 70%.
- Students completing PHAR 201W, 302W, 403W, or 500X must obtain a grade of PAS or PWD in each course.
- Students must attain a passing grade in each elective, but these courses will not be included in calculating the student's average grade for the purposes of promotion, graduation, or academic awards.

6.2.2 Promotion Denied

Promotion Denied indicates Clear Promotion is not achieved at the end of each academic year.

- A student with Promotion Denied status will normally be required to withdraw from the School.
 - A student who does not obtain a clear promotion may be permitted to repeat all or part of the academic year. If a student is required to repeat a year on the grounds of unsatisfactory performance, his or her performance in the repeated year must meet the conditions for Clear Promotion. If this standard is not met, the Committee on Undergraduate Studies may require the student to withdraw from the program.
 - Normally, the option to repeat a year on the grounds of academic difficulties can be offered only once during the student's Bachelor of Science (Pharmacy) program. This restriction may be waived if it has been demonstrated that the student's academic performance has been adversely affected by factors duly authenticated and acceptable to the Committee on Undergraduate Studies.
- A student with Promotion Denied status at the end of the final academic term will not be recommended for graduation until the student's status is changed to Clear Promotion.

6.3 Other Information

- Students may be required to withdraw from their program at any time, if, in the opinion of the School, they are unlikely to benefit from continued attendance.
- The Committee on Undergraduate Studies may require a student who is deemed unlikely to benefit from continued attendance in his/her course of study to withdraw conditionally. The Chair of the committee will advise the Dean of the School of the circumstances precipitating this action, the duration of the withdrawal and any conditions the student must fulfil during the withdrawal. The Dean may then recommend to the Registrar that the student is on conditional withdrawal. Upon completing the conditions, the student may be permitted re-entry to the program. If the conditions are not met, the student may be required to withdraw from the program.
- The School reserves the right to require a student to withdraw from the program at any time when acceptable cause is demonstrated. In such cases, the Dean, on behalf of the School, shall recommend such withdrawal to the Registrar who will then take appropriate action. Any such action is subject to the right of appeal by the student. An appeal should be made in writing clearly stating the basis for the appeal and should be directed in the first instance to the Registrar of the University. The Registrar, in consultation with the Dean, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.

6.4 Leave of Absence

- Upon completion of an academic year, a student in good standing may elect to withdraw temporarily from studies. Voluntary withdrawal at other times and for other reasons may be permitted in accordance with **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Registration**. In all cases, the intent to withdraw voluntarily should be discussed with the Dean. The Dean may then recommend to the Registrar that a student be permitted to withdraw for a stated period of time. At the end of this period, the student, in consultation with the Committee on Undergraduate Studies, should ensure that sufficient revision and preparatory work is undertaken to allow studies to be resumed readily. In the absence of good cause, any such student who does not resume studies on the specified date may be deemed to have left the program.

7 Supplementary and Deferred Examination Regulations

- Supplementary examinations may be permitted in some courses offered by the School of Pharmacy. Students seeking to write a supplementary midterm or final examination shall apply in writing by completing the "Application for Supplementary Examination" form which is available from the School's website at www.mun.ca/pharmacy/undergrad/Policies_and_Procedures.php.
- This form must be submitted within seven days following release of midterm marks in the case of supplementary midterm examinations or within seven days following release of the final grades in the case of supplementary final examinations. The completed form should be submitted to the Dean's office for consideration.
- The transcript will indicate that the final grade was earned as a result of a supplementary examination. Course coordinators shall advise students in the course outline that such a notation will be made on the transcript.
- Students shall be permitted to write a maximum number of one supplementary examination (excluding Pharmacy Skills & Structured

Practice Experience (SPE) courses) during each academic year of the pharmacy program. For any one registration in a course, a student shall be permitted to write a final supplementary examination only once.

- For further details please refer to the School's Supplementary Examination Policy which is available at www.mun.ca/pharmacy/undergrad/Policies_and_Procedures.php or contact the Associate Dean of Undergraduate Studies.
- Memorial University of Newfoundland has official regulations regarding deferred final examinations, available at **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Exemptions From Final Examinations and Procedures for Applying to Write Deferred Examinations**. Deferred midterm examinations may be permitted in some courses offered by the School of Pharmacy. For details please refer to the School's Deferred Examination Policy which is available at www.mun.ca/pharmacy/undergrad/Policies_and_Procedures.php or contact the Associate Dean of Undergraduate Studies.

8 Waiver of School Regulations

A student has the right to request waiver of School regulations. A student wishing waiver of University academic regulations should refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**.

8.1 General Information

- The School reserves the right in special circumstances to modify, alter, or waive any School regulation in its application to individual students where merit and equity so warrant in the judgment of the Committee on Undergraduate Studies of the School.
- All requests must be submitted to the Committee on Undergraduate Studies of the School for consideration. A student requesting a waiver of a School regulation must submit the request in writing to the Chair of the Committee on Undergraduate Studies. Medical and/or other documentation to substantiate the request must be provided.
- Any waiver granted does not reduce the total number of credit hours required for the degree.

9 Appeal of Regulations

Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations**.

- An applicant who has been denied admission has the right to appeal this decision of the Admissions Committee if it is felt by the applicant that the decision was reached on grounds other than those outlined in **Admission Regulations for the School of Pharmacy**. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Dean of the School. The letter should state clearly and fully the grounds for the appeal. If the Dean of the School, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated.
- A student has the right to make a formal appeal against a decision of the Committee on Undergraduate Studies. However, this appeal cannot be made on the basis of the grades awarded in individual courses, as the student will normally have had the opportunity of contesting grades immediately after notification. A formal appeal by a student against the decision of the Committee must be made on grounds other than the grades awarded, e.g. default of procedure. This appeal should be made in writing, clearly stating the basis for the appeal and should be directed in the first instance to the Registrar of the University. The Registrar, in consultation with the Dean, will determine whether or not the grounds stated are sufficient to warrant a formal hearing of the appeal.

10 Course Descriptions

In accordance with *Senate's Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the School.

All courses of the School are designated by PHAR and are restricted to students in the School of Pharmacy.

2002 Anatomy and Physiology I presents a survey of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of pharmacy. Special emphasis is given to the skeletal, muscular, nervous and endocrine systems. The course will include both the vocabulary and concepts of anatomy and physiology with the overall goal being the understanding of the interrelationships and integration of all systems from the cell to whole organism.

CR: Nursing 1002
LH: 2; attendance is required

2003 Anatomy and Physiology II presents a survey of human anatomy and physiology throughout the lifespan. It includes aspects of cytology and histology that form a foundation for the practice of pharmacy. Special emphasis is given to the endocrine, circulatory, respiratory, urinary, digestive and reproductive systems. The course will include both the vocabulary and concepts of anatomy and physiology with the overall goal being the understanding of the interrelationships and integration of all systems from the cell to whole organism.

CR: Nursing 1012
LH: 2; attendance is required
PR: PHAR 2002

2004 Introduction to Biochemistry is an introduction to the major organic substances of living organisms, proteins, carbohydrates and lipids: their structure, analysis and biochemical function. Enzymes. Biochemistry of membranes: plasma membrane and specialized intracellular membranes.

Biochemistry of selected differentiated cells.
CR: Biochemistry 2101
OR: tutorials as required
PR: Chemistry 2400 and 2401 or Chemistry 2440

201W Structured Practice Experience I is a structured practice experience in community pharmacy after completion of the first year which will provide an opportunity for students to apply their technical skills and introduce them to patient care activities. The structured practice experience is normally comprised of four weeks during May/June.

AR: attendance is required
CH: 0
LC: 0
PR: successful completion of all courses in Academic Terms 1 & 2 of the program

2101 Pharmacy Practice I provides an introduction to the legal and professional framework of the practice of pharmacy. Pharmacy regulations in the dispensing of medications and provincial legislation that governs the practice of pharmacy will be the focus. Students will be introduced to core competencies of the profession including professionalism, interprofessionalism, pharmaceutical calculations, drug information and effective communication strategies for the provision of pharmacist care. Application of course content will occur in the concurrent course PHAR 2650.

CO: PHAR 2650

2102 Pharmacy Practice II continues the introduction to the legal and professional framework of the practice of pharmacy. The course will focus on federal legislation that governs the practice of pharmacy, drug information, patient education and methods to deal with challenging patient behaviours. Students will be introduced to pharmaceutical care and begin to develop a pharmacist care plan. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available. The passing grade in this course is 70%, failing which the student may be required to withdraw from the program.

CH: 2
CO: PHAR 2651
LC: 2
OR: tutorials 2 hours per week; attendance is required

2201 Pharmaceutics I provides an insight into a number of physicochemical basics and explains them within a pharmaceutical context. The course provides the basic foundation necessary for the study of pharmaceutical dosage forms, pharmacokinetics and bio-pharmaceutics.

LH: 3; attendance is required

PR: Mathematics 1000 and 1001; and Chemistry 1050 and 1051, or Chemistry 1200 and 1001, or equivalent

2202 Pharmaceutics II is designed to provide the student with an understanding of pharmaceutical dosage forms and their applications. It applies the principles taught in Pharmaceutics I to understand the design and components of the different pharmaceutical preparations.

LH: 3; attendance is required

PR: PHAR 2201

2203 Pharmaceutical Analysis is designed to introduce some important techniques and methods of analysis in pharmaceutical sciences. The laboratory exercises consist of both non-instrumental and instrumental analytical techniques that are widely employed in the analysis of pharmaceuticals.

CH: 2

LC: 2

LH: 3 hours every other week; attendance is required

PR: Chemistry 1050 and 1051 or Chemistry 1200 and 1001 or equivalent

2650 Pharmacy Skills provides an introduction to the skills necessary for pharmacy practice in order to meet the educational outcomes for the first year of the pharmacy program. This course is the first in a series of Pharmacy Skills courses, all of which require students to acquire and apply the knowledge, attitudes and skills necessary for the effective practice of the profession. Students will begin to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will apply basic knowledge and skills in drug information, technology, interpersonal communications and pharmacy legislation to simulated practice situations. Students will develop public communication skills through the completion of a professional communications program. Activities in this course will complement material covered in the concurrent course PHAR 2101.

CO: all Academic Term 1 Pharmacy courses

CR: the former PHAR 2150

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

2651 Pharmacy Skills provides an introduction to the skills necessary for pharmacy practice in order to meet the educational outcomes for the first year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Pharmacy practice in the community pharmacy setting will be a focus. Students will develop dispensing, drug information and pharmaceutical calculations skills relevant to community pharmacy practice. Students will begin developing their patient interaction and patient education skills. Activities in this course will complement material covered in the concurrent PHAR 2102. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 2 Pharmacy courses

CR: the former PHAR 2151

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

PR: PHAR 2101 and 2650

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

3003 Pathophysiology examines the nature of disease, causes and effects, and alteration in structure and function of cells, inflammation, neoplasia, genetic and chromosomal diseases, healing and repair, stress and disease.

PR: PHAR 2003 or equivalent

3006 Immunology (same as PHAR 4105) is an introduction to the molecular and cellular basis of immunity and hypersensitivity. Manipulation of the immune system in the management and treatment of disease is discussed.

CR: PHAR 4105

PR: PHAR 2003

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

3009 Pharmacology explores topics in general pharmacology including drugs used in the treatment of inflammatory diseases, renal pharmacology, anticoagulant and antithrombotic drugs, antihyperlipidemics, drugs used in the treatment of anemia, and endocrine pharmacology.

PR: Medicine 4300 or equivalent

302W Structured Practice Experience II is a structured practice experience in hospital pharmacy after completion of the second year which

will provide an opportunity for students to apply their technical skills and introduce them to patient care activities. The practical experience is normally comprised of four weeks during May/June.

AR: attendance is required

CH: 0

LC: 0

PR: successful completion of all courses in Academic Terms 3 & 4 of the program.

3103 Microbiology of Infectious Diseases examines the various types of micro-organisms (bacterial, viral, parasitic and fungal), the environment in which they are able to multiply and their relationship to human diseases. The classifications of their morphology, mode of reproduction and the metabolic process, the physiological and epidemiological principles of infectious diseases and their manifestations are discussed including the principles of immunization.

3111 General Biochemistry covers the catabolism of carbohydrates, lipids and amino acids. Mitochondria, chloroplasts and ATP synthesis. Biosynthesis of carbohydrates and lipids. Metabolic specialization of differentiated cells and tissues. Integration of metabolism.

CR: Biochemistry 3106

OR: tutorials as required

PR: PHAR 2004 or the former 3110 or Biochemistry 2101

3203 Medicinal Chemistry I presents topics covering the molecular basis of action, metabolism, and toxicity of drugs. It provides an orientation to medicinally important nuclei and their nomenclature, followed by principles of drug discovery and development. The relationship between molecular structure and biological action of drugs together with elementary molecular modelling, and theories related to receptors and drug action will be presented. Concepts of drug metabolism and the relevant metabolic pathways in relationship to drug inactivation and toxicity, along with the principles of drug latention and prodrugs is covered. The structures, selected physicochemical properties, mechanism of action, structure-activity relationships, toxic effects at molecular level, and metabolism of drugs including central nervous system.

CO: Medicine 4300 and PHAR 3003

OR: tutorials 1 hour per week; attendance is required

PR: Chemistry 2440 or Chemistry 2400 and 2401

3204 Medicinal Chemistry II is a continuation of Pharmacy 3203 and focuses on the structures, selected physicochemical properties, mechanism of action, structure-activity relationships, toxic effects at molecular level, and metabolism of different pharmacological classes of drugs including cholinergic agents, anaesthetic and anti-inflammatory agents, insulin and oral antidiabetic drugs, steroids and related compounds, antihyperlipidemic agents, histamine and antihistaminic agents, diuretic agents, angiotensin converting enzyme inhibitors and antagonists, and calcium channel blockers.

CO: PHAR 3009

OR: tutorials 1 hour per week; attendance is required

PR: PHAR 3203

3205 Pharmaceutics III consists of several units. The standards of good manufacturing practice will be introduced. Characteristics, preparation, quality assurance and delivery systems for sterile products will be covered. The basic principles governing the application of radiation and radioactive compounds in medical diagnosis and therapy will be discussed. The status of current biotechnology-based pharmaceuticals and biotechnology related matters will be addressed.

PR: PHAR 2202

3301 Patient Care I is an introductory course in patient care, especially in the areas of self-care and self-treatment and the role of the pharmacist. The regulatory environment of non-prescription products and the prevention and treatment of health conditions amenable to self-management will be discussed.

CO: PHAR 3009

PR: Medicine 4300

3650 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the second year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Pharmacy practice in the hospital setting will be a focus. Students will participate in sterile product preparation and practice drug information and pharmaceutical calculation skills relevant to hospital practice. Students will develop pharmacist care plans and will further develop their patient education skills. Scenarios will relate to the courses of study in the second year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 3 Pharmacy courses

CR: the former PHAR 3150

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

3651 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the second year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in practice sessions necessary to develop an understanding of and skills required in patient assessment and patient education related to patient self-care. Students will build on their pharmacist care skills to meet patients' drug-related needs in uncomplicated patient scenarios and drug information skills to assess information needs. Scenarios will relate to the courses of study in the second year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 4 Pharmacy courses

CR: the former PHAR 3151

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

PR: PHAR 3650

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

4008 Chemotherapy presents the principles of infectious diseases and cancer chemotherapy. Topics to be explored include molecular structure profiles in relation to mechanism of action, drug resistance, and toxicity of antimicrobial, antiviral, and antineoplastic agents. Antimicrobial activity/spectrum of activity of antibacterials, antifungals, antimalarial, antituberculosis, and antiviral/antiretroviral agents will be discussed. The classification and mechanism of action of cancer chemotherapeutic agents will be presented. Pharmacokinetic considerations, adverse effects/toxicity, and drug interactions will be explored for these agents.

CH: 2

CO: PHAR 4105, PHAR 4401

LC: 2

OR: tutorials 1 hour per week

PR: Medicine 4300, PHAR 3009, 3103, 3203 and 3204

403W Structured Practice Experience III is a structured practice experience in community pharmacy after completion of the third year which will provide an opportunity for students to apply their technical skills and practice and participate in patient care activities. The practical experience is normally comprised of four weeks during May/June.

AR: attendance is required

CH: 0

LC: 0

PR: successful completion of all courses in Academic Terms 5 & 6 of the program

4105 Immunology (same as PHAR 3006) is an introduction to the molecular and cellular basis of immunity and hypersensitivity. Manipulation of the immune system in the management and treatment of disease is discussed.

CR: PHAR 3006

PR: PHAR 2003

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

4150 Pharmacy Skills (same as PHAR 4650) continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the third year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in practice sessions necessary to develop an understanding of and skills required in patient assessment. Students will build on their pharmacist care skills to meet patients' drug-related needs in more complex patient scenarios, drug information skills to assess information needs, and medication preparation and dispensing skills to optimize safe and accurate medication delivery. Scenarios will relate to the courses of study in the third year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CH: 1

CO: all Academic Term 5 Pharmacy courses

CR: PHAR 4650

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

4151 Pharmacy Skills (same as PHAR 4651) continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the third year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will

participate in sessions that focus on ethical issues in pharmacy practice and communication with health care providers. Students will build on their patient assessment and pharmacist care skills to meet patients' drug-related needs in more complex patient scenarios and will use critical appraisal skills to respond to clinical questions. Scenarios will relate to the courses of study in the third year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CH: 1

CO: all Academic Term 6 Pharmacy courses

CR: PHAR 4651

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

PR: PHAR 4150

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

4201 Applied Pharmacokinetics (same as the former PHAR 3206) is an introduction to biopharmaceutical and pharmacokinetic principles used in the selection, dosing, monitoring and evaluation of drug therapy. Application of these principles in evaluating drug literature and developing drug dosage regimens of selected classes of drugs for individual patients will be discussed.

CR: the former PHAR 3206

PR: Medicine 4300, PHAR 2202 and 3009

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

4301 Patient Care II discusses the principles of health promotion and disease prevention and the role of the pharmacist.

CH: 1

CR: PHAR 4302

OR: tutorials 1 hour per week

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

4302 Patient Care II discusses the principle roles of health systems and health policy with a special emphasis on pharmaceutical policy and its impact on the profession, the public and on the delivery of pharmaceutical care. The principles of health promotion and the role of the pharmacist will be discussed. Students will gain knowledge about health challenges facing society, how education affects health, the roles of the pharmacist in educating and promoting health to patients.

CH: 1

CR: PHAR 4301 and the former 3501

PR: PHAR 2101, 2102, and 3301

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

4401 Therapeutics I is a part of a series that looks at the therapeutic management of common diseases. Topics may include but are not restricted to infectious diseases, hematology/oncology, and dermatology. For each disease state discussion will centre around several key issues including: the establishment of desired therapeutic outcomes; development of appropriate pharmacological and non-pharmacological therapeutic alternatives; factors to be considered to aid in the selection of an individualized therapeutic regimen; and the development of a monitoring plan to evaluate efficacy and safety.

CH: 6

CO: PHAR 4105, PHAR 4008

LC: 6

OR: tutorials 2 hours per week; attendance is required

PR: Medicine 4300, PHAR 3009 and 3206

4402 Therapeutics II is a part in a series that looks at the therapeutic management of common diseases. Topics may include but are not restricted to women's health, men's health, gastroenterology, musculoskeletal, neurological, respiratory disorders and transplantation. For each disease state discussion will centre around several key issues including: the establishment of desired therapeutic outcomes; development of appropriate pharmacological and non-pharmacological therapeutic alternatives; factors to be considered to aid in the selection of an individualized therapeutic regimen; and the development of a monitoring plan to evaluate efficacy and safety.

CH: 6

LC: 6

OR: tutorials 2 hours per week; attendance is required

PR: PHAR 4401

4501 Pharmacy Research and Evaluation II (same as PHAR 4504) introduces the biostatistical, pharmacoepidemiologic and pharmaco-economic concepts and develops the skills necessary to the practice of research and evaluation methods in applied pharmacy. The understanding of such methods is an important prerequisite in the critical appraisal of the health literature and the undertaking of evidence-based clinical practice.

CR: PHAR 4504

PR: the former PHAR 3501

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

4502 Pharmacy Research and Evaluation III (same as PHAR 4505) introduces students to principles of critical appraisal and provides opportunities to apply these principles to critique and evaluate current medical literature. Students will be assigned to a tutorial group, which will meet twice during the semester to critically appraise at least two recently published studies (journal club). Emphasis will be placed on appropriate application of critical appraisal skills and group discussion of impact of study findings on clinical practice. In addition, this course will also discuss drug utilization reviews and evaluations and the role of the pharmacist, as well as adverse drug event reporting and the role of the pharmacist.

CH: 1

CR: PHAR 4505

LC: 1

OR: tutorials 1 hour per week; attendance is required

PR: PHAR 4501

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

4503 Pharmacy Administration introduces students to the basic principles of management as it relates to pharmacy practice. Topics will include human resources and financial management, marketing, strategic planning and the principles and issues associated with safe and appropriate drug distribution. These will be discussed from both a community and an institutional practice focus.

4504 Pharmacy Research and Evaluation I (same as PHAR 4501) introduces the biostatistical, pharmacoepidemiologic and pharmaco-economic concepts and develops the skills necessary to the practice of research and evaluation methods in applied pharmacy. The understanding of such methods is an important prerequisite in the critical appraisal of the health literature and the undertaking of evidence-based clinical practice.

CR: PHAR 4501

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

4505 Pharmacy Research and Evaluation II (same as PHAR 4502) introduces students to principles of critical appraisal and provides opportunities to apply these principles to critique and evaluate current medical literature. Students will be assigned to a tutorial group, which will meet twice during the semester to critically appraise at least two recently published studies (journal club). Emphasis will be placed on appropriate application of critical appraisal skills and group discussion of impact of study findings on clinical practice. In addition, this course will also discuss drug utilization reviews and evaluations and the role of the pharmacist, as well as adverse drug event reporting and the role of the pharmacist.

CH: 1

CR: PHAR 4502

LC: 1

OR: tutorials 1 hour per week; attendance is required

PR: PHAR 4504 or equivalent

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

4650 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the third year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in practice sessions necessary to develop an understanding of and skills required in patient assessment. Students will build on their pharmacist care skills to meet patients' drug-related needs in more complex patient scenarios, drug information skills to assess information needs, and medication preparation and dispensing skills to optimize safe and accurate medication delivery. Scenarios will relate to the courses of study in the third year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 5 Pharmacy courses

CR: PHAR 4150

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

4651 Pharmacy Skills continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the third year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will participate in sessions that focus on ethical issues in pharmacy practice and communication with health care providers. Students will build on their patient assessment and pharmacist care skills to meet patients' drug-related needs in more complex patient scenarios and will use critical appraisal skills to respond to clinical questions.

Scenarios will relate to the courses of study in the third year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 6 Pharmacy courses

CR: PHAR 4151

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

PR: PHAR 4650

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

500X Structured Practice Experience IV provides experience in clinical practice. Students will participate as members of the health care team. They will be responsible for providing pharmaceutical care to patients. Activities will include attending patient care rounds, providing in-services and drug information, and participating in case presentations. The structured practice experience is comprised of two six week modules.

AR: attendance is required

CH: 18

LC: 0

PR: successful completion of all course requirements for the degree and Clear Promotion

5011 Pharmaceutical Biotechnology - inactive course.

5012 Pharmaceutical Analysis - inactive course.

5013 Hospital Pharmacy Administration - inactive course.

501A/B Pharmaceutical Research - inactive course.

5150 Pharmacy Skills (same as PHAR 5650) continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the fourth year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will build on their pharmacist care skills to meet patients' drug-related needs in patients with multiple drug related problems. Refinement of verbal and written communication skills will be a focus. Scenarios will relate to the courses of study in the fourth year and draw on material studied in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CH: 1

CO: all Academic Term 7 Pharmacy courses

CR: PHAR 5650

LC: 0

OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

5301 Clinical Toxicology covers the toxicology and clinical management of toxicity associated with common medications.

CH: 2

CO: PHAR 5401

LC: 2

5302 Patient Care III focuses on pharmaceutical care considerations in special patient populations (e.g., geriatrics, neonates, pediatrics, pregnancy and lactation, critically ill, etc.). Implementation of pharmaceutical care in hospital, ambulatory and community practice settings will be discussed.

CO: PHAR 5401

OR: tutorials 1 hour per week; attendance is required

5303 Patient Care IV provides the student with a basic understanding of supplements natural health products and will focus on pharmaceutical care considerations in using these products for the therapeutic management of common diseases.

CH: 2

LC: 2

OR: tutorials 2 hours per week; attendance is required

UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

5401 Therapeutics III is part in a series that looks at the therapeutic management of common diseases. Topics may include but are not restricted to endocrine, psychiatric, renal and cardiovascular disorders. For each disease state discussion will centre around several key issues including: the establishment of desired therapeutic outcomes; development of appropriate pharmacological and non-pharmacological therapeutic alternatives; factors to be considered to aid in the selection of an individualized therapeutic regimen; and the development of a monitoring plan to evaluate efficacy and safety.

CH: 6

LC: 6

OR: tutorials 2 hours per week

PR: PHAR 4402

5501 Pharmacy Research and Evaluation IV (same as PHAR 5506) discusses the principles of critical appraisal and provides opportunities to apply these principles to critique and evaluate current medical literature. Students will be assigned to a tutorial group, which will meet twice during the semester to critically appraise at least two recently published studies. Emphasis will be placed on appropriate application of critical appraisal skills and group discussion of impact of study findings on clinical practice.

CH: 1
 CR: PHAR 5506
 LC: 0
 OR: tutorials 1 hour per week
 PR: PHAR 4502
 UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted Fall 2011 or later

5506 Pharmacy Research and Evaluation III (same as PHAR 5501) discusses the principles of critical appraisal and provides opportunities to apply these principles to critique and evaluate current medical literature. Students will be assigned to a tutorial group, which will meet twice during the semester to critically appraise at least two recently published studies. Emphasis will be placed on appropriate application of critical appraisal skills and group discussion of impact of study findings on clinical practice.

CH: 1
 CR: PHAR 5501
 LC: 0

OR: tutorials 1 hour per week
 PR: PHAR 4505 or equivalent
 UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

5650 Pharmacy Skills (same as PHAR 5150) continues the development of the skills necessary for pharmacy practice in order to meet the educational outcomes for the fourth year of the pharmacy program. Students will continue to develop abilities in communication, professionalism, critical thinking, problem-solving, teamwork and self-directed learning. Students will build on their pharmacist care skills to meet patients' drug-related needs in patients with multiple drug related problems. Refinement of verbal and written communication skills will be focus. Scenarios will relate to the courses of study in the fourth year and draw on material studies in earlier years of the program. Students will participate in interprofessional education (IPE) modules with students from other health related programs when such modules are available.

CO: all Academic Term 7 Pharmacy courses
 CR: PHAR 5150
 LC: 0
 OR: practical sessions 3 hours per week; tutorials 1 hour per week; attendance is required
 UL: not applicable to the Bachelor of Science (Pharmacy) program for students admitted prior to Fall 2011

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Associate Dean (Administration and Undergraduate)

Foster, A., B.Sc. *Dalhousie*, M.Math *Waterloo*, Ph.D. *Dalhousie*; Motivational Teaching Award, 2001; Associate Professor of Mathematics and Statistics

Associate Dean (Research)

Courage, M.L., B.A. *Memorial*, M.Sc. *University of Alberta*, Ph.D. *Memorial*; Professor (Psychology); Cross appointment to the Discipline of Pediatrics, Faculty of Medicine

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Department of Biochemistry

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Acting Head

Davis, P.J., B.Sc., Ph.D. *Memorial*; Professor

Professor Emeritus

Keough, K.M.W., B.Sc.(Hons.), M.Sc., Ph.D. *Toronto*

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Mulligan, M.E., B.Sc.(Hons.) *National University of Ireland*, Ph.D. *Harvard*; Winner of the President's Award for Distinguished Teaching, 1999

Robinson, J.J., B.Sc.(Hons.) *University College Dublin*, M.Sc. *Trinity College Dublin*, Ph.D. *Alberta*

Shahidi, F., B.Sc. *Shiraz*, Ph.D. *McGill*, University Research Professor, Awarded 1998; Cross appointment with Department of Biology

Associate Professors

Bertolo, R.F.P., B.A.Sc.(Hons.) *McMaster*, M.Sc., Ph.D., *Guelph*; Canada Research Chair in Human Nutrition

Booth, V.K., B.Sc.(Hons.) *Victoria*, M.Sc. *Waterloo*, Ph.D. *Toronto*; Canada Research Chair in Proteomics; Deputy Head (Undergraduate); Cross appointment with Department of Physics and Physical Oceanography

Brunton, J.A., B.A.Sc. *Guelph*, Ph.D. *McMaster*

Ghazala, S., B.Sc. *Baghdad*, Dip.Mech.Eng., M.Sc. Mech. Eng. *University of Technology, Baghdad*, Ph.D. *McGill*

MacPhee, D.J., B.Sc.(Hons.) *Prince Edward Island*, Ph.D. *Western Ontario*; Cross appointment from Faculty of Medicine

Nag, K., B.Sc.(Hons.), M.Sc. (Part I) *Calcutta*, M.Sc., Ph.D. *Memorial*

Randell, E.W., B.Sc.(Hons.), Ph.D. *Memorial*; Cross appointment from Faculty of Medicine

Volkoff, H., B.Sc. *Pierre et Marie Curie University*, M.Sc. *University of Aix-Marseille III*, Ph.D. *Clemson University*; Joint appointment with Department of Biology

University of Aix-Marseille III, Ph.D. *Clemson University*; Joint appointment with Department of Biology

Assistant Professors

Brown, R.J., B.Sc.(Hons.), Ph.D. *Ottawa*

Christian, S.L., B.Sc.(Hons.) *Alberta*, Ph.D. *University of British Columbia*; Cross appointment with Faculty of Medicine

Adjunct Professors

Banoub, J., B.Sc.(Hons.) *Alexandria*, Ph.D. *Montreal*

Hayley, M.J., B.Sc.(Hons.), M.Sc., Ph.D. *Memorial*

Administrative Assistant

Sinnott, A.L., B.Comm., M.B.A. *Memorial*

Communal Research and Instrumentation Grouping Supervisor

Skinner, C.T.

Senior Technician, Student Laboratory

Murphy, M.J., B.Sc., B.Ed. *Memorial*

Department of Biology

www.mun.ca/biology/Home/

Head

Marino, P., B.A. *Vermont*, M.Sc. *Northern Arizona*, Ph.D. *Alberta*

Professores Emeriti

Bal, A.K., B.Sc., M.Sc., Ph.D. *Calcutta*

Burton, D., B.Sc. *Wales*, P.G.C.E., Ph.D. *London*

Burton, M., B.Sc., Ph.D. *London*

Haedrich, R.L., A.B., A.M., Ph.D. *Harvard*; University Research Professor, Awarded 1999

Khan, R.A., B.S.A., M.Sc., Ph.D. *Toronto*

Patel, T.R., B.Sc., M.S. *Baroda*, M.A., Ph.D. *Texas*

Steele, D.H., B.Sc. *Western Ontario*, M.Sc., Ph.D. *McGill*

Honorary Research Professors

Colbo, M., B.Sc., M.Sc. *Alberta*, Ph.D. *Queensland*

Collins, M.A.J., B.Sc., Cert. Ed., M.Sc. *Southampton*, B.Ed., M.Ed. *Memorial*, Ph.D. *Keele*; Winner of the President's Award for Distinguished Teaching, 1996-1997

Green, J.M., B.Sc. *Michigan*, M.Sc. *Miami*, Ph.D. *British Columbia*

May, A.W., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *McGill*, DU

Ottawa, D.Sc. *Memorial*, LL.D. *Brock*

Director of Memorial University of Newfoundland Botanical Garden

vacant

Professors

Abrahams, M., B.Sc.(Hons.) *Western*, M.Sc. *Queen's*, Ph.D. *Simon Fraser*; Dean of Science

Carr, S.M., B.Sc. *California Polytechnic*, C.Phil., Ph.D. *University of California, Berkeley*; Cross appointment to Faculty of Medicine

Hermanutz, L., B.Sc. *Guelph*, M.Sc. *Windsor*, Ph.D. *Western Ontario*; Cross appointment with Botanical Garden

Innes, D., B.Sc. *British Columbia*, M.Sc. *Dalhousie*, Ph.D. *S.U.N.Y.*; Deputy Head

Jones, I.L. B.Sc. *Carleton*, M.Sc. *Toronto*, Ph.D. *Queen's*

McGowan, R.A., B.Sc.(Hons.) *Brock*, Ph.D. *SUNY/AB*; Joint appointment with Department of Biochemistry

Miller, E.H., B.Sc. *Alberta*, M.Sc. *Canterbury*, Ph.D. *Dalhousie*

Snelgrove, P., B.Sc.(Hons.) *Memorial*, M.Sc. *McGill*, Ph.D. *Woods Hole*; Joint appointment with Ocean Sciences Centre

Staveley, B.E., B.Sc., M.Sc. *Guelph*, Ph.D. *Alberta*

Associate Professors

Dunbrack, R., B.A. *New Brunswick*, Ph.D. *Simon Fraser*

Edinger, E., B.A. *California*, M.Sc., Ph.D. *McMaster*; Joint appointment with Department of Geography

Gardner, G.A., B.Sc. *Guelph*, M.Sc., Ph.D. *British Columbia*; Associate Vice-President (Academic) (on leave)

Hooper, R.G., B.Sc. *Victoria*, Ph.D. *Portsmouth*; Curator,

Phycological Herbarium; Director, Bonne Bay Marine Station; Cross appointment to Grenfell Campus

Igamberdiev, A.U., Dr.Sci. *Russian Acad. Sciences*, Ph.D., M.S. *Voronezh*

Murrin, F., B.Sc.(Hons.) *Memorial*, M.Sc. *Acadia*, Ph.D. *Queen's*

Volkoff, H., B.Sc. *Pierre et Marie Curie University*, M.Sc. *University of Aix-Marseille III*, Ph.D. *Clemson University*; Joint appointment with Department of Biochemistry

Assistant Professors

Bignell, D., B.Sc.(Hons.) *Manitoba*, Ph.D. *Alberta*

Bykova, N.V., B.Sc., M.Sc., Ph.D. *Voronezh State*

Chapman, T.W., B.Sc.(Hons.), M.Sc. *Guelph*, Ph.D. *Simon Fraser*

Dufour, S., B.Sc.(Hons.), M.Sc. *Universite de Moncton*, Ph.D. *University California San Diego*

Lang, A.S., B.Sc.(Hons.) *Brock*, Ph.D. *British Columbia*

Marshall, H.D., B.Sc.(Hons.) *Memorial*, Ph.D. *Toronto*

Peña-Castillo, L., B.Sc. *ITESM-Veracruz, Mexico*, M.Sc. *Alberta*,

Ph.D. *Otto-von-Guericke, Magdeburg*; Joint appointment with

Department of Computer Science
 Purchase, C.F., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *Toronto*
 Tahlan, K., B.Sc. *Kurukshetra University*, Ph.D. *Alberta*
 Wiersma, Y.F., B.Sc.(Hons.), B.Ed. *Toronto*, M.Sc., Ph.D. *Guelph*

Adjunct Professors

Anderson, M.R., B.Sc., M.Sc. *Larval*, Ph.D. *McGill*
 Bratley, J., B.Sc.(Hons.) *Glasgow*, Ph.D. *Liverpool*
 Chaulk, K., B.Sc. *Dalhousie*, M.Sc. *Acadia*, Ph.D. *Memorial*
 Debnath, S., B.Sc.Ag.(Hons.), M.Sc.Ag. *Bangladesh Agric. Univ.*,
 Ph.D. *India Agric. Res. Inst.*
 Dixon, P.L., B.Sc. *Memorial*, M.Sc. *Guelph*, Ph.D. *Edinburgh*
 Gilkinson, K., B.Sc. *Ottawa*, M.Sc., Ph.D. *Memorial*
 Goudie, I., B.Sc. *Memorial*, M.Sc. *Western Ontario*, Ph.D.
Memorial
 Gregory, R.S., B.Sc.(Hons.) *Acadia*, M.Sc. *Trent*, Ph.D. *British*
Columbia
 Hamoutene, D., B.Sc. *Houari Boumedjeve Univ.*, M.Sc., Ph.D. *Aix-*
Marseille II Univ.
 Hicks, B., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *Univ. Edinburgh*
 Lewis, K., B.Sc. *University of California, Davis*, M.Sc., Ph.D.
Memorial
 Piercey-Normore, M., B.Sc., M.Sc., Ph.D. *Memorial*
 Quijon, P., B.Sc., M.Sc. *Universidad Austral de Chile*, Ph.D.
Memorial
 Reimer, K., B.Sc., M.Sc. *Calgary*, Ph.D. *Western Ontario*
 Robertson, G.J., B.Sc. *Queens*, Ph.D. *Simon Fraser*
 Stenson, G.B., B.Sc. *Alberta*, Ph.D. *British Columbia*
 Wahle, R., B.A. *University New Hampshire*, M.Sc. *San Francisco*
State University, Ph.D. *University Maine*
 Whitney, H.G., B.Sc. *McGill*, M.Sc. *Saskatchewan*, Ph.D. *Montréal*

Cross Appointments

Deibel, D., B.Sc. *Bucknett*, Ph.D. *Georgia*; University Research
 Fellow, Associate Professor (Research); Winner of the
 President's Award for Outstanding Research, 1990-1991; Cross
 appointment from Ocean Sciences Centre
 Fleming, I.A., B.Sc. *Queen's*, M.Sc. *Simon Fraser*, Ph.D. *Toronto*;
 Cross appointment from Ocean Sciences Centre
 Gagnon, P., B.Sc., Ph.D. *Laval University*; Cross appointment from
 Ocean Sciences Centre
 Gamperl, A.K., B.Sc.(Hons.), M.Sc. *Guelph*, Ph.D. *Dalhousie*;
 Cross appointment from Ocean Sciences Centre
 Mercier, A., B.Sc. *Université de Sherbrooke*, M.Sc., Ph.D.
Université du Québec à Rimouski; Cross appointment from
 Ocean Sciences Centre
 Parrish, C.C., B.Sc. *Wales*, Ph.D. *Dalhousie*; Winner of the
 President's Award for Outstanding Research, 1995-1996; Cross
 appointment from Ocean Sciences Centre
 Rise, M.L., B.Sc. *Whitworth College*, M.Sc. *Boston College*, Ph.D.
Victoria
 Rose, G.A., B.Sc. *Guelph*, M.Sc. *Laurentian*, Ph.D. *McGill*; Cross
 appointment from Fisheries and Marine Institute
 Schneider, D.C., B.Sc. *Duke*, Ph.D. *SUNY, Stony Brook*; Associate
 Dean (Research); Professor; Cross appointment from Ocean
 Sciences Centre; Cross appointment with Department of
 Psychology
 Shahidi, F., B.Sc. *Shiraz*, Ph.D. *McGill*; Cross appointment from
 Department of Biochemistry
 Storey, A.E., B.Sc.(Hons.), M.A. *Manitoba*, Ph.D. *Rutgers*; Cross
 appointment from Department of Psychology
 Wroblewski, J.S., B.Sc. *Illinois*, M.Sc., Ph.D. *Florida State*;
 Professor (Research); Cross appointment from Ocean Sciences
 Centre

Administrative Staff Officer

Kenny, A.J., B.A. *Memorial*

Supervisor of Laboratories

Collins, G.

Department of Chemistry

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Head

Pickup, P.G., B.A., D.Phil. *Oxon*; University Research Professor,
 Awarded 2005; Professor

Professores Emeriti

Anderson, H.J., M.Sc. *Manitoba*, Ph.D. *Northwestern*, F.C.I.C.
 Gogan, N.J., B.Sc.(Hons.), Ph.D. *National University of Ireland,*
Dublin, F.C.I.C.
 Lucas, C.R., B.Sc., M.Sc. *Acadia*, D.Phil. *Oxon*, F.C.I.C.

Machin, W.D., B.Sc. *Carleton*, Ph.D. *Rensselaer*
 Thompson, L.K., B.Sc., Ph.D. *Manchester*, F.C.I.C.; University
 Research Professor, Awarded 1995

Professors

Bodwell, G.J., B.Sc., M.Sc. *Victoria*, Dr.rer.nat. *Tech. Univ.*
Braunschweig; Deputy Head (Graduate Studies and Research);
 Winner of the President's Award for Outstanding Research,
 1998-1999; Winner of the Petro Canada Young Innovator
 Award, 1999-2000; Winner of the 2011 Distinguished Scholar
 Medal
 Georgeiou, P.E., B.Sc.(Hons.) *Witwatersrand*, Ph.D. *McGill*,
 F.C.I.C.
 Helleur, R.J., B.Sc. *Concordia*, M.Sc. *McGill*, Ph.D. *Queen's*; Cross
 appointment with Ocean Sciences Centre
 Mezey, P.G., M.Sc., M.Sc., Ph.D. *Budapest*, D. Sc. *Saskatchewan*;
 Canada Research Chair in Scientific Modelling and Simulation
 Poirier, R.A., B.Sc., M.Sc. *Laurentian*, Ph.D. *Toronto*, F.C.I.C.;
 Winner of the President's Award for Outstanding Research,
 1986-1987
 Wardlaw, D.M., B.Sc., Ph.D. *Toronto*; Provost/Vice-President
 (Academic)/Pro Vice-Chancellor

Associate Professors

Bottaro, C.S., B.Sc.(Hons.) *St. Mary's*, Ph.D. *Dalhousie*
 Davis, R.W., B.Sc. *Memorial*, Ph.D. *British Columbia*
 Flinn, C.G., B.Sc., M.Sc., Ph.D. *Dalhousie*; Deputy Head
 (Undergraduate Studies)
 Fridgen, T.D., B.Sc.(Hons.) *Trent*, B.Ed., Ph.D. *Queen's*
 Kerton, F.M., B.Sc.(Hons.) *Univ of Kent*, D.Phil. *Univ of Sussex*
 Kozak, C.M., B.Sc.(Hons.) *McMaster*, Ph.D. *UBC*; Winner of the
 2011 Terra Nova Young Innovator Award
 Merschrod, E., A.B. *Bryn Mawr Coll.*, M.S., Ph.D. *Cornell*
 Pansare, S.V., B.Sc., M.Sc., *Univ. Pune (India)*, Ph.D. *Alberta*
 Thompson, D.W., B.Sc.(Hons.), M.Sc. *Queen's*, Ph.D. *York*
 Zhao, Y., B.S., M.S. *Dalian*, Ph.D. *Alberta*; Winner of the Petro
 Canada Young Innovator Award, 2006-2007

Assistant Professor

Rowley, C.N., B.Sc.(Hons.) *Carleton*, Ph.D. *Ottawa*

Assistant Professors (term)

Dawe, L., B.Sc. (Hons.), B.Ed., Ph.D. *Memorial*, M.Sc. *University*
of Utah
 Hattenhauer, K.M., B.Sc. *Winnipeg*, Ph.D. *Manitoba*
 Warburton, P., B.Sc. (Hons.), M.Sc., Ph.D. *University of*
Saskatchewan

Cross-Appointments

Parrish, C.C., B.Sc. *Wales*, Ph.D. *Dalhousie*; Cross appointment
 from Ocean Sciences Centre
 Poduska, K., B.A. *Carleton College*, Ph.D. *Cornell*; Cross
 appointment from Department of Physics and Physical
 Oceanography

Adjunct Professors

Banoub, J.H., B.Sc.(Hons.) *University of Alexandria, Egypt*, Ph.D.
University of Montreal
 Keefe, D., B.Sc.(Hons.) *Memorial*, Ph.D. *University of Alberta*
 Miller, D., B.Sc., M.Sc. *Memorial*
 Schneider, C., B.Sc.(Hons.), M.Sc. *Universite de Nancy I (France)*,
 Ph.D. *Keele University*

Undergraduate Laboratory Supervisor

Gulliver, G.

Department of Computer Science

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Head

Brown, E., B.Sc.(Hons.), *Memorial*, M.Sc. *U. of T.*, Ph.D. *Toronto*,
 LL.B. *Victoria*; Associate Professor

Professors

Banzhaf, W., Dipl. Phys. *Ludwig-Maximilian*, Munich, Dr.rer.nat
Federiciana, Karlsruhe; University Research Professor, Awarded
 2010
 Bartha, M., M.Sc., Ph.D. *József Attila University, Hungary*
 Gillard, P., B.Sc., M.Sc., Ph.D. *Memorial*
 Lu, S., B.Eng. *Peking*, M.Sc., Ph.D. *Waterloo*
 Miminis, G., Dipl. Greek Center of Productivity, B.Sc. *Univ. of*
Ioannina (Greece), M.Sc., Ph.D. *McGill*
 Tang, J., M.Sc. *Iowa*, Ph.D. *Penn. State*

Vidyasankar, K., M.Tech. *I.I.T. Kanpur*, Ph.D. *Waterloo*
 Wang, C.A., B.A. *Peking*, M.Sc., Ph.D. *Alberta*
 Zuberek, W., M.Sc., Ph.D., D.Sc. *Warsaw Tech.*

Associate Professors

Bungay, S., B.Sc., M.Sc. *Memorial*, Ph.D. *Guelph*
 Byrne, R., B.Sc.(Hons.), B.Eng. *Memorial*, M.Sc., Ph.D. *Victoria*
 Chen, Y.P., B.Sc. *Beijing*, Ph.D. *Simon Fraser*
 Deb, A., M.Tech. *Calcutta*, Ph.D. *Iowa*
 Fiech, A., Dipl. Inf. *Dortmund*, Ph.D. *Kansas State*
 Gong, M., B.Eng. *H.E.U.*, M.Sc. *Tsinghua*, Ph.D. *Alberta*
 Mata-Montero, M., B.Sc. *Costa Rica*, M.Sc. *Illinois*, Ph.D. *Victoria*
 Shieh, J., B.Sc. *Beijing*, M.Sc., Ph.D. *Simon Fraser*
 Vardy, A., B.Eng. *Memorial*, M.Sc. *Sussex*, Ph.D. *Carleton*; Joint appointment with Electrical and Computer Engineering, Faculty of Engineering and Applied Science
 Wareham, T., B.Sc.(Hons.), B.A., M.Sc. *Memorial*, Ph.D. *Victoria*
 Yu, G., M.Sc. *Northeastern*, Ph.D. *London*

Assistant Professors

Hoeber, O., B.Sc., M.Sc. *Saskatchewan*, Ph.D. *Regina*
 Kolokolova, A., B.Sc.(Hons.) *Arizona*, M.Sc., Ph.D. *Toronto*
 Peña-Castillo, L., B.Sc. *ITESM, Veracruz, Mexico*, M.Sc. *Alberta*, Ph.D. *Otto-von-Guericke, Magdeburg*; Joint appointment with Department of Biology

Lecturers

Batten, D.L., B.Sc.(Hons.) *Memorial*, M.Sc. *Queen's*
 Gupta, R., B.A. *Agra Univ.*, B.A. *Memorial*, M.S. *Georgia Tech.*

Cross-Appointments

Evermann, J., Dipl. Wirt. Inf. *Muenster*, Ph.D. *British Columbia*; Cross appointment from Faculty of Business Administration
 Meruvia-Pastor, O., B.Eng. *ITESM, Monterrey*, M.Sc. *Alberta*, Dr. Eng. *Otto-von-Guericke, Magdeburg*; Cross appointment from Faculty of Science
 Norvell, T.S., B.Sc.(Hons.) *Dalhousie*, M.Sc., Ph.D. *Toronto*; Cross appointment from Faculty of Engineering and Applied Science
 Parsons, J., B.Comm.(Hons.) *Memorial*, Ph.D. *British Columbia*; Cross appointment from Faculty of Business Administration
 Peters, D.K., B.Eng. *Memorial*, M.Eng., Ph.D. *McMaster*, P.Eng.; Cross appointment from Faculty of Engineering and Applied Science
 Pike, D., B.Math. *Waterloo*, MAM, Ph.D. *Auburn*, FTICA; Cross appointment from Department of Mathematics and Statistics

Systems Manager

Rayment, M., B.Sc. *Memorial*, MS *M.I.U.*

Systems Personnel

Boland, T., B.Sc. *Memorial*, AITD, ITI
 Casey, A., B.Sc. *Memorial*
 Green, K., B.Sc. *Memorial*
 Price, P., B.Sc. *Memorial*
 White, N., B.Sc. *Memorial*, MS *M.I.U.*
 Wissink, M., B.Sc. *New Brunswick*

Laboratory Instructor

Johnstone, S., B.Sc. *Memorial*

Instructional Assistants

Anthony, S., B.Sc. *Memorial*
 Milley, C., B.Sc. *Memorial*
 Verbree-Barnes, I., B.Sc. *Memorial*

Administrative Staff Specialist

Hillier, B.

Department of Earth Sciences

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Head

Hanchar, J.M., B.S. *Memphis*, M.S. *Vanderbilt*, Ph.D. *Rensselaer Polytechnic Institute*, P.Geo.

Professores Emeriti

Hiscott, R.N., B.Sc.(Hons.) *Brock*, Ph.D. *McMaster*, P.Geo.
 Hodych, J.P., M.A., Ph.D. *Toronto*
 Longrich, H., B.Sc. *Millikin*, Ph.D. *Indiana*
 Rochester, M.G., B.A., M.A. *Toronto*, Ph.D. *Utah*, F.R.S.C.; University Research Professor, Awarded 1986

University Research Professors

Aksu, A.E., B.Sc. *Ege*, M.Sc., Ph.D. *Dalhousie*, P.Geo.

Hall, J., B.A. *Oxon*, DIC *London*, Ph.D. *Glasgow*, P.Geo.; University Research Professor, Awarded 2003

Professors

Azmy, K., B.Sc. *Ain Shams*, M.Sc. *Windsor*, Ph.D. *Ottawa*
 Burden, E.T., B.Sc.(Hons.), M.Sc. *Toronto*, Ph.D. *Calgary*, P.Geo.
 Dunning, G.R., B.Sc.(Hons.), M.Sc. *Carleton*, Ph.D. *Memorial*; Winner of the President's Award for Outstanding Research, 1994-1995
 Indares, A., B.Sc. *Grenoble*, M.Sc., Ph.D. *Montreal*
 Jenner, G.A., B.Sc.(Hons.), M.Sc. *Western Ontario*, Ph.D. *Tasmania*, P.Geo.
 Johansen, T., BaSc., M.Sc., Ph.D. *Oslo*; Canada Research Chair in Reservoir Engineering; Cross appointment with Faculty of Engineering and Applied Science
 Kachanoski, G., B.Sc.(Hons.), M.Sc. *University of Saskatchewan*, Ph.D. *University of California (Davis)*; President and Vice-Chancellor
 Rivers, C.J.S., B.Sc. *Belfast*, Ph.D. *Ottawa*, P.Geo.
 Slawinski, M.A., B.Sc., M.Sc., Ph.D. *Calgary*
 Sylvester, P.J., B.S. *Purdue*, Ph.D. *Washington*
 Wilton, D.H.C., B.Sc. *Memorial*, M.Sc. *British Columbia*, Ph.D. *Memorial*, P.Geo.

Associate Professors

Calon, T.J., M.Sc., Ph.D. *Leiden*, P.Geo.
 Hurich, C., B.Sc., M.Sc., Ph.D. *Wyoming*
 Layne, G.D., B.Sc.(Hons.), Ph.D. *Toronto*
 Leitch, A., B.Sc.(Hons.), Ph.D. *Australian National*
 Macquaker, J.H.S., B.Sc.(Hons.), Ph.D. *Bristol*
 Mason, R.A., B.Sc.(Hons.) *London*, Ph.D. *Aberdeen*
 McIlroy, D., B.Sc.(Hons.) *Manchester*, D.Phil. *Oxford*; Canada Research Chair in Petroleum Geoscience and Geotechnology
 Piercey, S.J., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *British Columbia*, P.Geo.; Altius Chair in Mineral Deposits
 Ziegler, S., B.S. *Massachusetts*, Ph.D. *Texas*; Canada Research Chair in Environmental Science

Assistant Professors

Cheng, T., B.E. *Tsinghua University*, M.C.E., Ph.D. *Delaware*
 Farquharson, C., B.Sc.(Hons.) *Edinburgh*, Ph.D. *British Columbia*
 Morrill, P. B.Sc.(Hons.), Ph.D. *Toronto*

Research Associate

Deemer, S., B.S. *Michigan Technological*, M.S. *Wyoming*, Ph.D. *Bergen*
 Welford, J.K., B.Sc.(Hons.) *McGill*, MSc., Ph.D. *British Columbia*

Adjunct Professors

Bentley, S., B.A. Magna Cum Laude, M.S. *University of Georgia*, Ph.D. *SUNY Stony Brook*
 Bodner, R.J., B.S. *Pittsburgh*, M.S. *Arizona*, Ph.D. *Pennsylvania State*
 Brasier, M., B.Sc., Ph.D. *London*, M.A. *Oxon*
 Cabri, L.J., B.Sc.(Hons.) *Witwatersrand*, M.Sc.(Appl.), Ph.D. *McGill*; Emeritus Research Scientist (CANMET, NRC)
 Enachescu, M., M.Sc., Ph.D. *University of Bucharest*
 Mudie, P., B.Sc. *Leicester*, Ph.D. *Dalhousie*
 Sandeman, H., B.Sc., M.Sc. *Memorial*, Ph.D. *Queens University*
 Van Staal, C., B.Sc. *Free University of Amsterdam*, M.Sc. *Free University of Amsterdam and Delft University of Technology*, Ph.D. *University of New Brunswick*

Post-Doctoral Fellows

Blamey, N., B.Sc. (Hons), M.Sc. *Rhodes University*, Ph.D. *New Mexico Tech*
 Callow, R., M.E.Sc., D.Phil. *University of Oxford*
 Danek, T., M.Sc, Ph.D., *University of Science and Technology, Krakow*
 Gouiza, M., B.Sc. *Faculty of Sciences and Techniques (FST)*, M.Sc. *Louis Pasteur University*, Ph.D *Vrije Universiteit Amsterdam*
 Lagenière, J., B.Sc. *University of Quebec in Rimouski*, M.Sc. *Sherbrooke*, Ph.D. *University of Quebec in Montreal*
 Lelièvre, P., B.Sc. *Acadia*, M.Sc., Ph.D. *University of British Columbia*
 Zhiglova, P., B.Sc. (Hons.) *St. Petersburg State Technical University*, M.Sc., Ph.D. *Rensselaer Polytechnic Institute*

Manager of Academic Programs

Miskell, M., B.Sc.(Hons.) *Memorial*

Research Computing SpecialistSmith, D., B.A., B.Sc.(Hons.) *Memorial***Laboratory Instructor**Hicks, R., M.Sc. *Dalhousie***Department of Mathematics and Statistics**

www.mun.ca/math/

HeadRadford, C., B.Sc., Ph.D. *Sydney***Professores Emeriti**

Booth, P.I., B.Sc., M.Sc., Ph.D., *Hull*; Winner of the Dean of Science Distinguished Scholar Medal, 1996
 Brunner, H., M.A., Ph.D., E.T.H. *Zurich*; University Research Professor, Awarded 1994; Canadian Mathematical Society's David Borwein Distinguished Career Award, Awarded 2008
 Heath, P.R., B.Sc., Ph.D. *Hull*, DBS *Durham*, MTS *Queen's*
 Shawyer, B.L.R., B.Sc., Ph.D. *St. Andrews*

Honorary Research ProfessorParmenter, M.M., B.Sc. *Toronto*, Ph.D. *Alberta***Mathematics****Professors**

Bahturin, Y., D.Sc., Ph.D. *Moscow*, University Research Professor, Awarded 2002
 Goodaire, E.G., B.Sc. *Toronto*, Ph.D. *British Columbia*
 Kocabiyik, S., B.Sc., M.Sc. *Middle East Tech.*, Ph.D. *Western Ontario*; Petro-Canada Young Innovators Award, 2000
 Pike, D., B.Math. *Waterloo*, MAM, Ph.D., *Auburn*, FTICA; Cross appointment to Department of Computer Science
 Shalaby, N.A.I., M.A. *York*, Ph.D. *McMaster*
 Summers, D., B.Sc., Ph.D. *London*, F.I.M.A. (U.K.), FRSC; University Research Professor, Awarded 2000
 Xiao, J., M.Sc. *Hunan*, Ph.D. *Peking*; University Research Professor, Awarded 2011
 Zhao, X., B.S., M.S. *Northwest*, Ph.D. *Academia Sinica*; University Research Professor, Awarded 2008
 Zhou, Y., B.Sc. *Hunan Normal*, M.Sc. *Beijing Normal*, Ph.D. *British Columbia*

Associate Professors

Booth, I., B.Sc. *Memorial*, M.Sc., Ph.D. *Waterloo*; Cross appointment to Department of Physics and Physical Oceanography
 Foster, A., B.Sc., Ph.D. *Dalhousie*, M.Math. *Waterloo*; Associate Dean (Administration and Undergraduate)
 Haynes, R.D., B.Sc. *Memorial*, M.Sc., Ph.D. *Simon Fraser*
 Kondratieva, M., M.Sc. *Moscow Inst. of Electronics & Math*, Ph.D. *Tomsk State*; Joint appointment with Faculty of Education
 Kotchetov, M., M.Sc. *Moscow State (Lomonosov)*, Ph.D. *Memorial*, Cand. Sc. *Moscow State*
 Mantyka, S., B.A., M.B.A. *Sask.*, M.Math., Ph.D. *Waterloo*
 Merkli, M., Diploma in Theoretical Physics, *EPF Lausanne*, Ph.D. *Toronto*; Winner of the President's Award for Outstanding Research 2010-2011
 Ou, C.H., B.A. *Peking*, Ph.D. *Hong Kong*
 Rees, R.S., B.Sc., B.Med.Sc., Ph.D. *Queen's*, FTICA; Hall Medal, 1999
 Suvak, J.A., B.S. *St. Martin's College*, M.S., Ph.D. *Arizona*
 Yuan, Y., B.Sc. *Wuhan*, M.Sc. *Central South Univ. of Tech.*, Ph.D. *Western Ontario*; UFA 2004

Assistant Professors

Alam, J., B.Sc., M.Sc. *Chittagong*, M.Sc., *Alberta*, Ph.D., *McMaster*
 Baird, T.J., B.Sc. *Queen's*, Ph.D. *Toronto*
 Dyer, T.D., B.Sc.(Hon.) *Memorial*, M.Sc., Ph.D. *Simon Fraser*
 Kunduri, H., B.Sc.(Hons.) *Toronto*, M.Math., Ph.D. *Cambridge*
 Martinez-Pedroza, E., Dipl. Math. *Los Andes*, M.Sc., Ph.D. *Oklahoma*
 Niu, Z., B.Sc., M.Sc. *Wuhan*, Ph.D. *Toronto*
 Usefi, H., *AmirKabir*, M.Sc. *IASBS*, Ph.D. *Western Ontario*
 Ye, D., B.Sc. *Shandong*, M.Sc. *Zhejiang*, Ph.D. *Case Western Reserve*

Visiting Assistant ProfessorSullivan, S.P., B.Sc., Ph.D. *Memorial***Adjunct Professor**Sadov, S., M.Sc. *Moscow Institute of Electronics and Math*, Ph.D.*Keldysh Institute for Applied Math***Cross-Appointment**Finnis, J., B.Sc. *Guelph*, Ph.D. *Colorado*; Assistant Professor; Cross appointment from Department of Geography**Laboratory Instructor**O'Reilly, G., B.Sc. *Memorial***Statistics****Professor**Sutradhar, B.C., B.Sc. *Dacca*, M.Sc. *Dacca and Western Ontario*, Ph.D. *Western Ontario*; University Research Professor, Awarded 2004**Associate Professors**

Fan, Z., B.Sc., M.Sc. *Shandong*, Ph.D. *Gottingen*
 Loreda-Osti, J.C., B.Sc., M.Sc. *Universidad Autonoma*, Ph.D. *Dalhousie*, Graduate Officer
 Oyet, A., B.Sc., M.Sc. *Fed. U. of Tech.*, Ph.D. *Alberta*
 Wang, H., B.Sc. *Beijing Normal*, Ph.D. *Regina*

Assistant Professors

Abarin, T., B.Sc., M.Sc. *Shiraz*, Ph.D. *Manitoba*
 Variyath, A., B.Sc., *Calicut*, M.Sc. *Kerala Agricultural*, Post Graduate Diploma *Indian Statistical Institute*, Ph.D. *Waterloo*

Adjunct Professors

Cadigan, N., B.Sc., *MAS Memorial*, Ph.D. *Waterloo*
 Sneddon, G., B.Sc.(Hon.) *Acadia*, M.Sc., Ph.D. *Dalhousie*

Cross-Appointments

Gadag, V., B.Sc., M.Sc. *Karnatak*, M.Phil., Ph.D. *Poona*; Professor of Biostatistics, Cross appointment from Department of Health Statistics and Health Information Systems
 Yi, Y., B.Sc., *Hunan Normal*, M.Sc., *Changsha College*, M.Sc., Ph.D. *Manitoba*; Assistant Professor of Biostatistics; Cross appointment from Division of Community Health and Humanities

Consultants for Master of Applied Statistics Program

Cadigan, N., B.Sc., M.A.S. *Memorial*, Ph.D. *Waterloo*; Department of Fisheries and Oceans, St. John's
 Lye, L.M., B.Sc.(Hons.) *Bolton Inst.*, Ph.D. *Manitoba*, P.Eng.; Faculty of Engineering and Applied Science, Memorial University of Newfoundland
 Schneider, D.C., B.Sc. *Duke*, Ph.D. *SUNY, Stony Brook*; Ocean Sciences Centre, NICOS

Undergraduate OfficerJohnson, H., B.Sc.(Hons.), B.Ed. *Memorial***Administrative Staff Specialist**

English, R.

Department of Ocean Sciences

www.mun.ca/osc/Home/

HeadFletcher, G.L., B.Sc. *British Columbia*, Ph.D. *California*; Professor Emeritus**Professores Emeriti**

Burton, D., B.Sc. *Wales*, Ph.D. *London*; Department of Biology
 Khan, R.A., B.Sc., M.Sc., Ph.D. *Toronto*; Department of Biology

Honorary Research ProfessorThompson, R.J., B.Sc. *Bristol*, Ph.D. *Leicester***Professors**

Abrahams, M., B.Sc. *Western*, M.Sc. *Queen's*, Ph.D. *Simon Fraser*, Dean of Science
 Deibel, D.R., B.Sc. *Bucknell*, Ph.D. *Georgia*; Winner of the President's Award for Outstanding Research, 1990; Professor (Research); Cross appointment with Department of Biology
 Driedzic, W.R., B.Sc. *York*, M.Sc. *Toronto*, Ph.D. *British Columbia*; Tier I Canada Research Chair in Marine Bioscience; Cross appointment with Department of Biology
 Fleming, I.A., B.Sc. *Queen's*, M.Sc. *Simon Fraser Univ.*, Ph.D. *Univ. of Toronto*; Cross appointment with Department of Biology
 Gamperl, A.K., B.Sc., M.Sc. *Guelph*, Ph.D. *Dalhousie*; Cross appointment with Department of Biology
 Parrish, C.C., B.Sc. *Wales*, Ph.D. *Dalhousie*; Winner of President's Award for Outstanding Research 1995-1996; Professor (Research); Cross appointment with Department of Biology;

Academic Program Officer

Rivkin, R.B., B.Sc., M.Sc. *City College, New York*, Ph.D. *Rhode Island*; University Research Professor, Awarded 2007
 Schneider, D.C., B.Sc. *Duke*, Ph.D. *SUNY, Stony Brook*; Cross appointment with Department of Biology
 Snelgrove, P.V.R., B.Sc. *Memorial*, M.Sc. *McGill*, Ph.D. *Massachusetts/Woods Hole*; Tier 2 Canada Research Chair in Boreal and Cold Ocean Systems; Joint appointment with Department of Biology
 Wroblewski, J.S., B.Sc. *Illinois*, M.Sc., Ph.D. *Florida State*; Professor (Research); Cross appointment with Department of Biology

Associate Professors

McGaw, I., B.Sc., Ph.D. *Wales-Bangor*; Cross appointment with Department of Biology
 Mercier, A., B.Sc. *Sherbrooke*, M.Sc., Ph.D. *Québec à Rimouski*; Cross appointment with Department of Biology
 Rise, M., M.Sc. *Boston College*, Ph.D. *Victoria*; Tier II Canada Research Chair in Marine Biotechnology; Cross appointment with Department of Biology

Assistant Professor

Gagnon, P., B.Sc., Ph.D. *Laval*; Cross appointment with Department of Biology

Research Associate

Xu, C., B.Sc., M.Sc., Ph.D. *Lanzhou*

Adjunct Professors

Bowman, S., Ph.D. *University of Warwick, UK*; The Atlantic Genome Centre, Halifax, Nova Scotia
 Bradbury, I., Ph.D. *Dalhousie*; Research Scientist, Department of Fisheries and Oceans
 Cote, D., M.Sc. *Wilfrid Laurier*, Ph.D. *Waterloo*; Terra Nova National Park
 Dixon, B., B.Sc. *Wilfrid Laurier*, M.Sc. *Guelph*, Ph.D. *Waterloo*
 Hale, M., B.Sc., Ph.D. *Flinders*; Senior Lecturer, University of Portsmouth
 McKenzie, C., B.Sc., Ph.D. *Texas A&M*; Research Scientist, Department of Fisheries and Oceans
 O'Reilly, P., B.Sc., M.Sc. *Alberta*, Ph.D. *Dalhousie*; Research Scientist, Department of Fisheries and Oceans, Nova Scotia
 Pepin, P., B.Sc. *McGill*, Ph.D. *Dalhousie*; Northwest Atlantic Fisheries Centre, Department of Fisheries and Oceans
 Trippel, E., B.Sc., M.Sc. *Toronto*, Ph.D. *Guelph*; Research Scientist, Department of Fisheries and Oceans, New Brunswick.

Cross-Appointed Faculty

Shahidi, F., B.Sc. *Shiraz*, Ph.D. *McGill*, University Research Professor, Awarded 1998; Professor, Department of Biochemistry
 Volkoff, H., B.Sc. *Pierre et Marie Curie University*, M.Sc. *University of Aix-Marseille III*, Ph.D. *Clemson University*; Associate Professor, Department of Biology

Post-Doctoral Fellows

Bassett, D., B.Sc., M.Sc., Ph.D. *University of Auckland, New Zealand*
 Booman, M., M.Sc. *Wageningen University, The Netherlands*, Ph.D. *Groningen*
 Evans, M., B.Sc. *British Columbia*, M.Sc. *York*, Ph.D. *Western Ontario*
 Hori, T., B.Sc., M.Sc. *Federal University of São Carlos*, Ph.D. *Memorial*
 Lowen, B., B.Sc. *University of Aberdeen, Scotland*, M.Sc. *University of Stirling, Scotland*, Ph.D. *Memorial*
 Mitchell, J., B.Sc. *Queens*, M.Sc. *Western Ontario*, Ph.D. *Simon Fraser*
 Santos, J. B., Ph.D. *University of Leon*
 Wei, C.-L., B.Sc. *National Chung Hsing University*, M.Sc., Ph.D. *Texas A & M*

Research Assistants

Jones, D., B.Sc. *Saskatchewan*
 Shears, M., B.Sc. *New Brunswick*, Ph.D. *Memorial*
 Short, C., B.Sc., M.Sc. *Memorial*
 Vickers, C., Dip.Tech. *Marine Institute*

Administrative Staff Officer

Wheeler, D.

Research Marketing Manager

Nichols, D., B.A. *Memorial*

Department of Physics and Physical Oceanography

www.mun.ca/physics/main/

Interim Head

Whitehead, J.P., B.Sc. *St. Andrew's*, Ph.D. *Alberta*; Professor

Professores Emeriti

Cho, C.W., B.Sc. *Seoul*, M.A., Ph.D. *Toronto*
 Clouter, M.J., M.Sc. *Memorial*, Ph.D. *Toronto*; University Research Professor, Awarded 2000
 Gien, T.T., Lic. ès Sc. *Saigon*, M.Sc., Ph.D. *Ohio*; University Research Professor, Awarded 2001
 Rochester, M.G., M.A. *Toronto*, Ph.D. *Utah*, FRSC; University Research Professor, Awarded 1986; Cross appointment from Department of Earth Sciences

Professors

Afanassiev, I., Ph.D. *P.P. Shirshov Institute of Oceanology, Russian Acad.*, M.Sc. *Moscow Physical-Technical University*
 de Young, B., B.Sc., M.Sc. *Memorial*, Ph.D. *British Columbia*; Appointed to Robert A. Bartlett Professorship in Oceanography; Winner of the President's Award for Outstanding Research, 1997-1998; Cross appointment with Ocean Sciences Centre
 Lagowski, J.B., B.Sc. *Manitoba*, M.Sc., Ph.D. *Toronto*
 Lewis, J.C., B.Sc., M.Sc. *Carleton*, Ph.D. *Toronto*
 Morrow, M.R., B.Sc. *McMaster*, M.Sc., Ph.D. *British Columbia*
 Plumer, M., B.Sc. *St. Francis Xavier*, M.Sc. *Dalhousie*, Ph.D. *Toronto*
 Quirion, G., B.Sc., M.Sc., Ph.D. *Sherbrooke*

Associate Professors

Andrews, G.T., B.Sc., M.Sc., Ph.D. *Memorial*
 Beaulieu, L., B.Sc. *University of Ottawa*, M.Sc., Ph.D. *Dalhousie*; Petro Canada Young Innovators Award, Awarded 2008
 Chen, Q., B.Sc. *Shanghai Jiao Tong University China*, M.Sc., Ph.D. *Shanghai Institute of Optics and Fine Mechanics, China* (CRC Photonics); Cross appointment with the Faculty of Engineering and Applied Science
 Curnoe, S.H., B.Sc. *Toronto*, Ph.D. *British Columbia* (NSERC UFA); Winner of the President's Award for Outstanding Research, 2005-2006
 Demirov, E., M.Sc., Ph.D. *University of St. Petersburg, Russia*
 Poduska, K., B.A. *Carleton College*, M.S., Ph.D. *Cornell*
 Tarasov, L., B.Sc. *Guelph*, M.Sc., Ph.D. *Toronto*; CRC Glacial Dynamics Modelling
 Yethiraj, A., B.Sc. *Bombay (St. Xavier's College)*, M.Sc. *Houston*, Ph.D. *Simon Fraser*; Winner of the President's Award for Outstanding Research 2008-2009
 Zedel, L., B.Sc., M.Sc. *Victoria*, Ph.D. *British Columbia*; Petro-Canada Young Innovators Award, Awarded 2001

Assistant Professors

Munroe, J.R., B.Math.(Hons.), M.Math. *Waterloo*, Ph.D. *Alberta*
 Saika-Voivod, I., B.Sc.(Hons.), Ph.D. *University of Western Ontario*

Adjunct Professors

Barkanova, S., B.Sc., M.Sc. *University of Latvia*, Ph.D. *University of Manitoba*
 Bourgault, D., M.Sc. *Quebec at Rimouski*, Ph.D. *McGill*
 Han, G., B.S., M.S., Ph.D. *Hohai University*

Cross-Appointments

Aleksejevs, A., B.Phys.(Hons.), M.Phys. *Latvia*, Ph.D. *Manitoba*
 Booth, I., B.Sc.(Hons.) *Memorial*, M.Sc., Ph.D. *University of Waterloo*; Cross appointment from Department of Mathematics and Statistics
 Booth, V., B.Sc. *Victoria*, M.Sc. *Waterloo*, Ph.D. *Toronto*; Cross appointment from Department of Biochemistry

Administrative Officer

Corbett, D.

Academic Program Officer

Goulding, R., B.Sc. *Prince Edward Island*, M.Sc. *Western Ontario*, Ph.D. *New Brunswick*

Laboratory Co-ordinator

Deacon, C.G., Ph.D. *Birmingham*, M.B.A. *Memorial*

Department of Psychology

www.mun.ca/psychology/index.php

Head

Neath, I., B.A. *Rice University*, M.S., Ph.D. *Yale*; Professor

Honorary Research Professors

Anderson, R.E., B.A. *Wisconsin*, Ph.D. *California*

Evans, J.H., B.A., Ph.D. *Wales*

McKim, W.A., B.A. *Memorial*, M.A. *Toronto*, Ph.D. *Western Ontario*

Professor Emeritus

Harley, C.W., B.S. *San Francisco State*, M.S., Ph.D. *Oregon*;

Cross appointment with Faculty of Medicine

Professors

Adamec, R.E., B.A. *Middlebury*, M.A., Ph.D. *McGill*; University Research Professor, Awarded 1993; Cross appointment with Faculty of Medicine

Adams, R.J., B.A. *Concordia*, Ph.D. *McMaster*; Cross appointment with Faculty of Medicine

Button, C.M., B.Sc., M.Sc. *Memorial*, Ph.D. *Rhode Island*
 Courage, M.L., B.A. *Memorial*, M.Sc. *Alberta*, Ph.D. *Memorial*;
 Cross appointment with Faculty of Medicine; University Research Professor, Awarded 2010

Grant, V.L., B.A., M.A. *Toronto*, Ph.D. *Memorial*

Malsbury, C., B.A. *Northwestern*, M.A., Ph.D. *McGill*; Cross appointment with Faculty of Medicine

Martin, G.M., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *Australian National University*

Montevicchi, W.A., B.A. *Northeastern*, M.Sc. *Tulane*, Ph.D. *Rutgers*; Cross appointments to Ocean Sciences Centre and Department of Biology; University Research Professor, Awarded 2005

Penney, C., B.Sc.(Hons.) *McGill*, M.A., Ph.D. *Toronto*

Penney, R., B.A.(Hons.) *Memorial*, M.A., Ph.D. *Michigan State*, M.F.T. *Hahnemann*; Cross appointment to Counselling Centre

Peterson, C., B.S. *Washington*, Ph.D. *Minnesota*; University Research Professor, Awarded 2006

Sherrick, M.F., B.A., M.A., Ph.D. *Cincinnati*; Winner of the President's Award for Distinguished Teaching, 1992-1993

Shubert Walker, L. J., B.A. *Jamestown College*, M.A., Ph.D. *University of North Dakota*

Skinner, D.M., B.Sc.(Hons.) *Memorial*, Ph.D. *Toronto*

Storey, A.E., B.Sc., M.A. *Manitoba*, Ph.D. *Rutgers*

Surprenant, A.M., B.A. *New York*, M.S., Ph.D. *Yale*

Associate Professors

Arlett, C., B.Sc. *Leicester*, M.A., Ph.D. *British Columbia*

Fowler, K.F., B.Sc.(Hons.), Ph.D. *Memorial*

Grant, M., B.A., M.A. *Toronto*

Maddigan, R.I., B.A.(Hons.), M.Sc. *Memorial*; Co-ordinator, First Year

Snook, B., B.A. *Memorial*, M.Sc., Ph.D. *Liverpool*

Assistant Professors

Blundell, J.J., B.Sc.(Hons.) *Dalhousie*, M.Sc., Ph.D. *Memorial*;
 Cross appointment with the Faculty of Medicine

Drover, J.R., B.Sc.(Hons.), M.Sc., Ph.D. *Memorial*

Francis, S.E., B.A. *State University of New York at Albany*, M.A., Ph.D. *Hawaii*; Cross appointments to the Faculty of Medicine and the Faculty of Education

Hadden, K., B.A.(Hons.) *York*, M.A., Ph.D. *Saskatchewan*; Cross

appointment to Counselling Centre

Hallett, D., B.A.(Hons.), M.A., Ph.D. *University of British Columbia*

Hannah, E.R., B.Sc. *Buenos Aires*, M.A. *SUNY at Stony Brook*

Hourihan, K.L., B.Sc.(Hons.) *Dalhousie*, M.A., Ph.D. *Waterloo*

Mercer, M., B.Sc.(Hons.), M.Sc., Ph.D. *Memorial*

Mezo, P.G., B.Sc.(Hons.) *Toronto*, M.A., Ph.D. *Hawaii*; Cross appointments to the Faculty of Medicine and the Faculty of Education

Thorpe, C., B.Sc.(Hons.) *Memorial*, M.A., Ph.D. *University of British Columbia*

Walling, S.G., B.Sc. *Calgary*, Ph.D. *Memorial*

Walsh, C.J., B.Sc.(Hons.) *Memorial*, M.A. *Toronto*, Ph.D. *Memorial*

Adjunct Professors

Garthe, S., B.Sc. *Hamburg*, M.Sc., Ph.D. *Kiel*

Hedd, A., B.Sc.(Hons.), M.Sc. *Memorial*, Ph.D. *University of Tasmania*

Hubbard, J., B.A.(Hons.) *Western Ontario*, M.A., Ph.D. *York*

Koen-Alonso, M., Ph.D. *Buenos Aires*

Newman, K., B.A. *Bishop's University*, M.A. *Brock*, Ph.D. *New Brunswick*

Perry, E., B.A.(Hons.) *Guelph*, M.Sc., Ph.D. *Memorial*

Setliff, A.E., B.A., M.A., *Guelph*, Ph.D. *Memorial*

Vernescu, R.M., B.A. *York*, M.Sc., Ph.D. *Memorial*

Cross Appointments

Canning, P.M., B.A.(Hons.) *UPEI*, M.A., Ph.D. *Univ. of Windsor*;
 Cross appointment from Faculty of Education

Corbett, D., B.A. *Dalhousie*, M.Sc. *Memorial*, Ph.D. *Concordia*;

Cross appointment from Faculty of Medicine

Cornish, P., B.Sc. *Trent University*, M.A., Ph.D. *Saskatchewan*;

Cross appointment from Counselling Centre

Harris, G.E., B.A.(Hons.) *Saint Mary's*, M.Sc. *Calgary*, Ph.D.

Alberta; Cross appointment from Faculty of Education

Heath, O., B.A. *McGill*, M.Sc., Ph.D. *Memorial*; Cross appointment from Counselling Centre

Hurley, G., B.A. *Colorado College*, M.S., Ph.D. *Missouri Columbia*;

Cross appointment from Counselling Centre

Winger, P.D., B.Sc. (Co-op) *Dalhousie*, M.Sc., Ph.D. *Memorial*;

Cross appointment from Fisheries and Marine Institute

Administrative Staff Specialist

Young, S., B.B.A. *Lakehead*, M.B.A. *Memorial*

Laboratory Instructors

Brown, A., B.A.(Hons.), M.Sc. *Memorial*

Milway, S., B.A. *Concordia*

Instructional Assistant

Gaborko, L., B.Sc. *Trent*

Research Computing Specialist

Earle, A., B.Sc. *Memorial*

Science 1150/1151

Assistant Professor

Meruvia-Pastor, O., B.Eng. *ITESM Monterrey*, M.Sc. *Alberta*, Ph.D. *Otto-von-Guericke Magdeburg*

Laboratory Instructor

Huelin, S., B.Sc., M.Sc., B.Ed. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 Faculty Description

The Faculty of Science encompasses nine academic departments: Biochemistry, Biology, Chemistry, Computer Science, Earth Sciences, Mathematics and Statistics, Ocean Sciences, Physics and Physical Oceanography, and Psychology. Each offers programs leading to either a general or honours degree. A number of specialized and joint (double major) programs are also offered, as well as Bachelor of Science degree programs delivered by the Departments of Geography and Economics. Selected students can complete the first two years of Acadia University's Bachelor of Science in Nutrition (Dietetics option) at Memorial University of Newfoundland. In addition to educational programs, research is a most important aspect of the Faculty of Science. As such, the Faculty is in a position to generate new knowledge by the pursuit of high quality research and to foster economic development through cooperative research and technology transfer with the private sector. The Faculty of Science is the scientific training ground for all undergraduates at the University. Memorial University of Newfoundland's science graduates are in demand by science-based industries throughout the country. Our Faculty excels in research and in its commitment to effective teaching and delivery of quality educational programs.

Additional information regarding the Faculty of Science is available at www.mun.ca/science/.

Information regarding the Centre for Earth Resources Research (CERR) and the Ocean Sciences Centre (OSC) is available under **General Information, Centre for Earth Resources Research (CERR)**, and **General Information, Ocean Sciences Centre**, respectively.

3 Bachelor of Science in Nutrition (Dietetics Option), Memorandum of Understanding (MOU) between Memorial University of Newfoundland and Acadia University

Program Coordinator: B. Walters, Department of Biochemistry

3.1 General Information

Under the terms of a Memorandum of Understanding (MOU) between Memorial University of Newfoundland and Acadia University, selected students are able to complete the first two years of Acadia University's Bachelor of Science in Nutrition (Dietetics option) at Memorial University of Newfoundland and complete the final two years of the program at Acadia University. Selection for this program is competitive and is limited to ten qualified students each year. Upon successful completion of all degree requirements students will graduate with the degree of Bachelor of Science in Nutrition (Dietetics option) from Acadia University.

For detailed information about the Memorial University of Newfoundland component of the program, and for information about the selection process and deadlines, contact the Office of the Dean of Science by e-mail at science@mun.ca or by telephone at (709) 864-8153 or (709) 864-8154.

For detailed information about the Acadia University program, contact Acadia University in writing to the School of Nutrition and Dietetics, Acadia University, P.O. Box 68, 12 University Avenue, Wolfville, Nova Scotia, Canada B4P 2R6, or by telephone at (902) 585-1366, or by e-mail at nutr@acadiau.ca, or through the website at nutrition.acadiau.ca/.

3.2 Admission Regulations

1. Students who are interested in pursuing this program must first complete 30 credit hours from the prescribed courses from the **Memorial University of Newfoundland Courses** list below.
2. In the Winter semester, normally at the end of a student's first year at Memorial University of Newfoundland, a selection competition will be held. Only those students who are selected will be eligible to continue into the second year of the program at Memorial University of Newfoundland.
3. The selection process will be jointly administered by Memorial University of Newfoundland and by Acadia University.
4. Academic achievement will be a significant criterion used for selection and students may be asked to attend an interview.
5. The letter of acceptance will give the selected applicant 14 days from the date of the letter in which to confirm acceptance of their place in the program.
6. To continue on to Acadia University, the selected students must successfully complete the 17 courses, 51 credit hours from the **Memorial University of Newfoundland Courses** and the 3 courses, 9 credit hours from the **Acadia University Courses** lists below required by the MOU with a minimum 60% overall average. A grade of 60% (Acadia University equivalent grade of C-) is required in each of the three individual Nutrition courses taken through Open Acadia at www.openacadia.ca, the distance education unit of Acadia University.

3.3 Continuance Regulations

Students who successfully complete the first two years of the program at Memorial University of Newfoundland as described below will transfer to Acadia University where the final two years will be completed.

3.3.1 Memorial University of Newfoundland Courses

Under the terms of the MOU, the following 17 courses, 51 credit hours at Memorial University of Newfoundland must be completed with a minimum 60% overall average before being admitted to the third year of Acadia University's program:

1. Biology 1001
2. Chemistry 1010, 1011 (or Chemistry 1200, 1001)
3. Chemistry 2440
4. English 1080, 1110 (or equivalent)
5. Mathematics 1090 and 1000 (or Mathematics 1000 and one elective)
6. Pharmacy 2002, 2003, and 2004 or Biochemistry 2101 (only students who are selected for this program will be permitted to register for these Pharmacy courses)
7. Psychology 1000, 1001
8. Statistics 2500, 2501
9. Two Arts electives

3.3.2 Acadia University Courses

To continue to the third year of Acadia University's program, the selected students must successfully complete 20 courses, 60 credit hours comprised of the 17 courses, 51 credit hours from the **Memorial University of Newfoundland Courses** list above and the 3 courses, 9 credit hours from the **Acadia University Courses** list below. This is required by the MOU and students must obtain a minimum 60% overall average. A grade of 60% (Acadia University equivalent grade of C-) is required in each of the three individual Nutrition courses taken through Open Acadia at www.openacadia.ca, the distance education unit of Acadia University.

Nutrition 1513
Nutrition 2503
Nutrition 2513

3.3.3 Internship

In order to be eligible to apply for internship placements administered by the Acadia Dietetic Internship Program, students must obtain a grade of at least B- (70-72) in the two courses Nutrition 2503 and 2513. This requirement does not apply for other non-Acadia internships for which all students are eligible to apply.

3.3.4 Programs Tables

The following tables present a schedule for completing the course requirements at Memorial University of Newfoundland.

For Students Who Complete Mathematics 1090 in Their First Semester

Term	Suggested Courses
Fall Semester 1	Biology 1001 Chemistry 1010 or 1200 English 1080 Mathematics 1090 Psychology 1000
Winter Semester 2	Chemistry 1011 or 1001 English 1110 (or equivalent) Mathematics 1000 NUTR 1513 through Acadia Online at www.openacadia.ca Psychology 1001
Fall Semester 3	Arts Elective Chemistry 2440 NUTR 2503 through Acadia Online at www.openacadia.ca Pharmacy 2002 Statistics 2500
Winter Semester 4	Arts Elective NUTR 2513 through Acadia Online at www.openacadia.ca Pharmacy 2004 (or Biochemistry 2101) Pharmacy 2003 Statistics 2501

For Students Who Complete Mathematics 1000 in Their First Semester

Term	Suggested Courses
Fall Semester 1	Biology 1001 Chemistry 1010 English 1080 Mathematics 1000 Psychology 1000
Winter Semester 2	Chemistry 1011 English 1110 (or equivalent) NUTR 1513 through Acadia Online at www.openacadia.ca Psychology 1001 Statistics 2500
Fall Semester 3	Arts Elective Chemistry 2440 NUTR 2503 through Acadia Online at www.openacadia.ca Pharmacy 2002 Statistics 2501
Winter Semester 4	Arts Elective Elective NUTR 2513 through Acadia Online at www.openacadia.ca Pharmacy 2004 (or Biochemistry 2101) Pharmacy 2003

Notes: 1. Statistics 2501 is offered on campus in the Fall semester and normally is offered only by distance education in the Winter semester.
2. While students are strongly encouraged to complete Nutrition 1513 in the first year, they can substitute an Arts elective for Nutrition 1513 in the first year but must then complete Nutrition 1513 in the second year.
3. All three Open Acadia courses must be completed prior to starting courses at Acadia.

4 Joint Programs

Course descriptions are found at the end of the Faculty of Science section under **Course Descriptions**.

The following joint programs are offered by Departments in the Faculty of Science, and the regulations for each program are joint Departmental Regulations. For convenience of reference the joint programs are listed below in alphabetical sequence: Joint Honours, Joint Majors, and Joint Options.

4.1 Joint Honours

4.1.1 Applied Mathematics and Chemistry Joint Honours (B.Sc. Only)

The following courses are required:

1. English 1080 and English 1110 (or equivalent).

2. A computing course. Computer Science 1510 is recommended.
3. Biochemistry 2101.
4. Physics 1050 (or 1020) and 1051.
5. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 3000, 3001, 3132, 3161, 3202, 3210, 3260, 4160.
6. Chemistry 1050 and 1051 (or 1010, 1011 and 1031), 2100, 2210, 2301, 2302, 2400, 2401, 3110, 3210 or 3211, 3303, 3500.
7. Six additional credit hours chosen from courses numbered 3000 or higher that are offered by the Department of Chemistry.
8. Mathematics 419A/B or Chemistry 490A/B.
9. A sufficient number of elective courses to bring the degree up to a total of 120 credit hours.

4.1.2 Applied Mathematics and Physics Joint Honours

The following courses are required:

1. English 1080 and English 1110 (or equivalent).
2. A computing course. Computer Science 1510 is recommended.
3. Six credit hours in a science other than Mathematics or Physics (if Computer Science is chosen then Computer Science 1510 may be counted as three of these hours).
4. Mathematics 1000, 1001, 2000, 2050, 2051, 3000, 3001, 3132, 3202, 3210, 3260.
5. At least one of Mathematics 2130 or Mathematics 2320.
6. Physics 1050 (or 1020), 1051, 2053, 2055, 2750 (or 2056), 2820, 3220, 3230, 3400, 3500, 3750.
7. Three additional credit hours chosen from courses numbered 3000 or higher that are offered by the Department of Physics and Physical Oceanography.
8. Mathematics 3161 and Mathematics 4160, or Physics 3820 and Physics 4820.
9. Physics 490A/B or Mathematics 419A/B.
10. Twelve additional credit hours chosen from courses numbered 4000 or higher that are offered by the Department of Mathematics and Statistics or the Department of Physics and Physical Oceanography. At least 3 credit hours must be selected in each of Applied Mathematics and Physics.
11. A sufficient number of elective courses to bring the degree to a total of 120 credit hours.

The topic for the Honours project or thesis, Mathematics 419A/B or Physics 490A/B must be chosen with the prior approval of both departments.

4.1.3 Biochemistry and Cell Biology Joint Honours

Students must have at least an overall average of 65% in English 1080 and 1110 (or equivalent), Mathematics 1000 and 1001, Biology 1001 and 1002, Chemistry 1050 and 1051 (or equivalent), Physics 1050 (or 1020) and 1051.

The following courses, including prerequisites where applicable, will be required.

1. Biochemistry 2101, 3105, 3106, 3107, 3108, either 4210 or 4211, 12 credit hours chosen from 4002, 4101, 4102, 4103, 4104, 4105, 4200, 4201, 4230-4249.
2. Biology 2060, 2250, 2600, 2900, 3050 and 9 credit hours chosen from 3500, 3530, 3620, 4000, 4200, 4241. In addition, further Biology courses at the 2000, 3000, or 4000 level must be selected by the student to make up a minimum of 42 credit hours in Biology including Biology 1001 and 1002 but not including Biology 499A or 499B.
3. Either Medicine 310A/B, or Biology 3401 plus one of Biology 3402, 4245 or 4404.
4. Chemistry 2100, 2300 or 2301, 2400, 2401; either 3410 or 3411.
5. Statistics 2550 or equivalent.
6. An Honours Dissertation (Biology 499A/499B or Biochemistry 499A/499B).
7. Other courses to complete the prescribed minimum of 135 credit hours in courses for the Joint Honours Degree.

Note: *Students may count only one of the two courses, Biochemistry 4105 or Biology 4200, for credit in this program.*

The topic of the Honours dissertation must be chosen with the approval of both Departments. A faculty member of either Department may act as supervisor.

Seventy-eight credit hours in Biology, Biochemistry and Chemistry courses beyond the first-year level from those listed in the program shall contribute to those in which a grade of "B" or an average of 75 or higher is required. Medicine 310A/B counts as Biochemistry for these seventy-eight credit hours.

4.1.4 Biochemistry and Chemistry Joint Honours

The following courses (or their equivalents) are required:

1. Chemistry 1050 and 1051 (or Chemistry 1010, 1011 and 1031) or their equivalents, Mathematics 1000 and 1001, Physics 1050 and 1051, 6 credit hours in first year English courses. Biology 1001 and 1002 are highly recommended.
2. Mathematics 2000 and 2050.
3. Chemistry 2100, 2210, 2300 or 2301, 2302, 2400, 2401, 3110, 3211, 3303, 3410, 3411, 3500, and 6 further credit hours in Chemistry courses at the 4000 level.
4. Biochemistry 2100, 2101, 3105, 3106, 3107, 3108, Medicine 310A/B, either Biochemistry 4210 or 4211, 9 credit hours chosen from Biochemistry 4002, 4101, 4102, 4103, 4104, 4105, 4200, 4201, 4220, 4230-4249.

Note: *Only one of Biochemistry 4105, 4220 may be chosen.*

5. Either Chemistry 490A/B or Biochemistry 499A/B.
6. Other courses to complete the prescribed minimum of 135 credit hours in courses for the Joint Honours Degree. Physics 2820 and/or Physics 2750 are recommended.

4.1.5 Biochemistry and Physics Joint Honours

The following courses are required:

- English 1080 and 1110 (or equivalent), Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031), Mathematics 1000 and 1001, Physics 1050 (or 1020) and 1051
- Chemistry 2400, 2401.
- Chemistry 2300 or 2301, or Physics 2053
- Mathematics 2000, 2050, 3260, either Mathematics 3202 or Physics 3810.
- Biochemistry 2100, 2101, 3105, 3106, 3107, 3108, Medicine 310A/B; plus 9 credit hours in courses to be selected from Biochemistry 4002, 4101, 4102, 4103, 4104, 4200, 4201, and 4230-4249; plus a 3 credit hour course to be selected from Biochemistry 4210 or 4211.
- Physics 2055, 2750 or 2056, 2820, 3220, 3400, 3500, 3750, 3820, 3900, 4820; plus one 4000 level Physics course.
- One course to be selected from Physics 3150, 3300, 3751, 4400. Physics 3751 is recommended.
- Either Physics 490A/B or Biochemistry 499A/B.
- Other courses to complete the prescribed minimum of 135 credit hours in courses for the Joint Honours degree.

4.1.6 Biochemistry and Psychology (Behavioural Neuroscience) Joint Honours

Note: *Students completing this program cannot receive credit for Psychology 2920.*

The following courses (or equivalent) are required to complete the 120 credit hours in courses required for the degree:

- Chemistry 1050 and 1051 (or equivalent), Biology 1001 and 1002, Mathematics 1000 and 1001, Physics 1050 (or 1020) and 1051, English 1080 and 1110.
- Biochemistry 2100, 2101, 3105, 3106, 3107, 3108, Medicine 310A/B, either 4210 or 4211, 9 credit hours chosen from Biochemistry 4002, 4101, 4102, 4103, 4104, 4105, 4200, 4201, 4220, 4230-4249.

Note: *Only one of 4105 and 4220 may be chosen.*

- Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3800, 3801, 3900, two further courses in Psychology chosen from the following: 3050, 3100, 3250, 3350, 3450, 3620, 3650, 3750; two 4000 level courses in Psychology of which one must be a research experience course.
- Either Biochemistry 499A/B or Psychology 499A/B.
- Chemistry 2300 or 2301, 2400, 2401.

Notes: 1. *In accordance with Clause 6. a. of the Regulations for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, or an average of 75% or higher in all the required courses listed in Clauses 2., 3. and 4. above, except those at the 1000 level.*

2. *Students in first year intending to follow this program should note the regulations for admission to Major programs in Psychology and that the deadline for submission of a completed application form to the Psychology Department is June 1 for the Fall semester and October 1 for the Winter semester.*

4.1.7 Biochemistry (Nutrition) and Psychology (Behavioural Neuroscience) Joint Honours

Note: *Students completing this program cannot receive credit for Psychology 2920.*

The following courses (or equivalent) are required:

- Chemistry 1010 and 1011 (or 1050, 1051), Biology 1001 and 1002, Mathematics 1000, Physics 1020 or 1050, and 1021 (or 1051), English 1080 and 1110.
- Biochemistry 2100, 2101, 2600, 3106, 3203, 4002, 4300, 4301, 4502, Medicine 310A/B; one course chosen from: Biochemistry 3105, 3107, 3108, 3202, 3402, 3600, 4101, 4103, 4104, 4105, 4200, 4201, 4210, 4211, 4220, 4230-4249, Biology 3050.
- Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3800, 3801, 3900; two further courses in Psychology chosen from the following: 3050, 3100, 3250, 3350, 3450, 3620, 3650, 3750; two 4000 level courses in Psychology of which one must be a research experience course.
- Either Biochemistry 499A/B or Psychology 499A/B.
- Chemistry 2400, 2401 or Chemistry 2440.
- Other courses to complete at least the prescribed minimum of 120 credit hours in courses for the Joint Honours Degree.

Notes: 1. *In accordance with Clause 6.a. of the Regulations for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, or an average of 75% or higher in all the required courses listed in Clauses 2., 3., and 4. above, except those at the 1000 level.*

2. *Students in first year intending to follow this program should note the regulations as outlined for admission to Major programs in Psychology and that the deadline for submission of a completed application form to the Psychology Department is June 1 for the Fall semester and October 1 for the Winter semester.*

4.1.8 Biology and Earth Sciences Joint Honours

The following courses, including prerequisites where applicable, will be required:

- English 1080 and 1110 (or equivalent), Mathematics 1000 and 1001, Biology 1001 and 1002, Earth Sciences 1000 and 1002, Chemistry 1010 and 1011 (or 1050 and 1051), Physics 1020 and 1021 (or 1050 and 1051).
- Chemistry 2440, Biochemistry 2101, Biochemistry 3106, one of Statistics 2550, 2560 or 2510.
- Biology 2060, 2250, 2600, 2900, one of 3401, 3402, 4245 or 4404; plus Biology 3710, 3711, and 4505. In addition, further Biology courses at the 2000, 3000, or 4000 level must be selected by the student in consultation with the supervisor to make up a minimum of 42 credit hours in Biology not including Biology 499A or 499B.
- Earth Sciences 2030, 2031, 2502, 2905; plus a minimum of 24 credit hours in other Earth Science courses from 2000 to 4000 level, at least 3 credit hours of which must be at 4000 level. Earth Sciences 2150, 2914, 2915, 2916, 2917, 2918, 4310, and 4950 cannot be used to fulfill this requirement. Career-related streams outlined in the departmental Student Handbook should be used as a guide to course selection so as to achieve a concentration in one facet of Earth Sciences.
- An Honours dissertation (Biology 499A/B or Earth Sciences 499A/B). The topic of the Honours dissertation must be chosen with the approval of both Department Heads. A faculty member of either Department may act as supervisor.
- Other courses to complete the prescribed minimum of 135 credit hours in courses for the Honours degree, with at least 84 credit hours in courses in Biology and Earth Sciences combined.

Any change in the program of study must have the prior approval of the Heads of the two Departments concerned.

4.1.9 Biology and Psychology Joint Honours

Note: *Students completing this program cannot receive credit for Psychology 2920.*

The following forty courses (or equivalent) are required:

1. Biology 1001, 1002, 2060, 2250, 2600, 2900; one of 3401, 3402, 4245, 4404; four Biology electives at the 2000, 3000 or 4000 level not including Biology 499A or 499B.
2. Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3250, 3800 or 3801; 3900, 4910; one of the following: 3050, 3100, 3350, 3450, 3620, 3650; one further 4000 level Psychology research experience course.
3. Biology or Psychology 3750, 4701, 499A/B.
4. English 1080 and 1110; Mathematics 1000; Chemistry 1010 and 1011 (or 1050 and 1051), and 2440; Physics 1020 (or 1050) and 1021 (or 1051); Biochemistry 2101 and 3106.
5. Other courses, if necessary, to complete at least 120 credit hours of courses.

4.1.10 Biology and Psychology (Behavioural Neuroscience) Joint Honours

Note: *Students completing this program cannot receive credit for Psychology 2920.*

The following forty courses (or equivalent) are required:

1. Biology 1001, 1002, 2060, 2250, 2600, 2900; one of 3401, 3402, 4245, 4404; five Biology electives at the 2000, 3000 or 4000 level not including Biology 499A or 499B.
2. Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3800, 3801, 3900; two further courses in Psychology chosen from the following: 3050, 3100, 3250, 3350, 3450, 3620, 3650, 3750; two 4000 level courses in Psychology of which one must be a research experience course.
3. Biology or Psychology 499A/B.
4. Biochemistry 2101, 3106.
5. English 1080 and 1110; Mathematics 1000 and 1001; Physics 1020 or (1050) and 1021 or (1051); Chemistry 1010 and 1011 (or 1050 and 1051), and 2440 (or 2400 and 2401);
6. Other courses, if necessary, to complete at least 120 credit hours of courses.

Note: *In accordance with Clause 6.a. of the Regulations for the Honours Degree of Bachelor of Science, Honours candidates must obtain a grade of "B" or better, OR average of 75% or higher in all the required courses listed in Clauses 1, 2, 3, and 4 above, except those at the 1000 level.*

4.1.11 Biology and Statistics Joint Honours (B.Sc. Only)

See **Regulations for the Honours Degree of Bachelor of Science**. Students shall complete the following requirements:

1. Mathematics 1000 and Mathematics 1001, Biology 1001 and 1002, English 1080 and 1110, Chemistry 1010 and 1011 (or 1050 and 1051), Physics 1020 and 1021, or equivalent;
2. Mathematics 2000, 2050, 2051, Statistics 2500 or 2510, 2501 or 2560 or the former 2511, 3520, 3521, 3530, and 4581;
3. nine further credit hours in Statistics courses (excluding those with second digit 0) including at least 6 credit hours in courses at the 4000 level or higher but not including Statistics 4599;
4. Chemistry 2440 (or 2400 and 2401). Biochemistry 2101 and 3106. Computer Science 2602;
5. Biology 2060, 2250, 2600, 2900, one of 3401, 3402, 4245, or 4404. In addition, further Biology courses at the 2000, 3000 or 4000 level must be selected by the student in consultation with the supervisor to make up a minimum of 42 credit hours in Biology but not including Biology 499A or 499B.
6. Either Biology 499A/B or Statistics 4599.

4.1.12 Chemistry and Earth Sciences Joint Honours

The following courses, including prerequisites, where applicable, will be required:

1. English 1080 and 1110 (or equivalents), Mathematics 1000 and 1001, Earth Sciences 1000 and 1002, Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or their equivalents, Physics 1050 (or 1020) and 1051.
2. Earth Sciences 2030, 2031, 2401, 2502, 2702, 2905, 3420, 3600; plus 6 additional credit hours in 3000-level Earth Sciences courses, and 9 additional credit hours in 4000-level Earth Sciences courses.
3. Chemistry 2100, 2210, 2301 (or 2300), 2302, 2400, 2401, 3500; plus 3211, 3303, 3410, and 3411 with the option of substituting up to 6 credit hours of these 3000-level courses with 4000-level Chemistry courses; and at least 3 additional credit hours in 4000-level Chemistry courses.
4. Mathematics 2000 and 2050.
5. Biology 2120 (or Biology 1001 and 1002) or Biochemistry 2101.
6. An Honours Dissertation (Earth Sciences 499A/B or Chemistry 490A/B). The topic of the Honours Dissertation must have the prior approval of the Heads of the two Departments. A faculty member of either Department may act as supervisor.
7. Other courses to complete the prescribed minimum of 120 credit hours.

Any change in the program of study must have the prior approval of the Heads of the two Departments concerned.

4.1.13 Chemistry and Physics Joint Honours

The following courses are prescribed:

1. Mathematics 1000, 1001, 2000, 2050, and 3260.
2. Physics 1050 (or 1020) and 1051.
3. A minimum of 45 additional credit hours in Physics courses, which shall include Physics 2055, 2750 or 2056, 2820, 3220, 3230, 3500, 3750, 3820, 3900, 4820 and 3 credit hours in a Physics course numbered 3000 or higher and 12 credit hours in Physics courses numbered 4000 or higher.
4. Physics 3810 or Mathematics 3202.
5. Chemistry 1050 and 1051 (or Chemistry 1010, 1011 and 1031) or (Chemistry 1200 and 1001), 2100, 2210, 2301 (or 2300), 2302, 2400, 2401, 3211, 3303, 3410, 3500, 4303 and 4304 and 6 additional credit hours in Chemistry courses numbered 3000 or higher.

6. The courses selected in accordance with 3. and 5. above shall include Chemistry 490A/B or Physics 490A/B.
 7. Six credit hours in English. English 1110 is recommended.
- The topic for the Honours thesis, Chemistry 490A/B or Physics 490A/B, must be chosen with the prior approval of both Departments.

4.1.14 Computer Science and Geography Joint Honours (B.Sc. Only)

1. Computer Science Requirements

See **Regulations for the Honours Degree of Bachelor of Science**.

Forty-eight credit hours in Computer Science courses are required for the Joint Honours:

- a. 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4751, 4770.
- b. Six additional credit hours in courses at the 4000 level not including 4780.
- c. Three additional credit hours in courses at the 3000 level or beyond.

2. Geography Requirements

Forty-eight credit hours in Geography courses are required for the Joint Honours: 1050, 2001, 2102, 2195, 2226, 2302, 2425, 3202, 3222, 3226, 3250, 3260, 3303, 4202, 4250, 4261, and the former 4291.

3. Additional Requirements

- a. Mathematics 2000, 2050, and 2320.
- b. An Honours Dissertation (either Computer Science 4780 or Geography 4999). The topic for dissertation must be chosen with the prior approval of the Heads of both Departments.

4.1.15 Computer Science and Physics Joint Honours

The following courses are prescribed:

1. Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031).
2. a. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3731, 3754, 4770.
b. Nine additional credit hours in Computer Science courses numbered 3000 or higher, including at least 6 credit hours in courses numbered 4000 or higher.
3. a. Physics 1050 (or 1020) and 1051.
b. Physics 2053, 2055, 2750 or 2056, 2820, 3220, 3400, 3500, 3750, 3820, 4500, 4820 and 3230 or 3900.
4. Physics 490A/B or Computer Science 4780.
5. Physics 3810 or Mathematics 3202.
6. a. Mathematics 1000 and 1001.
b. Mathematics 2000, 2050, 2320 and 3260

Statistics 2510 is recommended.

The topic for the Honours project or thesis, Computer Science 4780 or Physics 490A/B, must be chosen with the prior approval of both Departments.

4.1.16 Computer Science and Pure Mathematics Joint Honours (B.Sc. Only)

See **Regulations for the Honours Degree of Bachelor of Science**. Students shall complete the following:

At least 51 credit hours in Computer Science courses are required including the following:

1. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4770.
2. Excluding 4780, 15 additional credit hours from courses numbered 3000 or higher, at least 9 credit hours of which must be in courses at the 4000 level.

The following courses in Mathematics and Statistics are required:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 2320, 3000, 3001, 3202, 3210, 3260, 3320, 3340, Statistics 2510;
2. Either Mathematics 4000 or 4001;
3. Excluding Mathematics 4399, 15 additional credit hours in courses offered by the Department of Mathematics and Statistics numbered 3000 or higher including at least 9 credit hours from courses numbered 4000 or higher and at least 9 credit hours in Pure Mathematics courses;
4. An Honours Dissertation in one of the departments, with the topic chosen in consultation with both departments.

Note: *There is an Undergraduate Advisor in each Department. These advisors should be consulted on all academic matters.*

4.1.17 Computer Science and Statistics Joint Honours (B.Sc. Only)

See **Regulations for the Honours Degree of Bachelor of Science**. In addition to Mathematics 1000 and 1001 the following courses numbered 2000 or higher are required:

1. Mathematics 2000, 2050, 2051, 2320, 3340, Statistics 3410, 3411, 3520, 3521, 3530, 3540, 4590;
2. Twenty-four further credit hours in Statistics courses including at least 12 credit hours in courses numbered 4000 or higher, but not including Statistics 4599 and 4581;
3. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4734, 4770.
4. Six additional credit hours in Computer Science courses at the 4000 level, not including 4780.
5. Either Computer Science 4780 or Statistics 4599.

4.1.18 Earth Sciences and Geography Joint Honours (B.Sc. Only)

The following courses will be required. A few prerequisites are not met by this list of courses, and students are advised to obtain advice from instructors in such cases to be sure that they are prepared for course material. Both departmental Heads can advise students on a workable sequencing of courses to complete the degree in a timely manner, and students should view a student handbook that describes thematic streams within the program and offers specific guidance about course selection.

1. English 1080 or equivalent, English 1110 or equivalent, Geography 1050, Mathematics 1000 and 1001, Earth Sciences 1000 and 1002, one of Chemistry 1010 or 1050 (or equivalent) and one of Chemistry 1011 or 1051 (or equivalent), Physics 1050 and 1051, or Physics 1020 and 1021.
2. Geography 2001 or 2302, and Geography 2102, 2195, 2226, 2425 and 3226, Earth Sciences 2401 or 2502, and Earth Sciences 2030, 2031, 2702 and 2905.
3. Mathematics 2000 or Statistics 2510 or Geography 3222, Biology 1001 and 1002, or Biology 2120 or Physics 2055.
4. Either Earth Sciences 499A and 499B, or Geography 4990 and Geography 4999.
5. At least an additional 40 credit hours from Earth Sciences and Geography, with a minimum of 16 credit hours from Earth Sciences and 18 credit hours from Geography; and a minimum of 9 credit hours at the 4000-level in each discipline. Earth Sciences 2150, 2914, 2915, 2916, 2917, 2918, 4310, and 4950 cannot be used to fulfill this requirement. Geography 2105, 2290, 2405, 2460 and 2495 cannot be used to fulfill this requirement.
6. Additional credit hours selected to conform to the **Regulations for the Honours Degree of Bachelor of Science** so as to achieve a total of 120 credit hours.

Notes: 1. *The topic of the Honours dissertation must be chosen with the approval of both Departments. A faculty member of either Department may act as supervisor.*
 2. *Any change in the program of study must have the prior approval of the Heads of both Departments concerned.*
 3. *The number of specified courses means that English 1110 will be taken normally in the second or third year of the program.*
 4. *Students who do not satisfy the Regulations for the Honours Degree of Bachelor of Science - Academic Standing, but who successfully complete all the courses, with the exception of the Honours dissertation, and who satisfy all other requirements for the Bachelor of Science, will be eligible to receive a Bachelor of Science with a joint major in Geography and Earth Science.*

4.1.19 Earth Sciences and Physics Joint Honours

This program was formerly in the Earth Sciences section of the calendar as an Honours B.Sc. Degree in Geophysics. The following courses will be required:

1. English 1080 and 1110 (or equivalent), Mathematics 1000 and 1001, Earth Sciences 1000 and 1002, Chemistry 1010 and 1011 (or equivalent), Physics 1050 (or 1020) and 1051.
2. Earth Sciences 2030, 2401, 2502, 2702, 2905, 3170, 3172, 3420, 3905, 4171, 4173, 4179.
3. Physics 2055, 2750 or 2056, 2820, 3220, 3230, 3500, 3820, 4820; plus 9 other credit hours in Physics courses at 3000 level or higher.
4. Mathematics 2000, 2050, 3202, and 3260.
5. Either Earth Sciences 499A/B or Physics 490A/B.
6. Other courses to complete at least a minimum of 120 credit hours.

Any change in the program of study must have the prior approval of the Heads of the two Departments concerned.

4.1.20 Geophysics and Physical Oceanography Joint Honours

The program requires the following courses:

1. English 1080 and 1110 (or equivalent), Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031), Mathematics 1000 and 1001, Earth Sciences 1000 and 1002, Physics 1050 (or 1020) and 1051.
2. Earth Sciences 2905, 3170, 3172, 4105, 4171, 4173, 4179 and 10 credit hours at the 2000 level or higher with at least 3 credit hours at the 3000 level.
3. Physics 2053, 2055, 2820, 3220, 3300, 3500, 3820, 4205, 4300, 4330, 4820 plus one of Physics 3600, 3150, 3400, 3550 or 3900.
4. Mathematics 2000, 2050, 2051, 3202 and 3260.
5. Either Earth Sciences 499A and 499B or Physics 490A and 490B.
6. Other courses to complete the prescribed minimum of 120 credit hours.

4.1.21 Pure Mathematics and Statistics Joint Honours

See **Regulations for the Honours Degree of Bachelor of Science**. In addition to Mathematics 1000 and 1001 the following courses numbered 2000 or higher are required:

1. Mathematics 2000, 2050, 2051, 2130, 2320, 3000, 3001, 3202, 3210, 3260, 4000, Statistics 3410, 3411, 3520, 3521, 3530, 4401, 4410;
2. A computing course early in the program is required. Computer Science 1510 is highly recommended;
3. either Mathematics 4399 or Statistics 4599;
4. one of: Mathematics 3330 or 3340;
5. Twenty-one further credit hours in Pure Mathematics and/or Statistics courses numbered 3000 or higher of which at least 12 credit hours must be from courses numbered 4000 or higher excluding Statistics 4581.

4.2 Joint Majors

4.2.1 Applied Mathematics and Computer Science Joint Major (B.Sc. Only)

The following courses are required

1. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4770, plus 6 further credit hours in Computer Science courses numbered 3000 or higher.
2. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 2320, 3000, 3100, 3132, 3161, 3202, 3260, 4160, 4190, plus one of Mathematics 3210, 4131, 4132, 4162.

In addition, Statistics 2510 is highly recommended.

4.2.2 Applied Mathematics and Economics Joint Major (B.Sc. Only)

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 3000, 3100, 3202, 3260, 4132, Statistics 2510.
2. Either Mathematics 3132 and 4131 or 3161 and 4160.

3. A computing course early in the program is required. Computer Science 1510 is highly recommended.
4. Economics: 2010, 2020, 2550, 3000, 3001, 3010, 4550, 4551.
5. Eighteen further credit hours chosen from among the various Economics courses in consultation with the Head of the Department or delegate, including at least 9 credit hours at the 4000 level.

4.2.3 Applied Mathematics and Physics Joint Major (B.Sc. Only)

Required course for this degree are:

1. English 1080 and English 1110 (or equivalent).
2. A computing course. Computer Science 1510 is recommended.
3. Six credit hours in science other than Mathematics or Physics (if Computer Science is chosen then Computer Science 1510 may be counted as 3 of these hours).
4. Mathematics 1000, 1001, 2000, 2050, 2051, 3000, 3001, 3132, 3202, 3260.
5. At least one of Mathematics 2130 or Mathematics 2320.
6. Physics 1050 (or 1020), 1051, 2053, 2055, 2750 (or 2056), 2820, 3220, 3400, 3500, 3750.
7. Mathematics 3161 or Physics 3820.
8. At least 15 additional credit hours chosen from Applied Mathematics and Physics courses numbered 3000 or above. At least 3 hours are required from Applied Mathematics and 6 hours are required from Physics.
9. A writing course. Any one of Mathematics 2130, Physics 3900, Mathematics 419A/B, or Physics 490A/B is acceptable.

The last requirement does not have to be met independently of the other regulations. For example, it can be satisfied either by choosing Mathematics 2130 from clause 5. above or choosing Physics 3900 as a 3000+ elective in clause 8. above.

4.2.4 Computer Science and Economics Joint Major (B.Sc. Only)

1. Computer Science Requirements

Forty-two credit hours in Computer Science courses are required: 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3731, 3753, 3754, and 4770.

2. Economics requirements

A total of 42 credit hours in Economics courses are required: 2010, 2020, 2550, 3000, 3001, 3010, and 6 credit hours from either 3550 and 3551, or 4550 and 4551 are obligatory.

The remaining 18 credit hours shall be chosen from among the various Economics courses in consultation with the Head of the Department or delegate, and will include at least 9 credit hours in courses at the 4000 level.

3. **Additional Requirements:** Mathematics 1000, 1001, 2000, 2050, 2320, and Statistics 2510.

4.2.5 Computer Science and Geography Joint Major (B.Sc. Only)

1. Computer Science Requirements

Thirty-nine credit hours in Computer Science courses are required: 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4751, and 4770.

2. Geography Requirements

Thirty-nine credit hours in Geography courses are required: 1050, 2001, 2102, 2195, 2302, 2425, 3202, 3222, 3250, 3260, 4202, 4250, 4261.

3. **Additional Requirements:** Mathematics 2000, 2050, and 2320.

4.2.6 Computer Science and Physics Joint Major

1. Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031).
2. Thirty-nine credit hours in Computer Science are required for the Joint Major: 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3731, 3754, 4770.
3. Physics 1050 (or 1020) and 1051 plus at least 30 additional credit hours in Physics including 2053, 2055, 2750 (or 2056), 2820, 3220, 3400, 3500, 3550, 3750, 3900.
4.
 - a. Mathematics 1000 and 1001.
 - b. Mathematics 2000, 2050, 2320, 3260, and Statistics 2510
 - c. Physics 3810 or Mathematics 3202.

4.2.7 Computer Science and Pure Mathematics Joint Major (B.Sc. Only)

In addition to Mathematics 1000, 1001, and Computer Science 1710, the following courses numbered 2000 or higher are required:

1. 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4770.
2. Six additional credit hours in Computer Science courses numbered 3000 or higher.
3. Mathematics 2000, 2050, 2051, 2130, 2320, 3000, 3202, 3260, 3320, 3340, and Statistics 2510.
4. Nine additional credit hours in courses numbered 3000 or higher offered by the Department of Mathematics and Statistics.

4.2.8 Computer Science and Statistics Joint Major (B.Sc. Only)

In addition to Mathematics 1000, 1001, and Computer Science 1710, the following courses numbered 2000 or higher are required:

1. 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4734, 4770.
2. Statistics 2510 and 2560.
3. Mathematics 2000, 2050, 2051, 2320, 3340, Statistics 3410, 3411, 3520, 3521, 3540, 4590.
4. nine further credit hours in Statistics courses numbered 3000 or higher including at least a 3 credit hour course numbered 4000 or higher excluding Statistics 4581.

4.2.9 Earth Sciences and Physics Joint Major

This program was formerly in the Earth Sciences section of the calendar as a General B.Sc. Degree in Geophysics. The following courses will be required:

1. English 1080 and 1110 (or equivalent), Mathematics 1000 and 1001, Earth Sciences 1000 and 1002, Chemistry 1010 and 1011 (or equivalent), Physics 1050 (or 1020) and 1051.
2. Earth Sciences 2030, 2401, 2502, 2702, 2905, 3170, 3172, 3420, 3905; plus a 3 credit hour course in Earth Sciences 4100 series.
3. at least 30 credit hours in Physics courses at the 2000 level or higher, including Physics 2055, 2056 or 2750, 2820, 3220, 3500.
4. Mathematics 2000, 2050 and 3202.
5. Other courses to complete at least a minimum requirement of 120 credit hours in courses for the General Degree.

Any change in the program of study must have the prior approval of the Heads of the two Departments concerned.

4.2.10 Economics and Pure Mathematics Joint Major (B.Sc. Only)

1. Mathematics 1000, 1001, 2000, 2050, 2130, 2320, 3000, 3100, 3202, 3260, 3320, Statistics 2510 and one 4000 level Mathematics course.
2. A computing course early in the program is required. Computer Science 1510 is highly recommended.
3. Economics: 2010, 2020, 2550, 3000, 3001, 3010, and 6 credit hours from either 3550 and 3551, or 4550 and 4551.
4. Eighteen further credit hours chosen from among the various Economics courses in consultation with the Head of the Department or delegate, including at least 9 credit hours at the 4000 level.

4.2.11 Economics and Statistics Joint Major (B.Sc. Only)

1. Mathematics 1000, 1001, 2000, 2050, 2051, Statistics 2510, 2560, 3410, 3411, 3520, 3540, 4590.
2. Six further credit hours in Statistics courses numbered 3000 or higher, at least 3 credit hours of which must be numbered 4000 or higher, excluding Statistics 3521 and 4581.
3. Economics: 2010, 2020, 2550, 3000, 3001, 3010, 4550, 4551.
4. Eighteen further credit hours chosen from among the various Economics courses in consultation with the Head of the Department or delegate, including at least 9 credit hours at the 4000 level.

4.2.12 Economics (Co-operative) and Statistics Joint Major (B.Sc. Only)

The Joint Major in Economics (Co-operative) and Statistics Option is available to full-time Economics and Statistics majors (B. Sc.) only. The program is available under the Economics Co-operative Education Option (ECEO)

The ECEO provides an excellent mutual opportunity for students and employers. Qualified students will obtain rewarding employment experience in fields related to Economics for several months of continuous duration. Students will learn valuable practical skills in an employment situation during their course of study. Furthermore, paid employment will help to defray the cost of their education. The timing of the Work Terms and the structure of the ECEO generally are such that employers stand to gain from the acquired employable skills of economists and statisticians in training. The objectives of the Work Term component of the ECEO are embodied in the Work Term descriptions below. The descriptions serve to guide the student and the employer toward achieving these objectives.

1. Admission Requirements

- a. Admission is competitive and selective. Therefore, prospective students are encouraged to consider an alternate degree program in the event that they are not accepted into the Joint Co-operative program.
- b. Applicants should note that it is possible to enter Term 1 only in the Fall semester commencing in September of each academic year. Application forms are available in the Department of Economics and the Department of Mathematics and Statistics. The deadline for applications for admission to Term 1 is March 1.
- c. The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Students with weak overall academic records are unlikely to be admitted.
- d. To be eligible for admission to Term 1 an applicant must have successfully completed a minimum of 30 credit hours with an overall average of at least 65% as follows: All applicants must have completed Economics 2010 and 2020; at least 6 credit hours in English; Mathematics 1000 and 1001; and 12 credit hours chosen from courses in the Faculties of Arts or Science.
It is recommended that students complete English 1110. Critical Reading and Writing II (Context, Substance, Style) as one of these English courses.
- e. Students may apply for admission to Advanced Standing.
- f. Transfer students from other universities will be placed in that term of the program judged to be appropriate considering equivalent credits, as determined by the Departments.

2. Program of Study

- a. Promotion from each of Terms 1 through 6 requires a passing grade in all specified required courses and an overall average of at least 60% in all courses including electives. A student who fails a required course or fails to maintain an overall average of 60% will not be promoted to the next term and will be required to withdraw from the program. The student in question may apply for readmission in a subsequent year after passing the specified required course(s) previously failed, or re-establishing the 60% average.
- b. In addition to the 30 credit hours required for admission, students are required to complete the six academic terms in the ECEO program for a total of 120 credit hours. Students must complete three Work Terms which follow Academic Terms 2, 4, and 5.
- c. Courses shall normally be taken in academic terms or "blocks" in the sequenced course load and order set out in the **Academic Course Program - Economics (Co-operative) and Statistics Joint Major (B.Sc. Only) Table**. Unspecified credits may be used to fulfill elective requirements only.
- d. **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Classification of Students** notwithstanding, students do not require special permission to register for courses while on work terms if the courses are in addition to the prescribed program.

3. Work Term Placement

See Regulations in Economics for the Major in Economics (Co-operative), in the Faculty of Arts section of the Calendar.

4. Registration and Evaluation of Performance

See Regulations in Economics for the Major in Economics (Co-operative), in the Faculty of Arts section of the Calendar.

Academic Course Program - Economics (Co-operative) and Statistics Joint Major (B.Sc. Only) Table

Term 1 (Fall) Economics 3000 Economics 3550 Statistics 2510 Mathematics 2000 Computer Science 1700	Term 3 (Fall) Economics 4550 Mathematics 2051 Statistics 3410 Three further credit hours in Statistics courses Three credit hours in elective courses [see Note 2]	Term 5 (Fall) Statistics 3520 Statistics 4590 Six further credit hours in Economics courses Three further credit hours in Statistics courses
Term 2 (Winter) Economics 2550 Economics 3001 Economics 3010 Mathematics 2050 Statistics 2560	Term 4 (Winter) Economics 3011 Economics 4120 Economics 4551 Statistics 3411 Statistics 3540	Work Term III (Winter) Economics 499W
Work Term I (Spring) Economics 299W	Work Term II (Spring) Economics 399W	Term 6 (Spring) Three further credit hours in Economics courses Three credit hours in Science courses [see Note 2] Nine credit hours in elective courses [see Note 2]

Notes: 1. Another 1000-level Computer Science course may be substituted for Computer Science 1700 with the Heads' approvals.
 2. Elective courses should be chosen with reference to the Regulations for the General Degree of Bachelor of Science, since courses specified for admission to and completion of the program only partially satisfy these regulations. In particular note that in addition to the 78 credit hours (26 courses) in Science subjects required, at least 3 credit hours in a Science subject other than Mathematics/Statistics, Economics and Computer Science must be completed.

4.3 Option Programs

4.3.1 Physics and Chemistry Option Programs

Students who follow the five-year Physics/Chemistry Joint Honours Program of courses outlined above either as Honours students or otherwise and who satisfy all relevant course regulations except those on Academic Standing for the Honours Degree of Bachelor of Science shall receive on their University records a notation that they followed the "Physics/Chemistry" Option Programs.

Students who intend to follow a joint degree program are strongly recommended to consult the Head of the Department or delegate at their earliest opportunity to ensure proper planning of their course sequence.

5 Degree Regulations

Students must meet all regulations of the Faculty of Science in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

5.1 Admission to the Department of Subject of Major

Admission to certain major programs within the Faculty is limited and competitive.

Admission to all major programs within the Faculty is upon formal application to the department of the subject of major after completion of the admission requirements.

Unless otherwise indicated by the Departmental Admission Regulations as published in the University Calendar under departmental regulations, students upon formal application by *Change of Academic Program Form*, are normally admitted to the department of major program upon successful completion of 30 credit hours which must include:

1. 6 credit hours in English courses
2. 6 credit hours in Mathematics courses
3. 6 credit hours in courses from each of two Sciences other than Mathematics

Students seeking admission to departments with Departmental Admission Regulations as indicated above must apply for admission on the appropriate Departmental Application for Admission Form upon completion of the specified admission requirements.

5.2 Limited Enrolment Courses

Certain course offerings in the Faculty of Science will be identified as being Limited Enrolment Courses and will be clearly identified as such in the University Timetable. Students who have registered for a Limited Enrolment Course must confirm their registration either (1) by attending at least one of the first three hours of lecture in the course and the first meeting of any laboratory section of the course; or (2) by notifying the department in writing within the first five university working days of the semester. Students who do not confirm their registration may be dropped from the course on the recommendation of the Head of Department.

5.3 Regulations to Govern Supplementary Examinations in the Departments of Biochemistry, Computer Science, Mathematics and Statistics, and Physics and Physical Oceanography

1. Supplementary examinations will be allowed in certain of the Biochemistry, Computer Science, and Physics and Physical Oceanography courses, and all Mathematics and Statistics courses which have written final examinations. In each course, students will be informed as to the possibility of a supplementary examination during the first week of classes. This information will be

provided in writing, as part of the evaluation scheme for the course.

2. Supplementary examinations will be similar in length and degree of difficulty as the original final examination.
3. Students who wish to write supplementary examinations must apply in writing to the department within one week of release of grades.
4. A student who has clear or conditional standing may write a supplementary examination in a course if the final grade obtained is 45-49F and if his or her term mark is at least 50%.
5. In order to pass the course, the student, must pass the supplementary examination. If the student passes the supplementary examination, then a new grade will be calculated using the same weighting scheme as used in the course, but with the result of the supplementary examination replacing that of the original final examination. Any additional course requirements, including a requirement to pass the laboratory component of a course, will continue to apply.
6. If the new course grade is higher than the original, it will replace the original grade on the student's transcript, subject to the condition that the final mark will not exceed the student's term mark. The student's transcript will indicate that the course result was earned as the result of a supplementary examination.
7. Supplementary examinations will be written no later than the first week of the semester immediately following the one in which the course was failed. Normally they will coincide with the writing of deferred examinations. Grades for supplementary examinations will be submitted to the Office of the Registrar within one week following the commencement of classes for that semester.
8. A student may write a supplementary examination for any one registration in a course only once; if the course result following the supplementary examination is a fail then the course must be repeated in order to obtain credit.

5.4 Regulations for the General Degree of Bachelor of Science

1. For the General Degree of Bachelor of Science a candidate will be required to complete, subject to the following Regulations, 120 credit hours applicable to the degree which shall include:
 - a. Six credit hours in English courses
 - b. Six credit hours in Mathematics courses
 - c. Six credit hours in courses from each of two Sciences other than Mathematics
2. a. Courses shall be chosen so that a candidate shall have completed an approved concentration of courses in one subject to be known as the candidate's Major. For the purposes of these regulations, candidates may complete only one major from departments which offer more than one. In selecting courses in their Major, candidates must comply with the Departmental Regulations approved by the Senate and printed in the Calendar. The Departmental Regulations shall require not fewer than 36 nor more than 45 credit hours in courses from the subject of the Major (including the courses in that subject completed at the first year level). (See also Notes 1. and 2.).
 - b. The subject of the candidate's major shall be that declared by the candidate on the appropriate admission form and approved by the department at the time of admission.
 - c. The 36 or more credit hours in courses from one subject referred to in a. above, may be chosen from the following subjects, and may include courses in that subject which were completed at first-year level: Biology (see Note 4.), Biochemistry (see Note 6.), Chemistry, Computer Science, Earth Sciences, Economics, Geography, Mathematics (except the former 1150 and 1151) and Statistics, Physics, Psychology.
 - d. A candidate may change the subject of the Major during any Regular Registration Period provided he or she has first applied for and received acceptance by the department to which application is being made.
 - e. In those Departments which offer programs leading to both a degree of Bachelor of Arts and a degree of Bachelor of Science, students are free to choose the degree program they wish to follow and may change from one to the other; however, they may not obtain both degrees in the same Major subject at this University.
3. Further courses may be chosen from any of the subjects listed in Clause 2. above, or from other courses approved by the Committee on Undergraduate Studies of the Faculty of Science (see Note 5.), provided that, of the 120 credit hours required:
 - a. candidate shall have completed at least 78 credit hours in courses from the subjects listed in Clause 2. above, including the Major courses and the courses required for admission; See Notes 3. and 5.
 - b. there shall be not fewer than five subjects in which a candidate shall have completed courses. At least four of these subjects shall be chosen from the subjects listed in Clause 2. above. In the case of unspecified transfer credits awarded in a subject area not taught at Memorial University of Newfoundland any number of such transfer credits in the aggregate shall count as one subject area.
 - c. not more than 15 unspecified transfer credit hours awarded in a subject area not taught at Memorial University of Newfoundland shall be used to satisfy the requirements of the degree.
4. Before a candidate registers, the Head of the Department of his or her Major, or delegate, shall approve a candidate's program which is in accordance with the above regulations. The Head of the Department or delegate shall advise each candidate of programs suitable for his or her particular needs.
5. To obtain a general degree of Bachelor of Science a candidate shall have:
 - a. satisfied the conditions of **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate), Graduation - Application for Graduation - Degrees, Diplomas and Certificates;**
 - b. obtained an average of at least 2.0 points per credit hour in the 78 credit hours in Science required for the degree;
 - c. obtained an average of at least 2.0 points per credit hour in the minimum number of credit hours in the major subject (or, in the case of joint majors, subjects) required for the major program (or, in the case of joint majors, programs).
6. Where a student satisfies the separate departmental regulations for a major in two or more subjects for which a specific joint program does not exist, such subjects shall be recognized as the major subjects for the general degree of Bachelor of Science.
7. A candidate may complete a minor of at least 24 credit hours in courses from a subject area other than that of the Major chosen from Clause 2. c. above or from minors available in the Faculty of Arts, the Faculty of Business Administration, and the School of Music. (It should be noted that because of departmental regulations for the Major, not every candidate may be able to fit a minor into his or her 120 credit hour program).
 - a. The subject of the candidate's minor shall be that declared by the candidate on the Change of Academic Program Form which must then be signed by the Head of the Department of the Minor.
 - b. A candidate must follow the departmental regulations for the Minor as set forth in the appropriate section of the Calendar.
 - c. The Head of the Department of the Minor will advise the candidate on the selection of courses in the Minor.

- d. Students who have taken courses appropriate to their Minor at another university are required to complete at least 6 credit hours in courses from that subject at this University. These courses must be chosen in consultation with the Head of the Department of the Minor program.
- e. A candidate must obtain a grade point average of at least 2.0 in the credit hours prescribed for the minor program.

- Notes:
1. Departmental regulations are not intended to debar students from taking more than the required courses in the subject of their Major.
 2. Students who have taken courses in the subject of their Major at another university are required to complete at least 12 credit hours in courses from that subject at this University.
 3. The former Science 2010/2011 may be used to fulfil in part the requirement of 78 credit hours in Science.
 4. Biology 2120 may not be used for credit by Biology Majors.
 5. When Science course equivalents have been established by Department Heads for Engineering courses, credit may not be obtained for both the Engineering course and the established equivalent course offered by the Faculty of Science.
 6. In the case of Biochemistry the courses for the Biochemistry program shall include Chemistry 2400 and 2401.

5.5 Regulations for the Honours Degree of Bachelor of Science

A program is offered leading to the Honours Degree of Bachelor of Science. An Honours degree offers greater specialization in a given field of knowledge than a General degree, and requires higher than average academic achievement. Possession of this degree will be of great advantage to all students planning more advanced work in their chosen field. In many cases, an Honours degree is a prerequisite for admission to a graduate program.

5.5.1 Admission and Registration

1. Declaration of Intent: A candidate for an Honours degree shall declare in writing his (her) intention to pursue an Honours program and to obtain an Honours degree in a specified subject or subjects. Such declaration shall be submitted to his (her) Department(s) of specialization and to the Registrar not earlier than the beginning of his (her) fifth semester, or the equivalent, at University, and not later than the final date set for the application for a degree. A candidate for an Honours degree must have completed all courses listed under **Admission to the Department of Subject of Major** before declaring his (her) intent to pursue an Honours degree, regardless of whether these courses had been completed at the time of admission to his (her) Department of specialization.

Note: An otherwise qualified student who fails to declare his (her) intention to obtain an Honours degree on or before the last day of the period outlined above shall be awarded a General degree even if he (she) fulfils all other requirements for an Honours degree. The University cannot undertake to notify him (her) that he (she) may be eligible for an Honours degree.

2. At the beginning of each registration period the Head(s), or delegate(s), of the Department(s) in which a candidate is taking Honours, shall approve a candidate's program. The Head(s) of Department(s), or delegate(s), shall advise each candidate of programs suitable for his or her particular needs.
3. Students who have been awarded a Bachelor of Science (General) degree may convert it to a Bachelor of Science (Honours) degree by declaring their intention and by completing the requirements for the Honours degree as outlined in these regulations.
4. To graduate, a candidate for an Honours degree must have completed all courses listed under **Admission to the Department of Subject of Major** in addition to those courses required by individual departmental regulations.

5.5.2 Course Requirements

1. a. For the Honours Degree of Bachelor of Science with a single subject major a candidate will be required to have completed 120 prescribed credit hours in courses. For the Joint Honours Degree of Bachelor of Science a candidate will be required to have completed either 120 or 135 credit hours as prescribed by the specific program. In either case, those courses must include the courses specified in **Clause 1. of the Regulations for the General Degree of Bachelor of Science**.

b. Clause 1.a. notwithstanding, certain Departmental regulations preclude the possibility of completing a single subject Honours degree in 120 credit hours and may require the completion of 123, 126 or 129 credit hours in courses. (See Note below). In such cases all courses required to satisfy requirements of the degree will be used to determine **Academic Standing**, 2. below.

Note: The requirements for an Honours Degree of Bachelor of Science cannot be completed in 120 credit hours if any of the following three statements is true: (i) the student is a major in Chemistry, or Physics and has completed the former Mathematics 1080; (ii) the student is a major in Chemistry or Physics and has completed the former Chemistry 1800; (iii) the student is a candidate for the Honours B.Sc degree in Chemistry or Physics and has completed Physics 1021. Such students will only meet the degree requirements after completing 123, 126 or 129 credit hours in courses.

2. Courses shall be chosen so that a candidate shall have completed:

Either, (i) at least 60 credit hours from courses in one of the following subjects, including the courses in that subject completed at the first year level: Biology, Biochemistry, Chemistry, Computer Science (See Note 2.), Earth Sciences, Economics, Geography, Mathematics and Statistics, Physics and Psychology.

- Notes:
1. For options in the Biochemistry and Nutrition programs the courses shall be those specified in the respective programs.
 2. For the Behavioural Neuroscience Program, the courses shall be those specified in the program.
 3. For the Environmental Physics Program, the courses shall be those specified in the program.

or, (ii) at least 84 credit hours in courses from two subjects listed in (i) above, including the courses in these subjects completed at the first year level, with no fewer than 36 credit hours in either subject approved by the Committee on Undergraduate Studies of the Faculty of Science on the recommendation of the respective Heads of Departments.

or, (iii) in special circumstances, a program of at least 90 credit hours in courses from two or more subjects, including the courses in these subjects completed at the first year level, one of which need not be taken from those listed in i. above, as recommended by the Heads of the Departments concerned and approved by the Committee on Undergraduate Studies of the Faculty of Science.

3. Further courses may be chosen from any of the subjects listed in Clause 2. above, or from other courses recognized for this purpose by the Committee on Undergraduate Studies of the Faculty of Science (see Note 5 of the Bachelor of Science General Degree) provided that, of the 120 or more credit hours required:
 - a. a candidate shall have completed at least 90 credit hours in courses from the subjects listed in Clause 2. above, including those completed at the first-year level, and
 - b. there shall be no fewer than four subjects in which a candidate shall have completed courses. In the case of unspecified transfer credits awarded in a subject area not taught at Memorial University of Newfoundland, any number of such transfer credits in the aggregate shall count as one subject area.
 - c. Not more than 15 unspecified transfer credit hours in courses awarded from a subject area not taught at Memorial University of Newfoundland shall be used to satisfy the requirements of the degree.

5.5.3 Comprehensive Examination and Dissertation

1. In addition to the regular examinations, a candidate in an Honours program shall pass a general comprehensive examination in his (her) Major subject or subjects. Alternatively, a candidate may be required to submit a dissertation, which at the discretion of the Head(s) of the Department(s) of specialization may be followed by an oral examination thereon.
2. If a candidate is required to submit a dissertation, such dissertation must be submitted to the University Library before the degree is conferred. All Honours dissertations in the University Library shall be available for unrestricted consultation by students and faculty except under very exceptional circumstances which must be approved by the Committee on Undergraduate Studies. Copyright remains with the author. A release form, signed by both the student and the head of the academic unit of the student's program, must accompany an essay or a dissertation when it is submitted to the University Library.
3. The deadline for the submission of Honours dissertations shall be no later than three weeks before the end of the final semester of the candidate's program.
4. The Honours dissertation shall be equivalent to either a 3 credit hour course or a 6 credit hour linked course as specified in the course offerings of each Department.

5.5.4 Departmental Regulations

Candidates for Honours Degrees shall also comply with such additional requirements of the appropriate Department(s) as are approved by the Senate and printed in the Calendar.

5.5.5 Residence Requirements

1. To qualify for an Honours Degree in Science, a candidate shall attend a recognized university or an equivalent institution for at least seven semesters as a full-time student. Honours candidates transferring credits to Memorial University of Newfoundland from other universities or equivalent institutions shall either spend a minimum of four of the seven semesters as full-time students at Memorial University of Newfoundland, and take a minimum of 24 credit hours in courses from their Honours discipline or take a minimum of 36 credit hours in courses from their Honours discipline as full-time students at Memorial University of Newfoundland (whichever is to their advantage), provided that the total number of semesters spent as full-time students at this and other recognized universities or equivalent institutions will not be less than seven.
2. To qualify for an Honours Degree in Science and additionally a second degree, a candidate shall attend this University for at least ten semesters as a full-time student, except with the special permission of the Faculty Committee on Undergraduate Studies.

5.5.6 Academic Standing

In order to graduate with an Honours degree, a candidate shall obtain:

1. a grade of "B" or better, OR an average of 75% or higher (whichever is to the candidate's advantage) in the minimum number of courses in the Honours subject (or subjects) prescribed by the Department (or, in the case of joint Honours, Departments) concerned, excluding the 1000-level courses, and
2. an average of at least 2.75 points on the total number of courses required for the degree (see **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate), Grading** for explanation of the point system).

Note: A student may, with the approval of the Head of the Department and the Committee on Undergraduate Studies, repeat or substitute up to three courses in order to meet the requirements of Clause 1. above. In counting repeats, each attempt at the same course will count as one course towards the maximum. That is, the same course, repeated three times, would place a student at the maximum and no additional repeats or substitutions would be allowed.

5.5.7 Classification of Degrees

1. If the candidate's general average is 3.25 or better per required course, and his (her) average for the courses in his (her) Honours subject (excluding 1000-level courses) is 3.50 or better, he (she) shall be awarded an Honours degree with First Class standing.
2. If the candidate fulfils the conditions outlined under **Academic Standing** but not of Clause 1. above., he (she) shall be awarded an Honours degree with Second Class standing.
3. No classification will be given to the degree awarded a candidate who has completed (i) fewer than one half of the courses required for the degree at this University, or (ii) who has completed fewer than one half of the courses required for the degree at this University since 1959. All candidates for such degrees shall, however, fulfil the conditions outlined under **Academic Standing** on the courses taken at the University since September, 1959, in order to qualify for the degree.
4. A declared candidate for an Honours degree who fails to attain the academic standing specified under **Academic Standing** but fulfills the academic requirements for a General Degree shall be awarded a General Degree, the classification of which shall be determined in accordance with the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate), Graduation**.

6 Waiver of Regulations for Undergraduate Students

Where circumstances warrant, any prerequisite or prerequisites listed in Departmental Regulations may be waived by the Head of the Department. Any Department Regulations may be waived by the appropriate Committee on Undergraduate Studies upon request of the Head of the Department concerned.

7 Program Regulations

7.1 Biochemistry

www.mun.ca/biochem/about_us/

The following undergraduate programs are available in the Department:

1. Biochemistry and Cell Biology/Microbiology Joint Honours
2. Biochemistry and Chemistry Joint Honours
3. Biochemistry and Physics Joint Honours
4. Biochemistry and Psychology (Behavioural Neuroscience Joint Honours)
5. Biochemistry (Nutrition) and Psychology (Behavioural Neuroscience) Joint Honours

6. Major or Honours in Biochemistry
7. Major or Honours in Nutrition
8. Minor in Biochemistry

Students who wish to enrol in any of these programs should plan their program well in advance so that they will have taken the appropriate prerequisites. Entry to a number of required courses is limited and will be determined by academic performance. Required courses should be taken in the year indicated by the course numbers so as to avoid timetable clashes and missing prerequisites which could prolong the time necessary to complete the program. Students are advised to consult with the Department at the earliest opportunity.

Candidates for the general and honours degrees in the programs above should refer to the Faculty of Science **Degree Regulations** for the **General** and **Honours** degrees of Bachelor of Science.

Candidates for a minor in Biochemistry should refer to the **Regulations for the General Degree of Bachelor of Science**, Clause 7.

Students who intend to pursue graduate studies should take the courses leading to the honours degree.

Biochemistry course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Biochemistry**.

Note: *Supplementary examinations will be allowed in certain Biochemistry courses which have written final examinations. Students should refer to the Faculty of Science Degree Regulations for details.*

7.1.1 Admission to Programs

Students who wish to declare a Major in Biochemistry or Biochemistry (Nutrition) or who wish to apply for Honours standing in any of our programs are strongly recommended to do so by May 31 in any year. Failure to apply by the recommended date may result in your application not being processed before your registration time. In addition, students who do not declare by this date may not be considered for departmental scholarships or other awards.

7.1.2 Major in Biochemistry

Entry to the Biochemistry Majors program is based on academic standing.

1. To be considered for admission to the program students must have at least 30 credit hours in courses and have successfully completed the following courses (or their equivalents) with a minimum overall average of 60%. In addition, students must be eligible for entry to Chemistry 2400.
 - a. English 1080, 1110 (or equivalent)
 - b. Chemistry 1050, 1051 (or Chemistry 1010, 1011 or 1200, 1001)
 - c. Mathematics 1000, 1001 (or Mathematics 1090, 1000)
 - d. Physics 1050, 1051 (or Physics 1020, 1021), or Biology 1001, 1002
2. Required courses to complete the major:
 - a. Biochemistry 2100, 2101, 3105, 3106, 3107, 3108.
 - b. At least 12 credit hours in courses from Biochemistry 2600, 3203, 4002, 4101, 4103, 4104, 4200, 4201, 4230-4239.
 - c. Medicine 310A/B or 6 credit hours from Biochemistry 4240-4249, Biology 2060, 3050, 3401, 3402, 3530, 4200, 4245, 4404, Chemistry 4201.
 - d. Biology 1001 and 1002; Mathematics 1001; and Physics 1020 or 1050, and 1051 for those students who did not complete them in first year. Students may also need to complete Physics 1021 in order to fulfil this requirement.
 - e. Chemistry 1031 is required for students who complete Chemistry 1010 and 1011. It is strongly recommended that these students complete Chemistry 1031 prior to second year. See Note 2 below.
 - f. Chemistry 2300 or 2301, or Physics 2053; Chemistry 2400, 2401
 - g. One of Chemistry 2100, Environmental Sciences 3210, Environmental Sciences 3211.

Notes: 1. *Students are required to complete at least 78 credit hours in Science courses for the General Degree.*

2. *Majors who take Chemistry 1010/1011 but not Chemistry 1031 as part of their first year sequence risk waiting a whole year before they can continue taking Biochemistry program courses.*

3. *For the purposes of a Biochemistry degree, Medicine 310A/B count as Biochemistry courses.*

3. Students are encouraged to choose a minor.

7.1.2.1 Honours Degree in Biochemistry

Students normally should apply for an Honours program at the completion of their third year of studies. Honours students would normally follow the Biochemistry Majors program before applying to honours, and must meet its admissions requirements as follows:

1. To be considered for admission to the majors program prior to admission to honours, students must have at least 30 credit hours in courses and have successfully completed the following courses (or their equivalents) with a minimum overall average of 60%. In addition, students must be eligible for entry to Chemistry 2400.
 - a. English 1080, 1110 (or equivalent)
 - b. Chemistry 1050, 1051 (or Chemistry 1010, 1011, or 1200, 1001)
 - c. Mathematics 1000, 1001 (or Mathematics 1090, 1000)
 - d. Physics 1050, 1051 (or Physics 1020, 1021) or Biology 1001, 1002
2. To be eligible for admission, students must be in Honours standing. To be considered for early admission to an Honours program in Biochemistry at the end of second year, students must have achieved at least 70% in each of Biochemistry 2100 and 2101 and Chemistry 2400, 2401.
3. Required courses:
 - a. Biochemistry 2100, 2101, 3105, 3106, 3107, 3108, 4102, 499A, 499B, Medicine 310A/B.
 - b. Biochemistry 4210 or 4211.
 - c. Twelve credit hours in courses from Biochemistry 4002, 4101, 4103, 4104, 4200, 4201, 4230-4239.
 - d. At least 6 credit hours in courses from Biochemistry 2600, 3203, 4105, 4220, 4240-4249, Biology 2060, 3050, 3530, 4200, 4245, 4404, Chemistry 4201.
 - e. Biology 1001 and 1002; Mathematics 1001; and Physics 1020 or 1050, and 1051 for those students who did not complete them

in first year. Students may also need to complete Physics 1021 in order to fulfil this requirement.

- f. Chemistry 1031 is required for students who complete Chemistry 1010 and 1011. It is strongly recommended that these students complete Chemistry 1031 prior to second year. (see **Notes** below).
- g. Chemistry 2300 or 2301 or Physics 2053, Chemistry 2400, 2401, one of Chemistry 3410 or 3411.
- h. One of Chemistry 2100, Chemistry 3500, Environmental Sciences 3210, Environmental Sciences 3211.
- i. Statistics 2550 or equivalent.

Notes: 1. *Majors who take Chemistry 1010/1011 but not Chemistry 1031 as part of their first year sequence risk waiting a whole year before they can continue taking Biochemistry program courses.*
 2. *For the purposes of a Honours Degree in Biochemistry, Medicine 310A/B count as Biochemistry courses.*

4. Students are encouraged to choose a minor.

Those courses in which a grade "B" or an average of 75% or higher are required, as specified under **Academic Standing**, clause 1. of the **Regulations for the Honours Degree of Bachelor of Science**, are 45 credit hours in Biochemistry courses and 15 credit hours in other courses (beyond the 1000-level) chosen from Biochemistry, Biology, or Chemistry. Biochemistry 2010, 2011, Biology 2040, 2041 and the former Chemistry 2600, the former Chemistry 2601 may not be used to meet this requirement. Medicine 310A/B counts as Biochemistry for these 60 credit hours.

7.1.2.2 Minor in Biochemistry

Students who take a minor in Biochemistry will complete:

1. Biochemistry 2101, 3106
2. One of Biochemistry 2100, 2600, Biology 2250.
3. Nine credit hours in Biochemistry at the third or fourth year level; or 6 credit hours in Biochemistry at the third or fourth year level and Biology 3050.
4. Either Chemistry 2400, 2401 or Chemistry 2440 and 3 additional credit hours from the Biochemistry courses listed in 3. above.

Course prerequisites stipulated in the course descriptions shall apply to a minor in Biochemistry.

Note: *For the purposes of a Biochemistry minor, Medicine 310A/B count as Biochemistry courses.*

7.1.3 Nutrition Program

7.1.3.1 Major in Nutrition

Entry to the Nutrition majors program is based on academic standing.

1. To be considered for admission to the program students must have at least 30 credit hours in courses and have successfully completed the following courses (or their equivalents) with a minimum overall average of 60%.
 - a. English 1080, 1110 (or equivalent)
 - b. Chemistry 1050, 1051 (or Chemistry 1010, 1011 or 1200, 1001)
 - c. Mathematics 1090, 1000 (or Mathematics 1000 and one elective)
 - d. Biology 1001, 1002 or Physics 1020, 1021 (or equivalent)
2. Required courses to complete the major:
 - a. Biochemistry 2000 or 2005, 2100, 2101, 2600, 3106, 3203, 3402, 4300, 4301, Medicine 310A/B
 - b. Six credit hours in courses from Biochemistry 3052, 3107, 3108, 3202, 3600, 4002, 4101, 4103, 4104, 4200, 4201, 4230-4249, Biology 3050.
 - c. Biology 1001 and 1002; and Physics 1020 and 1021 (or equivalent), for those students who did not complete them in first year
 - d. Chemistry 2440 (or Chemistry 2400, 2401)
 - e. Statistics 2550 or equivalent
3. Students are encouraged to choose a minor.

Notes: 1. *Students are required to complete at least 78 credit hours in Science courses for the General Degree.*
 2. *Students who choose to complete Chemistry 2400/2401 are advised to take the appropriate prerequisites for those courses.*
 3. *For the purposes of a Biochemistry (Nutrition) degree, Medicine 310A/B count as Biochemistry courses.*

7.1.3.2 Honours Degree in Nutrition

Students normally should apply for an Honours program at the completion of their third year of studies. Honours students would normally follow the Biochemistry (Nutrition) Majors program before applying to honours, and must meet its admissions requirements as follows:

1. To be considered for admission to the majors program prior to admission to honours, students must have at least 30 credit hours in courses and have successfully completed the following courses (or their equivalents) with a minimum overall average of 60%:
 - a. English 1080, 1110 (or equivalent)
 - b. Chemistry 1050, 1051 (or Chemistry 1010, 1011, or 1200, 1001)
 - c. Mathematics 1090, 1000 (or Mathematics 1000 and one elective)
 - d. Biology 1001, 1002 or Physics 1020, 1021 (or equivalent)
2. To be eligible for admission to the honours program, students must be in Honours standing. To be considered for early admission to an Honours program in Nutrition at the end of second year, students must have achieved at least 70% in each of their required 2000 level Biochemistry and Chemistry courses.
3. Required courses:
 - a. Biochemistry 2000 or 2005, 2100, 2101, 2600, 3106, 3107, 3203, 3402, 3600, 4002, 4300, 4301, 4502, 499A, 499B, Medicine 310A/B.
 - b. Twelve additional credit hours chosen from Biochemistry 3052, 3105, 3108, 3202, 4101, 4103, 4104, 4105, 4200, 4201, 4210, 4211, 4220, 4230-4249, 4400, Biology 3050.
 - c. Biology 1001 and 1002; and Physics 1020 and 1021 (or equivalent), for those students who did not complete them in first year.
 - d. Chemistry 2440 (or Chemistry 2400, 2401).

- e. Statistics 2550 or equivalent.
4. Students are encouraged to choose a minor.
5. Those courses in which the grades specified under **Academic Standing, clause 1** of the **Regulations for the Honours Degree of Bachelor of Science** are 60 credit hours chosen from Biochemistry courses and Biology 3050.

Notes: 1. *Students who choose to complete Chemistry 2400/2401 are advised to take the appropriate prerequisites for those courses.*
 2. *For the purposes of a Biochemistry (Nutrition) Honours degree, Medicine 310A/B count as Biochemistry courses.*

7.2 Biology

www.mun.ca/biology/Home/

The following undergraduate programs are available in the Department:

1. Biochemistry and Cell Biology Joint Honours
2. Biology and Earth Sciences (Geology) Joint Honours
3. Biology and Psychology Joint Honours
4. Biology and Psychology (Behavioural Neuroscience) Joint Honours
5. Biology and Statistics Joint Honours
6. Major or Honours in Biology
7. Major or Honours in Biology (Cell and Molecular)
8. Major or Honours in Biology (Ecology and Conservation)
9. Major or Honours in Biology (Marine)
10. Minor in Biology

Details of joint programs are given after the **Regulations for the Honours Degree of Bachelor of Science**.

Biology course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Biology**.

7.2.1 Entrance Requirements

Entry to the Biology Majors Program is competitive and based on academic standing.

To be considered for admission to the program students must have completed Biology 1001/1002 with an average of at least 65%. In addition, applicants will normally have completed the following courses (or their equivalents) and must have a minimum overall average of 60% in these courses.

1. English 1080, 1110 or equivalent
2. Mathematics 1090 and Mathematics 1000 (or Mathematics 1000 only)
3. Chemistry 1010/1011 (or equivalent) or Physics 1020/1021 (or equivalent)
4. If Mathematics 1000 taken, any one other first year course.

Chemistry 1010/1011 (or 1050/1051) should be taken in the first year, as it is a prerequisite for other required courses in the programs, and delaying chemistry until second year may make it difficult to complete the program in the normal eight semesters.

7.2.2 Minor in Biology

A minor in Biology will consist of 24 credit hours in Biology courses: 1001 and 1002 (or equivalent) plus any 18 credit hours chosen from the list of Biology courses except Biology 2040, 2041, 2120, and 3053. The choice of courses must be made in consultation with the Head of Biology or delegate and it is recommended (but not required) that students take at least two Biology courses at the 3000 level or above

7.2.3 General Degrees

Each Major is assigned a faculty advisor who should be consulted on academic problems, including course selection.

7.2.3.1 Major in Biology

All students majoring in Biology are required to complete a minimum of 45 credit hours in courses from the Department of Biology offering. Those 45 credit hours must include: Biology 1001 and 1002 or their equivalents; the 15 credit hours in core courses listed below; and 24 credit hours in Biology electives at the 2000, 3000 or 4000 level.

Biology Core (15 credit hours): Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 and 4404.

A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

All majors must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Extra Science courses as necessary to fulfil the requirement for 78 credit hours in Science as stipulated in Clause 3.a. of the **Regulations for the General Degree of Bachelor of Science**.

It is recommended, but not required, that a Computer Science course be included and the Department of Biology strongly recommends Computer Science 2650.

Note: *To minimize timetabling problems, students on the St. John's campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and 2060 and 2900 in their fourth semester (Winter).*

7.2.3.2 Major in Biology (Cell and Molecular)

All students majoring in Biology (Cell and Molecular) are required to complete a minimum of 45 credit hours in courses from the

Department of Biology offering. Those 45 credit hours must include: Biology 1001 and 1002 or their equivalents; the 15 credit hours in core courses listed below; Biology 3530 and 4241; 6 credit hours from the recommended Biology courses for Biology (Cell and Molecular) listed below; and 12 credit hours from Biology electives at the 2000, 3000 or 4000 level.

Biology Core (15 credit hours): Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 and 4404.

Recommended Biology courses for Biology (Cell and Molecular) are 3050, 3052, 3401, 3402, 3500, 3620, 3950, 3951, 4000, 4010, 4040, 4050, 4200, 4245, 4250, 4251, 4255, 4404, 4550, and 4605.

A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

All majors must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Extra Science courses as necessary to fulfil the requirement for 78 credit hours in Science as stipulated in Clause 3.a. of the **Regulations for the General Degree of Bachelor of Science.**

It is recommended, but not required, that a Computer Science course be included and the Department of Biology strongly recommends Computer Science 2650.

Note: To minimize timetabling problems, students on the St. John's campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and 2060 and 2900 in their fourth semester (Winter).

7.2.3.3 Major in Biology (Ecology and Conservation)

All students majoring in Biology (Ecology and Conservation) are required to complete a minimum of 45 credit hours in courses from the Department of Biology offering. Those 45 credit hours must include: Biology 1001 and 1002 or their equivalents; the 15 credit hours in core courses listed below; Biology 4650 and 4651; 6 credit hours from the recommended Biology courses for Biology (Ecology and Conservation) listed below; and 12 credit hours from Biology electives at the 2000, 3000 or 4000 level.

Biology Core (15 credit hours): Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 and 4404.

Recommended Biology courses for Biology (Ecology and Conservation) are 3041, 3050, 3295, 3300, 3610, 3620, 3640, 3709, 3710, 3711, 3714, 3715, 3750, 4040, 4141, 4180, 4182, 4250, 4306, 4307, 4360, 4405, 4505, 4605, 4620, 4630, 4701, 4710, 4750, and 4820.

A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

All majors must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Extra Science courses as necessary to fulfil the requirement for 78 credit hours in Science as stipulated in Clause 3.a. of the **Regulations for the General Degree of Bachelor of Science.**

It is recommended, but not required, that a Computer Science course be included and the Department of Biology strongly recommends Computer Science 2650.

Note: To minimize timetabling problems, students on the St. John's campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and 2060 and 2900 in their fourth semester (Winter).

7.2.3.4 Major in Biology (Marine)

All students majoring in Biology (Marine) are required to complete a minimum of 45 credit hours in courses from the Department of Biology offering. Those 45 credit hours must include: Biology 1001 and 1002 or their equivalents; the 15 credit hours in core courses listed below; Biology 3710 and 3711; 6 credit hours from the recommended Biology courses for Biology (Marine) listed below; and 12 credit hours from Biology electives at the 2000, 3000 or 4000 level.

Biology Core (15 credit hours): Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 and 4404.

Recommended Biology courses for Biology (Marine) are 3050, 3295, 3620, 3640, 3709, 3712, 3714, 3715, 4014, 4122, 4141, 4182, 4360, 4601, 4605, 4620, 4630, 4710, 4750, 4810, 4912.

A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

All majors must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Extra Science courses as necessary to fulfil the requirement for 78 credit hours in Science as stipulated in Clause 3.a. of the **Regulations for the General Degree of Bachelor of Science.**

It is recommended, but not required, that a Computer Science course be included and the Department of Biology strongly recommends Computer Science 2650.

Note: To minimize timetabling problems, students on the St. John's campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and 2060 and 2900 in their fourth semester (Winter).

7.2.4 Honours Degrees

The attention of students wishing to take Honours is called to those sections of the Calendar dealing with Regulations for the Degree of Bachelor of Science (Honours).

Sixty-nine credit hours in courses, including the 6 first year credit hours and the 15 required core credit hours outlined in the regulations for the General Degree, and the Honours Dissertation (Biology 499A/499B), shall be taken from the Department of Biology offering. Students may elect to complete an Honours Program in Biology or in one of the joint Honours Programs listed under the heading "Programs in Biology". Programs of students taking Honours shall be drawn up in consultation with the student's supervisor, and must be approved by the Head of the Department (or his/her delegate) in accordance with **Admission and Registration**, clause 2. of the **Regulations for the Honours Degree of Bachelor of Science**.

Note: Some Graduate Courses may be taken in the final year of the Honours Program with the permission of the Head of the Department and the course instructor.

A dissertation (6 credit hours) is to be presented on some original piece of work undertaken by the candidate, under the guidance of a faculty member of the department, as appointed by the Head of Department. For students electing to take one of the Joint Honours Programs, the dissertation shall be on a topic representative of the selected program. The Department of Biology considers the dissertation to be an important part of the Honours Program.

The dissertation will be based on a 6 credit hours course (Biology 499A/499B). It will involve directed reading relevant to the dissertation topic, preparation of a dissertation outline, supervised research, data synthesis and interpretation, and preparation and defence of the dissertation.

Two typed copies of the dissertation, complete with figures and tables, are to be submitted not less than two weeks before the end of lectures in the semester in which the candidate is registered for Biology 499B. These copies must be submitted to the Head of Department, and must have met the prior approval of the candidate's Honours supervisor.

Before the last day for examinations in the semester, the candidate will be examined orally on the contents of the dissertation. The examining committee shall consist of the Head of the Department, or delegate, the candidate's supervisor, and an examiner appointed by the Head of the Department in consultation with the candidate's supervisor.

7.2.5 Honours in Biology

An Honours degree in Biology may comprise a broadly based selection of courses according to the student's interests, or it may be more narrowly focussed. An Honours student may focus on any area of Biology where an appropriate supervisor can be found. All Honours students should choose courses in consultation with their supervisors, but it is particularly important that students wishing to focus within the Honours degree should discuss course selection with an Honours supervisor within their area of interest.

7.2.5.1 Biology Course Requirements

Students seeking an honours degree in Biology are required to successfully complete a minimum of 69 credit hours in courses from the Department of Biology offering. Those 69 credit hours must include:

1. Biology 1001 and 1002 or their equivalents;
2. 15 credit hours in the following core courses: Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 or 4404; and
3. 42 credit hours from Biology electives at the 2000, 3000 or 4000 level (except Biology 2040, 2041, 2120, and 3053) and Biology 499A and 499B.
4. A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

7.2.5.2 Core Course Requirements

All honours students must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Electives to make up 120 credit hours

To minimize timetabling problems, students on the St. John's Campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and Biology 2060 and 2900 in their fourth semester (Winter).

7.2.6 Honours in Cell and Molecular Biology

7.2.6.1 Cell and Molecular Biology Course Requirements

Students seeking an honours degree in Cell and Molecular Biology are required to complete a minimum of 69 credit hours in courses from the Department of Biology offering. Those 69 credit hours must include:

1. Biology 1001 and 1002 or their equivalents;
2. 15 credit hours in the following core courses: Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 or 4404;
3. Biology 3530 and Biology 4241;
4. 12 credit hours from the following recommended Biology courses for Cell and Molecular Biology: Biology 3050, 3052, 3401, 3402, 3500, 3620, 3950, 3951, 4010, 4040, 4050, 4200, 4245, 4250, 4251, 4255, 4404, 4550, 4605; and
5. 24 credit hours in Biology electives at the 2000, 3000 or 4000 level (except Biology 2040, 2041, 2120, and 3053) and Biology 499A and 499B.
6. A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

7.2.6.2 Core Course Requirements

All honours students must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)

2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Electives to make up 120 credit hours

To minimize timetabling problems, students on the St. John's Campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and Biology 2060 and 2900 in their fourth semester (Winter).

7.2.7 Honours in Ecology and Conservation Biology

7.2.7.1 Ecology and Conservation Biology Course Requirements

Students seeking an honours degree in Ecology and Conservation Biology are required to complete a minimum of 69 credit hours in courses from the Department of Biology offering. Those 69 credit hours must include:

1. Biology 1001 and 1002 or their equivalents;
2. 15 credit hours in the following core courses: Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 or 4404;
3. Biology 4650 and 4651;
4. 12 credit hours from the following recommended biology courses for Ecology and Conservation Biology: Biology 3041, 3050, 3295, 3300, 3610, 3620, 3640, 3709, 3710, 3711, 3714, 3715, 3750, 4040, 4141, 4180, 4182, 4250, 4306, 4307, 4360, 4405, 4505, 4605, 4620, 4630, 4701, 4710, 4750, 4820; and
5. 24 credit hours in Biology electives at the 2000, 3000 or 4000 level (except Biology 2040, 2041, 2120, and 3053) and Biology 499A and 499B.
6. A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

7.2.7.2 Core Course Requirements

All honours students must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Electives to make up 120 credit hours

To minimize timetabling problems, students on the St. John's Campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and Biology 2060 and 2900 in their fourth semester (Winter).

7.2.8 Honours in Marine Biology

7.2.8.1 Marine Biology Course Requirements

Students seeking an honours degree in Marine Biology are required to complete a minimum of 69 credit hours in courses from the Department of Biology offering. Those 69 credit hours must include:

1. Biology 1001 and 1002 or their equivalents;
2. 15 credit hours in the following core courses: Biology 2060, 2250, 2600, 2900, plus one of Biology 3401, 3402, 4245 or 4404;
3. Biology 3710 and 3711;
4. 12 credit hours from the following recommended biology courses for Marine Biology: Biology 3050, 3052, 3295, 3620, 3640, 3709, 3710, 3712, 3714, 3715, 3951, 4014, 4050, 4122, 4141, 4182, 4360, 4601, 4605, 4620, 4630, 4710, 4750, 4810, 4912; and
5. 24 credit hours in Biology electives at the 2000, 3000 or 4000 level (except Biology 2040, 2041, 2120, and 3053) and Biology 499A and 499B.
6. A maximum of 9 credit hours can be in Biology courses with no associated laboratory/seminar.

7.2.8.2 Core Course Requirements

All honours students must also successfully complete the following courses or their equivalents:

1. English 1080 and 1110 (or equivalent)
2. Physics 1020 and 1021 (or equivalent)
3. Mathematics 1000
4. Chemistry 1010 and 1011 (or equivalent), Chemistry 2440
5. Statistics 2550
6. Biochemistry 2101 and 3106
7. Electives to make up 120 credit hours

To minimize timetabling problems, students on the St. John's Campus are advised to take Biology 2250 and 2600 in their third semester (Fall), and Biology 2060 and 2900 in their fourth semester (Winter).

7.3 Chemistry

www.chem.mun.ca/

The following undergraduate programs are available in the Department:

1. Applied Mathematics and Chemistry Joint Honours

2. Biochemistry and Chemistry Joint Honours
3. Chemistry and Earth Sciences Joint Honours
4. Chemistry and Physics Joint Honours
5. Major or Honours in Chemistry
6. Minor in Chemistry
7. Major or Honours in Computational Chemistry

The Major, Honours, and Joint Honours with Applied Mathematics, Biochemistry and Physics are accredited by the Canadian Society for Chemistry.

Details of joint programs are given under **Joint Programs**.

Chemistry course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Chemistry**.

7.3.1 Undergraduate Handbook

Additional information about the undergraduate program, individual courses and suggested timetables can be found in the Department of Chemistry Undergraduate Handbook which is available on the web at www.chem.mun.ca.

7.3.2 Faculty Advisors

Each student majoring in Chemistry will be assigned a Faculty Advisor who should be consulted on all academic matters. Individual programs must be drawn up in consultation with the advisor.

Note: *Students who have obtained a grade of 3 or better on the Advanced Placement courses in Chemistry will normally be eligible for direct entry into Chemistry 1031 or second year courses. Such students must consult the Department before registration.*

7.3.3 Minor in Chemistry

Candidates who take a minor in Chemistry will complete Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or equivalent, Chemistry 2100, 2210, 2301 (or 2300), 2302, 2400, and 2401.

7.3.4 General Degree - Major in Chemistry

The courses required for a Major in Chemistry are:

1. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or equivalent, 2100, 2210, 2301 (or 2300), 2302, 2400, 2401, 3110, 3210, 3211, 3303, 3410, 3411, and 3500.
2. Physics 1050 (or 1020 and 1021) and 1051.
3. Mathematics 1000, 1001, 2000, and 2050.
4. Biochemistry 2101

Recommended courses: Mathematics 2051, Physics 2820 and/or 2750, and 6 credit hours in one of the following languages: French, German, or Russian.

Students considering declaring Chemistry as their Major are encouraged to contact either the Department Head or the Deputy Head (Undergraduate Studies).

7.3.5 Honours Degree in Chemistry

Students wishing to take Honours should consult those sections of the Calendar dealing with **Regulations for the Honours Degree of Bachelor of Science**. The Honours program in Chemistry consists of at least 63 credit hours in Chemistry courses. It is recommended that candidates also take groups of 18 or more credit hours in each of two other science subjects, normally Biochemistry, Biology, Earth Sciences, Physics, or Mathematics.

7.3.5.1 Required Courses

1. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or equivalent, Chemistry 2100, 2210, 2301 (or 2300), 2302, 2400, 2401, 3110, 3210, 3211, 3303, 3410, 3411, 3500, 490A/B and 12 credit hours selected from the remaining 4000-level Chemistry courses.
2. Physics 1050 (or 1020 and 1021) and 1051.
3. Mathematics 1000, 1001, 2000, and 2050.
4. Biochemistry 2101

7.3.5.2 Other Information

1. Those courses in which a grade of B or an average of 75% or higher are required, as specified in **Regulations for the Honours Degree of Bachelor of Science, Academic Standing**, clause a., are the courses beyond first year used to satisfy clause 1. under **Required Courses** above, and Biochemistry 2101.
2. Recommended courses: Biochemistry 2100, Mathematics 2051, Physics 2820 and/or 2750.
3. A thesis based on a selected research topic carried out under the supervision of a member of the Department is to be submitted in the final year.
4. Chemistry 490A/B will normally require the equivalent of nine hours per week for two semesters. Registration in Chemistry 490A/B is restricted to those students who have honours standing. The Honours dissertation will be assessed by a committee comprising the supervisor and two other faculty members.
5. With approval of the Heads of the Chemistry and Biochemistry Departments prior to registration, a number of courses in Biochemistry may be substituted for a like number of Chemistry courses.
6. Six credit hours in one language are recommended: French, German or Russian should be selected in consultation with the Department Head.
7. Prospective Honours students in Chemistry in their first year should take
 - a. Six credit hours in English.
 - b. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or their equivalents.
 - c. Physics 1050 and 1051 or 1020 and 1021.

- d. Mathematics 1000 and 1001.
- e. Six credit hours in other courses.
8. Given appropriate circumstances the Honours Chemistry program may be completed in four years. Students should consult the Undergraduate Student Handbook for timetabling details.
9. Students completing first year requirements for any of Chemistry, Mathematics or Physics via the three course options (i.e. Chemistry 1010, 1011, 1031 (or the former 1800, 1200, 1001), Mathematics 1090, 1000, 1001, Physics 1020, 1021, 1051) instead of the two course options (Chemistry 1050, 1051, Mathematics 1000, 1001, Physics 1050, 1051) will require the corresponding number of extra credits to obtain an Honours degree.
10. Arrangements for subsequent years will depend on the other science subjects being studied and should be made in consultation with the Faculty Advisor.
11. Certain advanced courses may only be offered in alternate years. Candidates therefore should consult the Head of the Department before registration
12. Certain of the Graduate courses may be taken in the final year of the Honours Program with the permission of the Head of the Department.
13. Details of Joint Honours programs with Biochemistry, Earth Sciences, Mathematics and Physics are outlined under **Joint Programs**.

7.3.6 General Degree - Major in Computational Chemistry

Students wishing to take a Major in Computational Chemistry should consult those regulations of the Calendar dealing with **Regulations for the General Degree of Bachelor of Science**.

7.3.6.1 Required Courses

1. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or equivalent, 2100, 2210, 2301 (or 2300), 2302, 2400, 2401, 3211, 3303, 4304, and a 3 credit hour chemistry course at the 4th year level.
2. Physics 1050 (or 1020 and 1021), 1051, and 2820.
3. Mathematics 1000, 1001, 2000, 2050, 2051, 2320, 3202, and 3260.
4. Computer Science 1510, 1710, 2710, 2711, 3719, and 3731.
5. English 1080 and English 1110 or equivalent.
6. A sufficient number of elective courses to bring the degree up to a total of 120 credit hours must also be completed.

Recommended courses: Mathematics 3161, 3240, Chemistry 3110, 3210, 3410, 3411, Computer Science 2500, 3550, 4XXX.

Recommended electives: Biochemistry 2101, Physics 3800.

7.3.6.2 Suggested Program of Study

Given appropriate circumstances the Major in Computational Chemistry program can be completed in four years. While students should consult the Undergraduate Handbook for further timetabling details, to complete the program in four years generally will require that students take the following courses in their first year:

1. English 1080 and English 1110 or equivalent.
2. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or their equivalents.
3. Physics 1050 (or 1020 and 1021), and 1051.
4. Mathematics 1000 and 1001
5. Computer Science 1510 and 1710

Students who complete the major will also have completed the required courses for a minor in Mathematics.

7.3.7 Honours Degree in Computational Chemistry

Students wishing to take Honours in Computational Chemistry should consult those sections of the Calendar dealing with **Regulations for the Honours Degree of Bachelor of Science**. The Honours program in Computational Chemistry consists of a minimum of 42 credit hours in Chemistry, a minimum of 24 credit hours in Mathematics, and a minimum of 18 credit hours in Computer Science. An additional 6 credit hours in recommended Chemistry, Mathematics or Computer Science courses are also required in addition to the minimum credit hour requirements.

7.3.7.1 Required Courses

1. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or equivalent, 2100, 2210, 2301 (or 2300), 2302, 2400, 2401, 3211, 3303, 4304, and a 3 credit hour chemistry course at the 4th year level.
2. Physics 1050 (or 1020 and 1021), 1051, and 2820.
3. Mathematics 1000, 1001, 2000, 2050, 2051, 2320, 3202, and 3260.
4. Computer Science 1510, 1710, 2710, 2711, 3719, and 3731.
5. Chemistry 490A/B.
6. English 1080 and English 1110 or equivalent.
7. Two of the recommended courses.
8. A sufficient number of elective courses to bring the degree up to a total of 120 credit hours must also be completed.

Recommended courses: Mathematics 3161, 3240, Chemistry 3110, 3210, 3410, 3411, Computer Science 2500, 3550, 4XXX.

Recommended electives: Biochemistry 2101, Physics 3800.

7.3.7.2 Suggested Program of Study

Given appropriate circumstances the Honours in Computational Chemistry program can be completed in four years. While students should consult the Undergraduate Handbook for further timetabling details, to complete the program in four years generally will require that students take the following courses in their first year:

1. English 1080 and English 1110 or equivalent.
2. Chemistry 1050 and 1051 (or 1010, 1011 and 1031) or their equivalents.

3. Physics 1050 (or 1020 and 1021), and 1051.
4. Mathematics 1000 and 1001
5. Computer Science 1510 and 1710

7.3.7.3 Other Information

1. Students who complete the Honours program will also have completed the required course for a minor in Mathematics.
2. Those courses in which a grade of B or an average of 75% or higher are required, as specified in **Regulations for the Honours Degree of Bachelor of Science, Academic Standing**, are the courses beyond first year used to satisfy the required course list.
3. A thesis based on a selected research topic carried out under the supervision of a member of the Department is to be submitted in the final year.
4. Chemistry 490A/B will normally require the equivalent of nine hours per week for two semesters. Registration in Chemistry 490A/B is restricted to those students who have Honours standing. The Honours dissertation will be assessed by a committee comprising the supervisor and two other faculty members.
5. Students completing first year requirements for any of Chemistry, Mathematics or Physics via the three course options (i.e. Chemistry 1010, 1011, 1031 (or the former 1800, 1200, 1001), Mathematics 1090, 1000, 1001, Physics 1020, 1021, 1051) instead of the two course options (Chemistry 1050, 1051, Mathematics 1000, 1001, Physics 1050, 1051) will require the corresponding number of extra credits to obtain an Honours degree.
6. Arrangements for subsequent years will depend on the other science subjects being studied and should be made in consultation with the Faculty Advisor.
7. Certain advanced courses may only be offered in alternate years. Candidates therefore should consult the Head of the Department before registration.
8. Certain of the Graduate courses may be taken in the final year of the Honours Program with the permission of the Head of the Department.

7.3.8 Course Restrictions

Students should be aware of a number of credit restrictions. For further information see the Chemistry course descriptions section found at the end of the Faculty of Science section under **Course Descriptions, Chemistry**.

7.4 Computer Science

www.mun.ca/computerscience/

The following undergraduate programs are available in the Department:

1. Applied Mathematics and Computer Science Joint Major (B.Sc. only)
2. Computer Internship Option (CIIO) (B.Sc. and B.Sc. Honours only)
3. Computer Science Honours (B.A., B.Sc.)
4. Computer Science and Economics Joint Major (B.Sc. Only)
5. Computer Science and Geography Joint Honours (B.Sc. only)
6. Computer Science and Geography Joint Major (B.Sc. only)
7. Computer Science and Physics Joint Honours
8. Computer Science and Physics Joint Major
9. Computer Science and Pure Mathematics Joint Honours (B.Sc. only)
10. Computer Science and Pure Mathematics Joint Major (B.Sc. only)
11. Computer Science and Statistics Joint Honours
12. Computer Science and Statistics Joint Major (B.Sc. only)
13. Computer Science (Software Engineering) Honours (B.Sc. only)
14. Major in Computer Science (B.A., B.Sc.)
15. Minor in Computer Science (B.A., B.Sc.)

Details of our joint program offerings in the Faculties of Arts and Science may be found under the heading **Joint Programs** following the heading **Regulations for the Honours Degree of Bachelor of Science**.

Computer Science course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Computer Science**.

7.4.1 Major in Computer Science

1. Forty-five credit hours in Computer Science courses are required for a major in Computer Science:
 - a. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, and 4770.
 - b. At least 6 additional credit hours at the 4000 level in Computer Science courses.
 - c. Three additional credit hours in Computer Science courses at the 3000 level or beyond.
2. Additional courses required of the Majors are: Mathematics 2000, 2050, 2320, and Statistics 1510 or 2510.

Note: *Students are encouraged to take Business 2000, Mathematics 3000, and Statistics 2560.*

7.4.2 Honours in Computer Science

1. See **Regulations for the Honours Degree of Bachelor of Arts** or **Regulations for the Honours Degree of Bachelor of Science** as appropriate).
2. Sixty-three credit hours in Computer Science courses are required for the Honours Degree in Computer Science, including:
 - a. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3719, 3724, 3725, 3754, 4770, and 4780.
 - b. Eighteen additional credit hours in Computer Science at the 4000 level.
 - c. Six additional credit hours in Computer Science courses at the 3000 level or beyond.

3. Additional courses required are: Mathematics 2000, 2050, 2320, and Statistics 1510 or 2510.

Note: *Students are encouraged to take Business 2000, Mathematics 3000, and Statistics 2560.*

7.4.3 Honours in Computer Science (Software Engineering) (B.Sc. Only)

Completion of the Honours in Computer Science (Software Engineering) Program does not qualify persons to hold the designation "Professional Engineer" as defined by various Provincial Acts governing the Engineering Profession.

1. See **Regulations for the Honours Degree of Bachelor of Science**.
2. Sixty-three credit hours in Computer Science courses are required for the Honours Degree in Computer Science (Software Engineering), including:
 - a. Computer Science 1710, 2710, 2711, 2742, 2760, 3715, 3716, 3718, 3719, 3724, 3725, 3754, 4719, 4759, 4770, and 4780.
 - b. Twelve additional credit hours in Computer Science courses at the 4000 level.
 - c. Three additional credit hours in Computer Science courses at the 3000 level or beyond.
3. Additional courses required are: Mathematics 2000, 2050, 2320, and Statistics 1510 or 2510.

Note: *The Honours project (4780) must be in the area of Software Engineering.*

7.4.4 Computer Industry Internship Option (CIIO):

The Computer Industry Internship Option (CIIO) provides an opportunity for qualified students to obtain rewarding placements that help them develop practical skills in a real work setting before graduation. The CIIO is available to Computer Science Majors (B.Sc. and B.Sc. Honours only) who will typically apply between their third and fourth year of studies.

7.4.4.1 Admission Requirements

In order to be considered for admission to the CIIO, an applicant must:

1. be a declared Computer Science Major;
2. have successfully completed Computer Science 1710, 2710, 2711, 2742, 2760, 3716, and any two other core 3000-level computer science courses; and
3. have at least one computer science course left to complete after the internship.

In addition to meeting the above applicants are also subject to academic performance.

7.4.4.2 Internship Duration:

Subject to the availability of job openings, a student may choose either an 8, 12 or 16 consecutive month internship period.

7.4.4.3 Internship Guidelines:

1. Internship employment is normally organized by the Co-op Education Co-ordinator (hereafter referred to as the Co-ordinator); however, students who have been accepted to the CIIO may also obtain their own internship placements. All placements are subject to the approval of the Co-ordinator and of the Head of the Department of Computer Science.
2. Students who have applied to the internship program give permission to the Co-ordinator to supply prospective employers with copies of their resume and transcript.
3. After being placed with an employer, students are not permitted to drop their internship without prior approval from the Co-ordinator and the Head of the Department of Computer Science. Students who drop an internship without permission, who fail to honour an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the placements, will normally be awarded a fail grade for the internship period and may not be permitted to reapply.

Note: *Students should also refer to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.*

7.4.4.4 Expectation of Work

Within a month of starting the internship, students are required to submit a list of their work term objectives. They are also required to submit a progress report due the last day of classes of each semester in which they are working. The work term objectives and progress reports are to be submitted to the Co-ordinator.

At the end of the internship period, students are required to submit a final report which will include a description of their internship projects and activities as well as their original objectives and accomplishments. The final report is to be submitted to the Co-ordinator by the last day of classes of the semester in question. A completed Employer Evaluation Form should be submitted to the Co-ordinator at the end of the internship period.

7.4.4.5 Registration, Assessment of Performance, and Assignment of Grades:

Students must register for the course Computer Science 3700 every semester during their internship.

Computer Science 3700 is a non-credit course open only to students who have been accepted into the Internship Program.

During the internship, the employer and intern will complete student performance evaluations every four months and will submit them to the Co-ordinator. The final assessment of total work performed is the responsibility of the Co-ordinator, and will be based upon both input from the employer and the intern's final report.

At the end of the internship, each intern will be assigned one of the following grades after the final assessment of their performance:

1. Pass with Distinction (PWD): Indicates excellent performance in both the work report and work performance.
2. Pass (PAS): Indicates that performance meets expectations in both the work report and the work performance.
3. Fail (FAL): Indicates failing performance in the work report or the work performance.

Also, the following will be noted in the transcript of the intern:

1. Requirements for the Computer Industry Internship Option have been completed. Internship Duration: - months.
2. A grade of NC (No Credit) for Computer Science 3700 will be awarded in all semesters of the Internship Option prior to the final Semester.

7.4.4.6 CIIO and Honours Program:

In case a student is enrolled in both the Honours program and the CIIO, the requirements of both must be met. Upon approval from the

honours project supervisor, within the Department, the employer and the Head of the Department of Computer Science, an internship project may be submitted as a component of an honours project. These arrangements must be made within the first semester of the Internship placement.

7.4.5 Minor in Computer Science

For a Minor in Computer Science, a student must complete at least 24 credit hours in Computer Science courses, including:

1. Computer Science 1710, 2710, 2711.
2. At least 6 credit hours selected from Computer Science 3715, 3716, 3719, 3724, 3725, and 3754.
3. Three additional credit hours at the 3000 level or above.

7.4.6 Course Numbering Scheme

There are five areas of Computer Science offered in the 3000- and 4000-level courses. The meaning of the third digit of a course number is as follows:

- 1- Programming Languages
- 2- Computer Systems
- 3- Numerical Computations
- 4- Theoretical Aspects
- 5,6- Applications (e.g. Artificial Intelligence, Computer Graphics, Data Base, Robotics, Computational Geometry, Image Processing, Computer Networking, Computer Aided Design)
- 7 - Project Course
- 8- Honours Project
- 9- Directed Readings

7.4.7 Supplementary Examinations

Supplementary examinations will be allowed in certain Computer Science courses which have written final examinations. Students should refer to the Faculty of Science degree regulations for details.

7.4.8 Faculty Advisors

The Department has an Undergraduate Advisor for Computer Science majors to consult with on academic matters.

7.4.9 Undergraduate Handbook

Additional information about the undergraduate Computer Science programs and courses can be found in the Computer Science Undergraduate Handbook available from the General Office, Department of Computer Science or from www.mun.ca/computerscience/.

7.5 Earth Sciences

www.mun.ca/earthsciences/

The following undergraduate programs are available:

120 credit hour programs

1. Chemistry and Earth Sciences Joint Honours
2. Earth Sciences and Geography Joint Honours
3. Earth Sciences and Physics Joint Honours
4. Earth Sciences and Physics Joint Major
5. General or Honours degrees in Earth Sciences
6. Geophysics and Physical Oceanography Joint Honours

135 credit hour program

1. Biology and Earth Sciences Joint Honours

24 credit hour program

1. Minor in Earth Sciences

Although Honours programs can be completed in 120 credit hours, students who do not select the prescribed **Common Block of Required Courses** will normally need more than 120 credit hours to satisfy degree requirements.

Earth Sciences course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Earth Sciences**.

7.5.1 Undergraduate Handbook

Additional information about the undergraduate program, individual courses and suggested timetables can be found in the Department of Earth Sciences Undergraduate Handbook which is available on the web at www.mun.ca/earthsciences/.

7.5.2 Entrance Requirements

In order to be formally admitted to major programs in Earth Sciences, students must have successfully completed 3 first-year credit hours in each of the following departments: English, Mathematics, Earth Sciences, Chemistry and Physics; these courses must be selected from the list of required courses for degree programs in Earth Sciences. Students are encouraged to declare their major in their first year of study at the university.

Most of the 2000 level Earth Sciences courses that are required for major and minor programs in Earth Sciences have Physics and Chemistry prerequisites, and students are advised to complete these prerequisites in their first year of study.

Students will not normally be permitted entry to 3000 level (or above) Earth Sciences courses without having completed all 1000-level courses listed in the **Common Block of Required Courses** specified in Clause 1. in the **Major Programs in Earth Sciences**.

7.5.3 Minor in Earth Sciences

A Minor in Earth Sciences will consist of the following:

1. Earth Sciences 1000, 1002, 2030, 2031, 2401 or 2702.
2. Nine credit hours chosen from Earth Sciences courses at the 2000 level or higher with at least 3 credit hours from courses at the 3000 level or higher. Credit hours from Earth Sciences 2150, 2311, 2914, 2915, 2916, 2917, 2918, 4310 and 4950 cannot be used to fulfil this requirement.

Several of the courses at 3000 level or higher have Earth Sciences 2502 and 2905 as co- or prerequisites.

7.5.4 Major Programs in Earth Sciences

Programs in Earth Sciences consist of a **Common Block of Required Courses** (below), and additional courses that depend on the degree being sought.

7.5.4.1 Common Block of Required Courses

All majors in Earth Sciences must complete those courses specified in Clauses 1. through 4. Students should examine prerequisites of 3000 level courses in order to decide which course to select under Clauses 3. and 4.

1. English 1080 and 1110 (or equivalent), Mathematics 1000 and 1001, Earth Sciences 1000 and 1002, one of Chemistry 1010 or 1050 (or equivalent) and one of Chemistry 1011 or 1051 (or equivalent), Physics 1050 and 1051 or Physics 1020 and 1021. Students are advised to consult the Department of Physics Course Descriptions section for credit restrictions.

Students who intend or are required to complete higher level Physics courses must complete Physics 1051 as well, since it is a prerequisite for higher level Physics courses. Students should review the Department of Physics Calendar entry for these courses.

2. Earth Sciences 2030, 2031, 2401, 2502, 2702, 2905, 3420, 3905.
3. Mathematics 2000 or Statistics 2510 or Statistics 2550.
4. Either Biology 2120 (or Biology 1001 and 1002); or both Physics 2055 and Physics 2820.

Students must ensure that the prerequisites for Earth Sciences courses are fulfilled. Great difficulties in timetabling may be encountered if the required first-year courses are not completed before the beginning of second year.

7.5.5 Honours B.Sc. Degree in Earth Sciences

Geoscientific careers vary widely in required background. The Honours B.Sc. program is designed with considerable choice in order that students may personalize their programs based on career goals. Note that the flexibility afforded by this program is not without limits. Some courses have prerequisites, and it is ultimately the student's responsibility to ensure that these prerequisites are satisfied. Students should consult faculty members and the departmental Student Handbook for guidance in selecting courses appropriate to particular career paths.

In addition to the **Common Block of Required Courses** listed under **Major Programs in Earth Sciences**, the following requirements must be completed to qualify for the Honours B.Sc. degree in Earth Sciences:

1. Earth Sciences 499A and 499B.
2. At least 27 additional credit hours from Earth Sciences courses at 3000 and/or 4000 levels with a minimum of 12 credit hours from courses at the 4000 level. Credit hours from Earth Sciences 4310 and 4950 cannot be used to fulfill this requirement.
3. Six credit hours from the Faculty of Science courses numbered 2000 or higher. Credit hours from Earth Sciences courses, Biology 3811 and the former Physics 2050 are excluded. However, Physics 2820 is permitted.
4. Additional credit hours selected to conform with regulations for the Honours Degree of Bachelor Science so as to achieve a total of 120 credit hours. Students are encouraged to complete a minor in another department.
5. Three of the credit hours used to fulfill either requirement 3. or 4. above must be from Biology, Chemistry, Computer Science, Statistics or Physics. They may be from Mathematics only if Mathematics 2000 has not been taken as part of the **Common Block of Required Courses**.

7.5.6 General B.Sc. Degree in Earth Sciences

In addition to the **Common Block of Required Courses** listed under **Major Programs in Earth Sciences**, the following requirements must be completed to qualify for the General B.Sc. degree in Earth Sciences:

1. Eighteen additional credit hours from Earth Sciences courses at 3000 and/or 4000 levels with a minimum of 9 credit hours from courses at 4000 level. Credit hours from Earth Sciences 4310, 4950 and 499A/B cannot be used to fulfill this requirement.
2. Six credit hours from Science Faculty courses numbered 2000 or higher. Credit hours from Earth Sciences courses, Biology 3811 and the former Physics 2050 are excluded. However, Physics 2820 is permitted.
3. Additional credit hours selected to conform with regulations for the General Degree of Bachelor Science so as to achieve a total of 120 credit hours. Students are encouraged to complete a minor in another department.

Students are advised that this is the minimum requirement for the General B.Sc. in Earth Sciences. Many provinces, including Newfoundland and Labrador, have legislation requiring registration of professional geoscientists. A basic requirement for registration is, in most cases, the course equivalent of an Honours B.Sc. degree. Students intending to make a career in Earth Sciences should consider taking the Honours Degree program of courses, regardless of whether honours standing is maintained.

7.5.7 Credit Restrictions for Present Earth Sciences (EASC) Courses with Former Courses Table

Present	Former Equivalents	Present	Former Equivalents
EASC 1000	EASC 1010, Geology 1000, Geology 1010	EASC 3611	EASC 4611
EASC 1001	EASC 1011, Geology 1001, Geology 1011	EASC 3705	EASC 4700, Geology 3070
EASC 2030	EASC 203A, Geology 203A	EASC 3811	EASC 3801, EASC 2801, Geology 2801
EASC 2031	EASC 203B, Geology 203B	EASC 4053	Geology 4053
EASC 2150	Physics 2150	EASC 4054	EASC 4052, Geology 4052
EASC 2401	EASC 3400, EASC 3120, Geology 3120	EASC 4171	Physics 4171
EASC 2502	EASC 2501, EASC 3200, Geology 3200	EASC 4179	EASC 4970, Physics 4970
EASC 2702	EASC 3701, EASC 3070, Geology 3070	EASC 4211	Geology 4211
EASC 2905	EASC 2310, EASC 2300, EASC 2900, Geology 2900	EASC 4302	EASC 4501, Geology 4501
EASC 2914	EASC 2414, Geology 2414	EASC 4310	Geology 4310
EASC 2915	EASC 2415, Geology 2415	EASC 4400	EASC 4120, Geology 4120
EASC 3054	EASC 2503 and EASC 3053	EASC 4420	EASC 400A, EASC 4320, EASC 4901, Geology 400A
EASC 3055	EASC 2503 and EASC 3053	EASC 4502	EASC 4201, Geology 4201
EASC 3170	Physics 3170	EASC 4601	Geology 4601
EASC 3172	EASC 3171, Physics 3171	EASC 4800	EASC 4110, Geology 4110
EASC 3210	Geology 3210	EASC 499A/B	EASC 4991, Geology 4991
EASC 3420	EASC 2400, EASC 4901, EASC 2161, EASC 2070, Physics 2070		

- Notes:
1. Students wishing to pursue study within the programs offered by Earth Sciences are strongly advised to keep in close contact with the Department to discuss course programs before registration in order to maintain proper sequencing.
 2. Students wishing to take some Earth Sciences courses without intending to major in Earth Sciences should consult with the Head of Department (or delegate) to determine the courses most suitable to their needs and capabilities. Earth Sciences 2914, 2915, 2916, 2917, 2918, and 2150 are especially suitable for such students and have no Earth Sciences prerequisites.
 3. Most courses comprise six hours of instruction per week, usually three hours of lectures or seminars and a three-hour laboratory period; however, at an advanced level other methods of instruction may be adopted.
 4. The field courses 2905, 3705, 3905 and 4905 require payment of a participation fee to cover costs for logistics and equipment. Registration for these courses will be by application only and may be competitive.
 5. The prerequisites for courses 4302, 4902 and 4903 refer to core courses in the Faculty of Science. For the purposes of these prerequisite statements, core courses are defined as those courses that are specified by each department as mandatory to fulfil the course requirements for their General or Honours programs.
 6. Certain of the 4000 level courses may not be offered every year.
 7. At most 6 credit hours in courses at the 1000-level can be used towards the course requirements in Earth Sciences for the Major, Minor, Joint Major, Honours or Joint Honours.

7.6 Economics

The following programs are available in the Department of Economics:

1. Honours in Economics (B.A. or B.Sc.)
2. Honours in Economics (Co-operative), (B.A. or B.Sc.)
3. Joint Programs (B.Sc. Only)
4. Joint Program (Co-operative) (B.Sc. Only)
5. Major in Economics (B.A. or B.Sc.)
6. Major in Economics (Co-operative) (B.A. or B.Sc.)
7. Minor in Economics

For Departmental Regulations and Course Descriptions, see Faculty of Arts section of the Calendar.

7.7 Geography

The following undergraduate programs are available in the Department of Geography:

1. Diploma in Geographic Information Sciences
2. Focus Area in Geography
3. Honours in Geography (B.A., B.Sc)
4. Joint Programs
5. Major in Geography (B.A., B.Sc)
6. Minor in Geography (B.A., B.Sc)

For Departmental Regulations and Course Descriptions, see Faculty of Arts section of the Calendar.

7.8 Mathematics and Statistics

www.mun.ca/math/

From the point of view of degree regulations, Applied Mathematics, Pure Mathematics, and Statistics are considered to be one subject area.

The following undergraduate programs are available in the Department:

1. Applied Mathematics and Chemistry Joint Honours (B.Sc. only)
2. Applied Mathematics and Computer Science Joint Major (B.Sc. only)
3. Applied Mathematics and Economics Joint Major (B.Sc. only)
4. Applied Mathematics and Physics Joint Honours (B.Sc. only)
5. Applied Mathematics and Physics Joint Major (B.Sc. only)
6. Biology and Statistics Joint Honours (B.Sc. only)
7. Computer Science and Pure Mathematics Joint Honours (B.Sc. only)
8. Computer Science and Pure Mathematics Joint Major (B.Sc. only)
9. Computer Science and Statistics Joint Honours (B.Sc. only)
10. Computer Science and Statistics Joint Major (B.Sc. only)
11. Economics and Pure Mathematics Joint Major (B.Sc. only)
12. Economics and Statistics Joint Major (B.Sc. only)
13. Economics and Statistics (Co-operative) Joint Major (B.Sc. only)
14. Honours in Applied Mathematics (B.Sc. only)
15. Honours in Pure Mathematics
16. Honours in Statistics
17. Major in Applied Mathematics (B.Sc. only)
18. Major in Pure Mathematics
19. Major in Statistics
20. Minor in Mathematics
21. Minor in Statistics
22. Pure Mathematics and Statistics Joint Honours

Details of these programs are given after the **Regulations for the Honours Degree of Bachelor of Science**.

Mathematics and Statistics course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Mathematics and Statistics**.

7.8.1 Regulations

1. At most 9 credit hours in Mathematics will be given for courses completed from the following list subject to normal credit restrictions: Mathematics 1000, 1031, 1050, 1051, the former 1080, the former 1081, 1090, the former 1150 and 1151.
2. In the program descriptions that follow, Mathematics 1000 may be replaced by the former Mathematics 1081.
3. Students with credits in Mathematics or Statistics not listed in this Calendar must consult the department for equivalency before taking any course listed below.
4. The former Mathematics 1150 and Mathematics 1151 were courses designed specifically for students who intended to graduate with a degree in Primary or Elementary Education. No other students can receive credit for these courses. These courses are not acceptable as alternatives to any other First Year Mathematics course listed in this calendar. Students who have received credit for Education 125 or Mathematics 115/125 cannot receive additional credit for the former Mathematics 1150 or Mathematics 1151 or the current Mathematics 1050 or Mathematics 1051.
5.
 - a. For the current academic year the Mathematics Placement Test (MPT) will be used to determine placement in the following courses: Mathematics 1000, Mathematics 1050, Mathematics 1051 and Mathematics 1090, and Statistics 1510.
 - b. For subsequent years, students intending to register for the first time in any course below the 2000 level, must first submit a score for one of the following:
 - i. Advanced Placement Calculus Examination;
 - ii. Other standardized tests acceptable to the Department of Mathematics and Statistics.

7.8.2 Faculty Advisors

Normally, the Undergraduate Officer will be the advisor for each student who has undertaken a major in Applied or Pure Mathematics, and the Deputy Head (Statistics) will be the advisor for any student involved in a major in Statistics. Students should consult with their advisor at least once each semester to ensure that their choice of courses is appropriate.

*Note: The Department of Mathematics and Statistics will endeavour to give appropriate advice to students registered in its programs. However, the department points out that it is the responsibility of the student to see that his or her academic program meets the University's regulations in all respects. Students are referred to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate), Registration, Student Responsibility**. The Department accepts no responsibility for any matter arising from an inappropriate and/or improperly recorded registration.*

7.8.3 Course Numbering System

The subject area of all courses offered by the Department of Mathematics and Statistics is identified by the second digit of the course number:

Second Digit

- 0 – Common Core Mathematics courses
- 1 – Applied Mathematics courses
- 2 – Applied Mathematics and Pure Mathematics courses
- 3 – Pure Mathematics courses
- 4 – Pure Mathematics and Statistics courses
- 5 – Statistics Courses

Where a regulation makes reference to Applied Mathematics courses, this shall include all courses with second digit 1 or 2. Where a regulation makes reference to Pure Mathematics courses, this shall include all courses with second digit 2, 3 or 4. Where a regulation makes reference to Statistics courses, this shall include all courses with second digit 4 or 5.

7.8.4 Major in Applied Mathematics (B.Sc. Only)

Students shall complete the following requirements:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 3000, 3001, 3100, 3132, 3161, 3202, 3260, 4160, 4190.
2. Three credit hours in Applied Mathematics courses numbered 3000 or higher.
3. A computing course, early in your program. Computer Science 1510 is highly recommended.
4. A designated technical writing course offered by a Science department. Mathematics 2130 is recommended. The technical writing course is prerequisite to some 3000-level courses.
5. Physics 1050 (or 1020) and 1051.
6. A statistics course. Statistics 3410 is recommended.

7.8.5 Major in Pure Mathematics

Students shall complete the following requirements:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2320, 3000, 3001, 3320;
2. One of Mathematics 3202, 3210, 3260;
3. One of Mathematics 3330, 3370;
4. Twelve further credit hours in Pure Mathematics courses numbered 3000 or higher, at least 6 credit hours of which must be in courses numbered 4000 or higher;
5. A computing course. Computer Science 1510 is recommended.
6. A designated technical writing course offered by a Science department. Mathematics 2130 is recommended.
7. A statistics course. Statistics 3410 is recommended.

7.8.6 Major in Statistics

Students shall complete the following requirements:

1. Mathematics 1000, 1001, 2000, 2050, 2051, Statistics 2560, 3410, 3411, 3520, 3521, 3530;
2. One of Statistics 1510, 2500, 2510 or 2550;
3. Nine further credit hours in Statistics courses numbered 3000 or higher, at least 6 credit hours of which must be in courses numbered 4000 or higher excluding Statistics 4581;
4. Computer Science 2602.
5. Mathematics 3000 and 3001 are recommended.

7.8.7 Honours in Applied Mathematics (B.Sc. Only)

See **Regulations for the Honours Degree of Bachelor of Science**. Students shall complete the following:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 3000, 3001, 3100, 3111, 3132, 3161, 3202, 3210, 3260, 4160, 4180, 4190, 419A/B;
2. At least one of Mathematics 4162 or 4170;
3. Statistics 3410;
4. Nine further credit hours in courses numbered 3000 or higher that are offered by the Department of Mathematics and Statistics, at least 3 of which must be in courses numbered 4000 or higher;
5. A computing course early in the program is required. Computer Science 1510 is recommended.
6. Physics 1050 (or 1020), 1051, 2820, 3220.

7.8.8 Honours in Pure Mathematics

See **Regulations for the Honours Degree of Bachelor of Science**. Students shall complete the following requirements:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 2130, 2320, 3000, 3001, 3202, 3210, 3260, 3300, 3320, 3330, 4300, 4310, 4399, Statistics 2510;
2. Either Mathematics 3340 or 3370;
3. Either Mathematics 4000 or 4001;
4. Either Mathematics 4320 or 4321;
5. Twelve further credit hours in Pure Mathematics courses numbered 3000 or higher, at least 9 credit hours of which must be in courses numbered 4000 or higher;
6. A computing course early in the program is required. Computer Science 1510 is recommended.

7.8.9 Honours in Statistics

See **Regulations for the Honours Degree of Bachelor of Science**. Students shall complete the following requirements:

1. Mathematics 1000, 1001, 2000, 2050, 2051, 3000, 3001, 3202, 3210, Statistics 2560, 3410, 3411, 3520, 3521, 3530, 4410, 4590, 4599;
2. One of Statistics 1510, 2500, 2510 or 2550;
3. Eighteen further credit hours in Statistics courses including at least 12 credit hours in courses numbered 4000 or higher excluding Statistics 4581;
4. Computer Science 2602, Computer Science 3731;
5. Mathematics 4000 and Statistics 4401 are recommended.

7.8.10 Minor in Mathematics

A total of 24 credit hours in courses offered by the Department of Mathematics and Statistics is required of which only 6 credit hours shall be in courses at the 1000 level and at least 6 credit hours shall be in courses numbered 3000 or higher.

7.8.11 Minor in Statistics

The courses required for a minor in Statistics are:

1. Mathematics 1000, 1001; Statistics 1510 or 2500 or 2510, Statistics 2501 or 2560.
2. Twelve further credit hours in Statistics courses numbered 3000 or higher excluding Statistics 4581.

It is recommended that Mathematics 2000 and Mathematics 2050 be taken since they are prerequisite to several further Statistics courses.

7.9 Ocean Sciences

www.mun.ca/oscl/

The Department of Ocean Sciences is a newly formed Department within the Faculty of Science. The faculty within this Department are the former faculty of the **Ocean Sciences Centre**, a research unit and facility that was first opened in 1967.

The Department's mandate as an interdisciplinary unit is to focus on increasing our understanding of biological and chemical processes within the oceans, and with those associated with aquaculture.

The Department aims to offer both undergraduate and graduate programs in Ocean Sciences. Immediate plans are underway to offer two undergraduate Minors in Oceans and in Aquaculture. It is expected that the first course offerings will be available in 2013-2014.

7.10 Physics and Physical Oceanography

www.mun.ca/physics/main/

The following undergraduate programs are available in the Department:

1. Applied Mathematics and Physics Joint Honours
2. Applied Mathematics and Physics Joint Major
3. Biochemistry and Physics Joint Honours
4. Chemistry and Physics Joint Honours
5. Computer Science and Physics Joint Honours
6. Computer Science and Physics Joint Major
7. Earth Sciences and Physics Joint Honours
8. Earth Sciences and Physics Joint Major
9. Geophysics and Physical Oceanography Joint Honours
10. Honours in Environmental Physics
11. Honours in Physics
12. Major in Environmental Physics
13. Major in Physics
14. Minor in Physics

Details of these joint programs are given after the **Regulations for the Honours Degree of Bachelor of Science**. Other joint programs may be arranged in consultation with the departments concerned.

Physics and Physical Oceanography course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Physics and Physical Oceanography**.

Notes: 1. The attention of students intending to follow any one of the programs listed above is drawn to the **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**, governing the appropriate degree. Additional Departmental requirements are given below.

2. Faculty advisors are available to provide advice to students who are registered in, or who are considering registering in, any of the programs. Students are urged to consult with these advisors at their earliest opportunity in order to ensure that they select appropriate courses and programs. Students with credits in Physics courses which are not listed in this calendar should consult with the Department.

3. The six course stream consisting of Physics 1020, 1021, 1051, 2053, 2055, 2750, and 2820 or alternatively the seven course stream of Physics 1020, 1050, 1051, 2053, 2055, 2750, and 2820 is intended to provide a cohesive overview of Physics for potential Physics majors.

4. Physics 1050 is open to and recommended for students who have completed Level II Physics, Level III Physics and Level III Advanced Mathematics. Mathematics 1000 must be taken at the same time as, or be completed prior to, taking Physics 1050. Students who have completed Mathematics 1090 and Physics 1050 are required to complete Mathematics 1000 before registering for Physics 1051.

5. Physics 1020 is intended for students who do not qualify for Physics 1050, and while it may be taken by students who have no background in Physics it is recommended that students wishing to take Physics 1020 should have completed at least one of Level II and Level III Physics. Students who complete Physics 1020 and Mathematics 1000 are eligible for admission to Physics 1051. Students may receive credit for only one of Physics 1050 and 1020.

6. Students who have successfully completed Advanced Placement courses in both Physics and Mathematics will normally be eligible for direct entry into Physics 1051, 2053 and 2750, all of which are offered in the Fall semester. Such students are advised to consult the Department.

7. Where circumstances warrant, any prerequisites listed below may be waived by the Head of the Department.

8. Supplementary examinations will be allowed in certain Physics courses which have written final examinations. Students should refer to the **Faculty of Science Degree Regulations** for details.

7.10.1 Minor in Physics

A minor in Physics will consist of 24 credit hours in Physics courses which must include Physics 1050 (or 1020), 1051, 2053, 2055, 2750, 2820. Only 6 credit hours at the 1000 level can be used to fulfill the 24 credit hours. For those students whose major is Chemistry or Biochemistry, the 24 credit hours in Physics will not include 2053.

For Electrical Engineering students, 24 credit hours in Physics which must include Physics 1050 (or 1020), 1051, 2750, 3000, and 3550 with an additional 9 credit hours selected from Physics 2820, 3600, 3750, 3751, 3800, 4000, 4220, 4600 or other 3000 or 4000 level courses subject to approval by the Head of Physics and Physical Oceanography and the Chair of Electrical and Computer Engineering.

7.10.2 Major in Physics

1. English 1080 and English 1110 (or equivalent).
2. Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031).
3. Mathematics 1000 and 1001.
4. Mathematics 2000, Mathematics 2050 and Mathematics 3260
5. Physics 1050 (or 1020) and 1051.
6. Physics 2053, 2055, 2750, 2820, 3220, 3400, 3500, 3750 and 3900.
7. An additional 12 credit hours in physics courses numbered 3000 or higher which shall include at least 6 credit hours selected from the courses numbered Physics 3000, 3150, 3300, the former 3410, 3550, 3600, 3751.
8. Physics 3810 or Mathematics 3202.

Mathematics 1001, 2000 and 2050 are prerequisites to many Physics courses and should be completed by the end of second year. Mathematics 3260 is co-requisite to Physics 3220 and should be completed before the winter of the third year. Those who intend to make a career in Physics should note that additional Physics courses are strongly recommended. Mathematics 2051 and Computer Science 1510 or 2602 are also recommended.

7.10.3 Honours in Physics

1. English 1080 and English 1110 (or equivalent).
2. Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031).
3. Mathematics 1000 and 1001.
4. Computer Science 1510.
5. Mathematics 2000, 2050 and 3260.
6. Physics 1050 (or 1020) and 1051.
7. Physics 2053, 2055, 2750, 2820, 3220, 3230, 3400, 3500, 3600, 3750, 3820, 3900, 4400, 4500, 4820, 4850, 4900, 490A/B.
8. Physics 3810 or Mathematics 3202.
9. An additional 12 credit hours in physics courses numbered 3000 or higher which shall include at least 6 credit hours selected from physics courses numbered 4000 or higher.
10. Fifteen credit hours in applicable elective courses

Note: *Certain of the graduate courses may be taken in the final year of the Honours Program with the permission of the Head of the Department.*

Only 6 credit hours at the 1000 level in each of Physics, Chemistry and Mathematics can be used to fulfil the 120 credit hours required for the Honours program. The inclusion of Mathematics 1090, the sequence of Physics 1020, 1021, and 1051 or the substitution of Chemistry 1010, 1011 and 1031 for Chemistry 1050 and 1051 will each increase the number of credit hours required for the Honours Physics program by three.

An Honours thesis is to be presented on work undertaken by the candidate under the guidance of a Department of Physics and Physical Oceanography faculty member. The thesis comprises the 6 credit hour course Physics 490A/B. Students should seek departmental advice regarding a thesis project no later than the winter preceding the semester in which the project will be started.

The Honours Physics program in and beyond the third year requires a familiarity with computer programming and numerical analysis. In choosing electives for this program, the Department recommends that students supplement the prescribed program with the following courses Computer Science 2602 and 3731 (or Mathematics 2130 and 3132). Mathematics 2051 and 3000 are also suitable electives. For specific courses and recommendations about electives, consultation with a faculty advisor in the Department is suggested.

The Department recommends that students wishing to complete the Honours Physics program in 120 credit hours follow the schedule given below. This schedule is intended for students who qualify for Physics 1050 and 1051. Other suggested course schedules are available from the Head of the Department.

Recommended Course Schedule - Honours Physics Program

Year	Semester I	Semester II
I	Chemistry 1050 English 1080 Mathematics 1000 Physics 1050 Elective	Chemistry 1051 Computer Science 1510 English 1110 (1101, 1102) Mathematics 1001 Physics 1051
II	Mathematics 2000 Mathematics 2050 Physics 2053 Physics 2820 Elective	Mathematics 3202 Mathematics 3260 Physics 2055 Physics 2750 Elective
III	Physics 3220 Physics 3400 Physics 3500 Physics 3750 Physics 3820	Physics 3900 Physics 3600/4500 Physics 3230/4400 Physics 4820 Physics Elective
IV	Physics 4900 Physics 4850 Physics 490A Physics Elective Elective	Physics 4500/3600 Physics 4400/3230 Physics 490B Physics Elective Physics Elective

7.10.4 Major in Environmental Physics

1. English 1080 and English 1110 (or equivalent)
2. Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031)
3. Mathematics 1000 and 1001
4. Mathematics 2000, Mathematics 2050, Mathematics 3202, Mathematics 3260
5. Physics 1050 (or 1020) and 1051
6. Physics 2053, 2055, 2750, 2820, 3220, 3820, 3300, 3340, 4340
7. Physics 3400 or 3500
8. Earth Sciences 1000, 1002, 2502, 3170, 3172
9. Geography 2102, 2195, 3120
10. Biology 2120, 2600

The Major degree offers students a fair degree of latitude in choosing electives, students are encouraged to take electives from Geography and Earth Sciences: of particular merit would be any of Earth Sciences 3600, 3611 or 4105.

7.10.5 Honours in Environmental Physics

1. English 1080 and English 1110 (or equivalent)
2. Chemistry 1050 and 1051 (or Chemistry 1010, 1011, and 1031)
3. Mathematics 1000 and 1001
4. Mathematics 2000, Mathematics 2050, Mathematics 3202, Mathematics 3260
5. Physics 1050 (or 1020) and 1051
6. Physics 2053, 2055, 2750, 2820, 3220, 3300, 3340, 3820, 4205, 4300, 4340, 4820, 490A/B
7. Physics 3400 or 3500
8. Earth Sciences 1000, 1002, 2502, 3170 and 3172
9. Geography 2102, 2195, 3120
10. Biology 2120, 2600

An honours thesis is to be presented on work undertaken by the candidate under the guidance of a Department of Physics and Physical Oceanography faculty member. The thesis comprises the 6 credit hour course Physics 490A/B. Students should seek departmental advice regarding a thesis project no later than the winter preceding the semester in which the project will be started.

The Department recommends that students wishing to complete the Honours Environmental Physics program in 120 credit hours follow the schedule given below. This schedule is intended for students who qualify for Physics 1050 and 1051. Other suggested course schedules are available from the Head of the Department.

Those courses in which a grade of "B" or better or an average of 75% or higher are required, as specified under **Academic Standing, clause 1** of the **Regulations for the Honours Degree of Bachelor of Science**, are 45 credit hours in Physics courses, and 15 credit hours in other courses (beyond the 1000 level) selected from the specified program courses in Earth Sciences, Geography and Biology.

Recommended Course Schedule - Honours Environmental Physics Program

Year	Semester I	Semester II
I	Chemistry 1050 Earth Sciences 1000 English 1080 Mathematics 1000 Physics 1050	Chemistry 1051 Earth Sciences 1002 English 1110 Mathematics 1001 Physics 1051
II	Geography 2102 Mathematics 2000 Mathematics 2050 Physics 2053 Physics 2820	Geography 2195 Mathematics 3202 Mathematics 3260 Physics 2750 Elective
III	Earth Sciences 2502 Physics 3220 Physics 3820 Physics 3400/3500 Physics 3340	Biology 2120 Earth Sciences 3170 Geography 3120 Physics 2055 Physics 4820
IV	Biology 2600 Earth Sciences 3172 Physics 3300 Physics 490A Elective	Physics 4205 Physics 4300 Physics 4340 Physics 490B Elective

Credit Restrictions for Present Physics Courses with Former Courses Table

Credit May Be Obtained For Only One Course From Each of The Pairs of Courses Listed in This Table

Present Course	Former Course	Present Course	Former Course
1020	1200	1051	2050
1021	1201	1051	1061
1051	1052	3750	3700
2820	2200	3750	3850
2053	2450	490A/B	4990
2055	2550	1051	2054
2750	2700	1051	2550
3220	3200	4400	3410
3230	2210	4820	3821
		4900	3920

Physics 1021 and the former Physics 1201 will be considered equivalent for prerequisite purposes. Physics 1051 and 2820 will be considered equivalent to the former Physics 1054 and 2054 for prerequisite purposes. Physics 1051 and the former Physics 1052 and 2050 will be considered equivalent for prerequisite purposes.

Not all courses are offered every year. Students should check with the Department prior to registration to plan programs.

7.11 Psychology

www.mun.ca/psychology/index.php

The following undergraduate programs are available in the Department.

1. **Biochemistry and Psychology (Behavioural Neuroscience) Joint Honours (B.Sc. Hons. only)**
2. **Biochemistry (Nutrition) and Psychology (Behavioural Neuroscience) Joint Honours (B.Sc. Hons. only)**
3. **Biology and Psychology (Behavioural Neuroscience) Joint Honours (B.Sc. Hons. only)**
4. **Biology and Psychology Joint Honours (B.Sc. Hons. only)**
5. **Major and Honours in Behavioural Neuroscience (B.Sc. only)**
6. **Major and Honours in Behavioural Neuroscience (Co-operative) (B.Sc. Hons. only)**
7. **Major and Honours in Psychology (B.A. or B.Sc.)**
8. **Major and Honours in Psychology (Co-operative) (B.A. or B.Sc.)**
9. **Minor in Psychology (B.A. or B.Sc.)**

Details of the joint honours programs are given under the **Degree Regulations** of the Faculty of Science.

Psychology course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Psychology**.

7.11.1 Admission to Major Programs

Admission to the Major programs in the Department of Psychology is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Psychology Department by June 1 for Fall semester registration. When resources permit, applications will also be considered if received by October 1 for Winter semester. To be eligible for admission, students must have completed the 24 credit hours as listed below with an average of at least 65% in Psychology 1000/1001 and an overall average of at least 60% in Psychology, English, and Mathematics:

1. Psychology 1000, 1001
2. English 1080 and one of 1101, 1102, 1103, or 1110, or equivalent.
3. Mathematics 1000, or two of 1090, 1050, 1051 (or equivalent).
4. Six credit hours of electives (9 if only Mathematics 1000 is completed).

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

7.11.2 Admission to Honours Programs

The Honours programs in the Department of Psychology are designed for students who would like to concentrate their studies or pursue graduate work. Students who wish to be admitted to these programs must submit an "Application for Admission to Honours Program Faculties of Arts or Science" to the Department of Psychology by June 1 for Fall semester registration and by October 1 for Winter semester. To be eligible for admission, students must have completed Psychology 2910, 2911, 2520, and 2570 and obtained in these courses a grade of "B" or better, or an average of 75% or higher. Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance in the required courses. In special circumstances, students may be admitted to Honours Programs at times other than June and October.

Note: Students are advised to consult the general regulations for **Honours in the Faculty of Arts** or the **Faculty of Science**, as appropriate.

7.11.3 Requirements for a Major in Psychology

Students completing this program cannot receive credit for Psychology 2920.

1. Students may Major in Psychology as part of either a B.A. or a B.Sc. program. All Majors are required to complete a minimum of 42 credit hours of Psychology as listed below:
 - a. Psychology 1000, 1001, 2520, 2570, 2910, 2911
 - b. Twelve credit hours in Psychology chosen from the following: 3050, 3100, 3250, 3350, 3450, 3620, 3650, 3750, 3800 or 3801.
 - c. Twelve credit hours of 4000-level courses in Psychology, of which at least one must be a research experience course and one must be a selected topics course.
2. Psychology Majors following the B.Sc. program are also required to complete the following:
 - a. Mathematics 1000 (or equivalent).
 - b. Biology 1001 and 1002
 - c. Either Chemistry 1010 and 1011 (or 1050 and 1051); OR Physics 1020 (or 1050) and 1021 (or 1051)

Note: First year students should think carefully about whether Chemistry or Physics best suits their future program needs. Students should examine the prerequisites for upper-level science courses and attempt to take them in their first year.
 - d. Six credit hours of laboratory courses at the 2000 level or above in one of Biology, Chemistry, or Physics.

Note: Biology/Psychology 3750 and Biology/Psychology 4701 cannot be used to satisfy the requirement of 6 laboratory credit hours at the 2000 level or above in either Biology, Chemistry, or Physics.
3. Psychology Majors following the B.A. program are also required to complete Mathematics 1000 or two of 1090, 1050, 1051 (or equivalent), and are encouraged to complete at least 6 credit hours in Biology.

7.11.4 Requirements for Honours in Psychology

Students completing this program cannot receive credit for Psychology 2920.

1. Honours students in Psychology are required to complete the 60 credit hours of Psychology as listed below:
 - a. Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3900, 4910, 499A/B
 - b. Eighteen credit hours chosen from the alternatives listed in Clause 1. b. of the requirements for a Major in Psychology
 - c. Twelve credit hours of 4000-level courses in Psychology, of which at least one must be a research experience course and one must be a selected topics course.
2. Honours students must also complete the requirements listed in either Clause 2. or Clause 3., as applicable, of the requirements for a Major in Psychology.
3. Honours students will be required to submit in their graduating year, an undergraduate thesis (Psychology 499A/B) which demonstrates their competence in Experimental Psychology.

7.11.5 Requirements for a Major in Behavioural Neuroscience (B.Sc. Only)

Students completing this program cannot receive credit for Psychology 2920.

A program is offered in the Psychology Department to provide an education in Behavioural Neuroscience. Students planning to enroll in the program are advised to consult with the Head of the Department at the earliest opportunity because certain course choices may restrict later options. Students who intend to pursue graduate studies should take courses leading to the Honours degree.

The program for a Major in Behavioural Neuroscience shall include:

1.
 - a. Psychology 1000, 1001, 2520, 2570, 2910, 2911, 3800, 3801
 - b. Six credit hours in Psychology chosen from the following: 3050, 3100, 3250, 3350, 3450, 3620, 3650, 3750.
 - c. Six credit hours of 4000 level courses in Psychology, of which one must be a research experience course.
2.
 - a. Mathematics 1000 (or equivalent) and 1001
 - b. Chemistry 1010 and 1011 (or 1050 and 1051), and 2440 (or 2400/2401)
 - c. Physics 1020 (or 1050) and 1021 (or 1051).
 - d. Biology 1001 and 1002
 - e. English 1080 and one of 1101, 1102, 1103, or 1110, or equivalent
3. Eighteen credit hours from the following courses chosen from at least two different sciences:
 - a. Biochemistry: Any 2000-, 3000-, or 4000-level course except 2000, 2005, 2010, 2011, 3202, 3402, or 4502
 - b. Biology: 2060, 2210, 2250, 2900, 3050, 3160, 3202, 3295, 3401, 3500, 3530, 3540, 3750, 4200, 4241, 4245, 4250, 4402, the former 4450, 4601, 4605, 4701, the former 4900 (see note below)

- c. Chemistry: 2210, 2301 (or 2300) or any 3000 or 4000 level course
- d. Computer Science: Any 2000, 3000, or 4000 level course except 2650 and 2801
- e. Mathematics: 2000, 2050, 2051, 3000, 3001 or any 3000 or 4000 level pure or applied mathematics course
- f. Physics: Any 2000, 3000, or 4000 level course except 2151, 3150, 3151

Notes: 1. Credit may not be obtained for both Biology 3750 and either Psychology 3750 or Psychology 4770, or for both Biology 4701 and Psychology 4701.

- 2. The courses listed under Clause 3 may have prerequisites. It is the student's responsibility to ensure that all prerequisites have been met, or that waivers have been obtained, before registering for these courses.

7.11.6 Requirements for Honours in Behavioural Neuroscience (B.Sc. Only)

Students completing this program cannot receive credit for Psychology 2920.

1. Honours students in Behavioural Neuroscience are required to complete the following Psychology courses: 1000, 1001, 2520, 2570, 2910, 2911, 3800, 3801, 3900, 499A/B, two further courses in Psychology chosen from the following: 3050, 3100, 3250, 3350, 3450, 3620, 3650, 3750; two 4000 level courses in Psychology of which one must be a research experience course.
2. Honours students in Behavioural Neuroscience must also complete the requirements listed in Clauses 2. and 3. of the requirements for a Major in Behavioural Neuroscience.
3. In accordance with **Academic Standing, clause 1** of the **Regulations for the Honours Degree of Bachelor of Science**, Honours candidates must obtain a grade of "B" or better, OR an average of 75% or higher in all the required courses listed in Clauses 1. and 3. of the requirements for a major in Behavioural Neuroscience and Clause 1 of the requirements for honours in Behavioural Neuroscience, except those at the 1000 level.

7.11.7 Requirements for a Minor in Psychology

Students who Minor in Psychology are required to complete a minimum of 24 credit hours of Psychology as follows:

- a. Psychology 1000, 1001, 2920
- b. Fifteen other credit hours of Psychology.

7.11.8 Requirements for Major and Honours in Psychology (Co-operative) (B.A. or B.Sc.), and Major and Honours in Behavioural Neuroscience (Co-operative) (B.Sc. only)

Psychology Co-op Program (PCOP)

The Psychology Co-op Program (PCOP) is available to full-time Psychology (B.A. and B.Sc.) and Behavioural Neuroscience Majors and Honours students only.

The PCOP provides an opportunity for students to learn valuable practical skills while working in fields related to Psychology. Students complete three Work Terms, which consist of full-time paid employment. The timing of the Work Terms is such that employers stand to gain from the acquired skills of psychology majors in training. The objectives of the Work Term component of the PCOP are embodied in the **Work Term Descriptions**.

7.11.8.1 Admission Requirements

1. Admission is limited, competitive, and selective.
2. The primary criterion used in reaching decisions on applications for admission is overall academic achievement. Students with average overall academic records are unlikely to be admitted.
3. Students must first be admitted to the Psychology (B.A. or B.Sc.) or Behavioural Neuroscience Major.
4. To be eligible for admission, students must have completed a minimum of 30 credit hours with an overall average of at least 65%, and an average of at least 65% in all Psychology courses. Students must have a passing grade in all required courses, and must be registered for 15 additional credit hours in the semester in which they apply.
5. The deadline date for application is November 15.

7.11.8.2 Program of Study

1. In addition to the requirements below students must fulfill all requirements for either a Major in Psychology (B.A.), a Major in Psychology (B.Sc.), Major in Behavioural Neuroscience, Honours in Psychology (B.A), Honours in Psychology (B.Sc.), or Honours in Behavioural Neuroscience. Courses in each program are normally taken in blocks as shown in the appropriate program table. Students should consult with a faculty advisor each semester regarding course selection.
2. Students' status in the program is assessed at the end of each semester. To remain in PCOP, students must receive a passing grade in all required courses, and must maintain an average of at least 65% in all Psychology courses and a cumulative average of at least 65%. A student who fails a required course, fails to maintain an average of 65% in Psychology courses, or fails to maintain a cumulative average of 65%, will be required to withdraw from PCOP. The student in question may apply for readmission in a subsequent year after passing the specified required course(s) previously failed, or re-establishing the required average.
3. Students are required to complete three work terms at the prescribed times.

7.11.8.3 Work Term Placement

1. General management of the work terms in PCOP is the responsibility of the Division of Co-operative Education (DCE). It is responsible for assisting potential employers to become involved in the program, organizing competitions for Work Term employment, arranging student-employer interviews and facilities, data base management, and for the continual development of employment opportunities. A program co-ordinator from the DCE will work with the department to counsel students, visit students on their work assignments and evaluate the work term.
2. Work placement is not guaranteed but every effort is made to ensure that appropriate employment is made available. In the case of students who are required to withdraw from the program, the DCE has no responsibility for placement until they have been re-admitted to the program.
3. A student who applies for admission to the co-op program gives permission to the University to provide a copy of the applicant's resume, university transcript and work term evaluations to potential employers.
4. A student who has been accepted to PCOP may obtain his/her own work term placement outside the competition. Such employment positions must be confirmed by the employer, and must be approved by the Co-ordinator.

5. Students are expected to submit to the Co-ordinator, within a month from starting a Work Term, a plan of the intended work that term.
6. Salaries paid to co-operative students are determined by employers based on their internal wage structures. However, students should not expect the income from work terms to make them completely self-supporting.

7.11.8.4 Registration and Evaluation of Performance

1. In Work Terms I, II, and III, students must register for Psychology 199W, 299W, and 399W respectively.
2. Student performance evaluations are to be completed by the employer and returned to the Co-ordinator. The Work Term evaluations shall consist of two components:
 - a. On-the-job Student Performance: Job performance shall be assessed by the Co-ordinator in consultation with the Department using information gathered during the Work Term and input from the employer towards the end of the Work Term. Formal written documentation from the employer shall be sought. Evaluation of the job performance will result in one of the following classifications: PASS WITH DISTINCTION, PASS, FAIL.
 - b. The Work Report
 - i. Students are required to submit a Work Term report to the Co-ordinator on the first day of final exams.
 - ii. Work Term reports shall be evaluated by a faculty member and the Co-ordinator.
 - iii. If an employer designates a report to be of a confidential nature, both employer and the Co-ordinator must agree as to the methods to protect the confidentiality of such a report before the report may be accepted for evaluation.
 - iv. Reports must contain original work related to the Work Term placement. The topic must relate to the work experience and will be chosen by the student in consultation with the employer. The topic must be approved by the Co-ordinator or a faculty member of the Department of Psychology.

Evaluation of the work term report will result in one of the following classifications: PASS WITH DISTINCTION, PASS, FAIL.

The evaluation of the job performance and the work term report are recorded separately on the transcript. Overall evaluation of the work term will result in one of the following final grades being awarded:

- Pass with Distinction: Indicates OUTSTANDING PERFORMANCE in both the work report and the job performance.
- Pass: Indicates that PERFORMANCE MEETS EXPECTATIONS in both the work report and the job performance.
- Fail: Indicates FAILING PERFORMANCE in the work report or the job performance, or both.

To remain in PCOP, a student must obtain a final grade of PAS.

3. If a student fails to achieve the Work Term standards specified above, the student will be required to withdraw from PCOP. Such a student may reapply to the program, at which time the student will be required to repeat the Work Term with satisfactory performance. Only one Work Term may be repeated in the entire program.
4. In order to be considered for readmission, students must formally apply for readmission to the program not later than the deadline date specified in **Admission Requirements**.
5. A student who withdraws from a Work Term without acceptable cause subsequent to a job placement will be required to withdraw permanently from PCOP.
6. Students who drop a Work Term without prior approval from both the Co-ordinator and the Head of the Department of Psychology, or who fail to honour an agreement to work with an employer, or conduct themselves in such a manner as to cause their discharge from the job, will be awarded an overall grade of FAL for the Work Term in question and will be required to withdraw permanently from PCOP.
7. Permission to drop a Work Term does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved Work Term in lieu of the one dropped.

Archived Previous Calendar Available at:
Current University Calendar
<https://www.mun.ca/university-calendar>

7.11.9 Suggested Course Sequences

The tables below show suggested course sequences for the **B.A. in Psychology (Co-operative)**, the **B.Sc. in Psychology (Co-operative)**, the **B.A. Honours in Psychology (Co-operative)**, the **B.Sc. Honours in Psychology (Co-operative)**, the **B.Sc. in Behavioural Neuroscience (Co-operative)**, and the **B.Sc. Honours in Behavioural Neuroscience (Co-operative)**.

Suggested Course Sequence for B.A. in Psychology (Co-operative)

Term	Suggested Courses
Fall Semester 1	Psychology 1000 English 1080 Mathematics 1000 or one of Mathematics 1090, 1050, 1051 Elective or Arts requirement Elective or Arts requirement
Winter Semester 2	Psychology 1001 English 1101, 1102, 1103, or 1110 One other of Mathematics 1090, 1050 or 1051* Elective or Arts requirement Elective or Arts requirement
Fall Semester 3	Psychology 2910 Psychology 2520 (or 2570) Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Winter Semester 4	Psychology 2911 Psychology 2570 (or 2520) Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Spring Work Term 1	Psychology 199W
Fall Semester 5	3000-Level Core 3000-Level Core Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Winter Semester 6	3000-Level Core 3000-Level Core Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Spring Work Term 2	Psychology 299W
Fall Semester 7	Selected Topics 4000-Level Psychology Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Winter Work Term 3	Psychology 399W
Fall Semester 8	Research Experience 4000-Level Psychology Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
*or Elective or Arts requirement if Mathematics 1000 was taken in Semester 1	

Suggested Course Sequence for B.Sc. in Psychology (Co-operative)

Term	Suggested Courses
Fall Semester 1	Psychology 1000 Biology 1001 Chemistry 1010 (1050)* or Physics 1020 (1050)** Mathematics 1090*** English 1080
Winter Semester 2	Psychology 1001 Biology 1002 Chemistry 1011 (1051) or Physics 1021 (1051) Mathematics 1000*** English 1101, 1102, 1103, or 1110
Fall Semester 3	Psychology 2910 Psychology 2520 (or 2570) Biology, Chemistry, or Physics Lab Course Elective or Science requirement Elective or Science requirement
Winter Semester 4	Psychology 2911 Psychology 2570 (or 2520) Biology, Chemistry, or Physics Lab Course Elective or Science requirement Elective or Science requirement
Spring Work Term 1	Psychology 199W
Fall Semester 5	3000-Level Core 3000-Level Core Elective or Science requirement Elective or Science requirement Elective or Science requirement
Winter Semester 6	3000-Level Core 3000-Level Core Elective or Science requirement Elective or Science requirement Elective or Science requirement
Spring Work Term 2	Psychology 299W
Fall Semester 7	Selected Topics 4000-Level Psychology Elective or Science requirement Elective or Science requirement Elective or Science requirement
Winter Work Term 3	Psychology 399W
Fall Semester 8	Research Experience 4000-Level Psychology Elective or Science requirement Elective or Science requirement Elective or Science requirement
<p>*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090). **Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). ***or Mathematics 1000 (Semester 1) and an elective (Semester 2).</p>	

Archived Pro 2013 Calendar available at:
 Current University Calendar
<https://www.queensu.ca/university-calendar>

Suggested Course Sequence for B.A. (Honours) in Psychology (Co-operative)

Term	Suggested Courses
Fall Semester 1	Psychology 1000 English 1080 Mathematics 1000 or one of Mathematics 1090, 1050, 1051 Elective or Arts requirement Elective or Arts requirement
Winter Semester 2	Psychology 1001 English 1101, 1102, 1103, or 1110 One other of Mathematics 1090, 1050 or 1051* Elective or Arts requirement Elective or Arts requirement
Fall Semester 3	Psychology 2910 Psychology 2520 (or 2570) Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Winter Semester 4	Psychology 2911 Psychology 2570 (or 2520) Elective or Arts requirement Elective or Arts requirement Elective or Arts requirement
Spring Work Term 1	Psychology 199W
Fall Semester 5	3000-Level Core 3000-Level Core 3000-Level Core Psychology 3900 Elective or Arts requirement
Winter Semester 6	3000-Level Core Psychology 4910 Research Experience Elective or Arts requirement Elective or Arts requirement
Spring Work Term 2	Psychology 299W
Fall Semester 7	3000-Level Core Selected Topics 4000-Level Psychology Psychology 499A Elective or Arts requirement
Winter Work Term 3	Psychology 399W
Spring (Optional)	Psychology 499A
Fall Semester 8	3000-Level Core 4000-Level Psychology Psychology 499B Elective or Arts requirement Elective or Arts requirement
*or Elective or Arts requirement if Mathematics 1000 was taken in Semester 1	

Archived Previous Calendar available at:
<https://www.mun.ca/current-university-calendar>

Suggested Course Sequence for B.Sc. (Honours) in Psychology (Co-operative)

Term	Suggested Courses
Fall Semester 1	Psychology 1000 Biology 1001 Chemistry 1010 (1050)* or Physics 1020 (1050)** Mathematics 1090*** English 1080
Winter Semester 2	Psychology 1001 Biology 1002 Chemistry 1011 (1051) or Physics 1021 (1051) Mathematics 1000*** English 1101, 1102, 1103, or 1110
Fall Semester 3	Psychology 2910 Psychology 2520 (or 2570) Biology, Chemistry, or Physics Lab Course Elective or Science requirement Elective or Science requirement
Winter Semester 4	Psychology 2911 Psychology 2570 (or 2520) Biology, Chemistry, or Physics Lab Course Elective or Science requirement Elective or Science requirement
Spring Work Term 1	Psychology 199W
Fall Semester 5	3000-Level Core 3000-Level Core 3000-Level Core Psychology 3900 Elective or Science requirement
Winter Semester 6	3000-Level Core 3000-Level Core Research Experience Psychology 4910 Elective or Science requirement
Spring Work Term 2	Psychology 299W
Fall Semester 7	Selected Topics 4000-Level Psychology Psychology 499A 3000-Level Core Elective or Science requirement
Winter Work Term 3	Psychology 399W
Spring (Optional)	Psychology 499A
Fall Semester 8	3000-Level Core 4000-Level Psychology Psychology 499B Elective or Science requirement Elective or Science requirement
<p>*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090). **Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). ***or Mathematics 1000 (Semester 1) and an elective (Semester 2).</p>	

Archived Previous Calendar available at:
<https://www.mun.ca/university-calendar>

Suggested Course Sequence for B.Sc. in Behavioural Neuroscience (Co-operative)

Term	Suggested Courses
Fall Semester 1	Psychology 1000 Biology 1001 Chemistry 1010 (1050)* Mathematics 1090** English 1080
Winter Semester 2	Psychology 1001 Biology 1002 Chemistry 1011 (1051) Mathematics 1000** English 1101, 1102, 1103, or 1110
Fall Semester 3	Psychology 2910 Psychology 2520 (or 2570) Chemistry 2440*** Physics 1020 (1050)**** BHNR Requirement 1*****
Winter Semester 4	Psychology 2911 Psychology 2570 (or 2520) Mathematics 1001 or Science requirement Physics 1021 (1051)**** BHNR Requirement 2
Spring Work Term 1	Psychology 199W
Fall Semester 5	Psychology 3800 3000-Level Core BHNR Requirement 3 Elective or Science requirement Elective or Science requirement
Winter Semester 6	Psychology 3801 3000-Level Core BHNR Requirement 4 Elective or Science requirement Elective or Science requirement
Spring Work Term 2	Psychology 299W
Fall Semester 7	BHNR Requirement 5 Research Experience Elective or Science requirement Elective or Science requirement Elective or Science requirement
Winter Work Term 3	Psychology 399W
Fall Semester 8	4000-Level Psychology BHNR Requirement 6 Elective or Science requirement Elective or Science requirement Elective or Science requirement
<p>*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090). **or Mathematics 1000 (Semester 1) and Mathematics 1001 (Semester 2). ***or Chemistry 2400/2401 ****Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). *****BHNR Requirement 1-6 refers to the requirement specified in clause 3, Requirements for a Major in Behavioural Neuroscience (B.Sc. Only).</p>	

Suggested Course Sequence for B.Sc. (Honours) in Behavioural Neuroscience (Co-operative)

Term	Suggested Courses
Fall Semester 1	Psychology 1000 Biology 1001 Chemistry 1010 (1050)* Mathematics 1090** English 1080
Winter Semester 2	Psychology 1001 Biology 1002 Chemistry 1011 (1051) Mathematics 1000** English 1101, 1102, 1103, or 1110
Fall Semester 3	Psychology 2910 Psychology 2520 (or 2570) Chemistry 2440*** Physics 1020 (1050)**** BHNR Requirement 1*****
Winter Semester 4	Psychology 2911 Psychology 2570 (or 2520) Mathematics 1001 or Science requirement Physics 1021 (1051)**** BHNR Requirement 2
Spring Work Term 1	Psychology 199W
Fall Semester 5	Psychology 3800 3000-Level Core BHNR Requirement 3 Psychology 3900 Elective or Science requirement
Winter Semester 6	Psychology 3801 3000-Level Core BHNR Requirement 4 Elective or Science requirement Elective or Science requirement
Spring Work Term 2	Psychology 299W
Fall Semester 7	BHNR Requirement 5 Research Experience Psychology 499A Elective or Science requirement Elective or Science requirement
Winter Work Term 3	Psychology 399W
Spring (Optional)	Psychology 499A
Fall Semester 8	4000-Level Psychology BHNR Requirement 6 Psychology 499B Elective or Science requirement Elective or Science requirement

*Students registered in Chemistry 1050 must also be registered in Mathematics 1000 (not 1090).
 **or Mathematics 1000 (Semester 1) and Mathematics 1001 (Semester 2).
 ***or Chemistry 2400/2401.
 ****Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).
 *****BHNR Requirement 1-6 refers to the requirement specified in clause 3, **Requirements for a Major in Behavioural Neuroscience (B.Sc. Only)**.

7.12 Science

Science course descriptions are found at the end of the Faculty of Science section under **Course Descriptions, Science**.

8 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Head of the Department.

8.1 Biochemistry

Biochemistry courses are designated by BIOC.

1430 Biochemistry for Nurses is an introduction to the chemistry and

structure-function relationships of carbohydrates, lipids and proteins. It will examine the basic metabolism of carbohydrates and fats, with emphasis on the biochemical fluctuations that occur in human health and disease, and will include a brief introduction to molecular genetics. Prospective fast-track program students should consult with the School of Nursing concerning

admission to this course.

CR: the former BIOC 2430

LC: 4

PR: Level 3 Chemistry or Chemistry 1010 or Chemistry 1810 or equivalent, and acceptance to Bachelor of Nursing (Collaborative)

UL: may not be used for credit to fulfil the requirements for a major in the Department of Biochemistry

2000 Principles of Food Science - inactive course.

2005 Food, Food Safety, and Health introduces the concepts of the composition of foods, and how the processing of food affects sensory appeal, shelf life and nutrient composition. Common food and water-borne illnesses (risks and prevention) are covered in the course content. Students will also be introduced to food biotechnologies, including genetically modified organisms, nutraceuticals and the development of functional foods.
CO: Chemistry 2400 or 2440

2010 Introductory Foods I - inactive course.

2011 Introductory Foods II - inactive course.

2100 Introduction to Molecular Biology and Genetics will cover the heritability of simple traits from phenotype to genotype; the discovery of DNA as the molecule of heredity; the structure and function of DNA; the elucidation of the genetic code; and the manipulation of DNA for recombinant DNA technology and biotechnology.

CO: BIOC 2101, Chemistry 2401, Physics 1021 or 1051. Students may replace the co-requisite Chemistry 2401 with Chemistry 2440 as a prerequisite. Chemistry 2440 may not be taken as a co-requisite of 2100

CR: Biology 2250

LH: 3 on alternate weeks

PR: BIOC 2101, Chemistry 2401, Physics 1021 or 1051. Students may replace the co-requisite Chemistry 2401 with Chemistry 2440 as a prerequisite. Chemistry 2440 may not be taken as a co-requisite of 2100

2101 Introduction to Biochemistry is an introduction to the major organic substances of living organisms, proteins, carbohydrates and lipids; their structure, analysis and biochemical function. Other topics will include: enzymes; the biochemistry of membranes, including the plasma membrane and specialized intracellular membranes; and the biochemistry of selected differentiated cells.

CR: Pharmacy 2004, or the former Pharmacy 3110

LH: one three-hour laboratory period on alternate weeks

PR: Chemistry 2400 and 2401, or Chemistry 2440; and Physics 1020 or 1050, and 1021 (or 1051). Chemistry 2401 and Physics 1021 or 1051 can be done concurrently

2600 Introduction to Human Nutrition (same as HKR 2600) gives an overview of human nutrition with an emphasis on topics of current interest. Students will gain an understanding of nutrition in the context of health maintenance across the life span. Topics covered will include nutrition during pregnancy, nutrition for infants, Canadian Recommended Nutrient Intakes / Dietary Reference Intakes, weight loss and weight gain, nutraceuticals and ergogenic aids.

CR: HKR 2600 or the former Kinesiology 2600

3052 Food Microbiology (same as Biology 3052) is the study of the microbiology of water and food with regard to the beneficial and detrimental roles of microorganisms on interaction with these systems. Emphasis will be on the microbiology of food, fermentations, food spoilage and food borne vectors of human disease.

CR: BIOC 3054, Biology 3052, and the former BIOC 3401

LC: three hours per week

LH: three hours per week

PR: Biology 3050

3054 Fundamentals of Food Microbiology - inactive course.

3105 Physical Biochemistry examines topics such as: types of intermolecular forces in biomolecules; the folding of biomolecules and the role of water; pH, buffers, and ionisation of biomolecules; thermodynamics: equilibria, coupled reactions, transport across membranes and redox reactions; and ligand binding. Other topics will include: size and shape of biomolecules; isotopes in biochemistry; and, spectroscopy of biomolecules.

OR: a two hour problem-solving class

PR: BIOC 2101; and Chemistry 2300 or 2301 or Physics 2053

3106 Metabolism examines the catabolism of carbohydrates, lipids and amino acids. Other topics will be: mitochondria, chloroplasts and ATP synthesis; biosynthesis of carbohydrates and lipids; metabolic specialization of differentiated cells and tissues; and, integration of metabolism.

CR: the former BIOC 3102 or Pharmacy 3111

LH: one three-hour laboratory or one-hour tutorial per week

OR: one-hour tutorial or one three-hour laboratory per week

PR: BIOC 2101

3107 Nucleic Acid Biochemistry and Molecular Biology examines the

structure, function and biochemistry of DNA and RNA and the biochemical processes in the flow of information from the gene to protein. These will include: DNA replication, recombination and repair processes; transcription of RNA and RNA splicing; and protein synthesis. The regulation of gene expression will also be covered at an introductory level. The course will also include an introduction to cloning methodology.

LH: up to four hours per week which will normally consist of one three hour laboratory period plus one additional hour on the following day.

PR: BIOC 2101; and BIOC 2100 or Biology 2250

3108 Molecular Biochemistry of the Cell focuses on the molecular biochemistry of intracellular regulation, including advances in topics such as signal transduction, apoptosis and cancer. Other topics will include protein processing and sorting, cyclins, G-protein structure, function and regulation, cell adhesion molecules and the structure of the extracellular matrix.

PR: BIOC 2100 or Biology 2250; and BIOC 2101

311A/B Human Physiology - inactive course.

3202 Community Nutrition - inactive course.

3203 Fundamentals of Human Nutrition is the cornerstone course for the study of nutrition. The sources, uptake and physiologic roles of essential nutrients will be discussed in the context of growth, maintenance, reproduction and overall health in humans.

CO: BIOC 3106

CR: the former BIOC 3201

PR: BIOC 2101, 2600

3402 Food Chemistry examines the following topics: water structure and the role of water in chemical reactions and mechanical properties of foods; chemistry and physical properties of carbohydrates, proteins and lipids; food dispersions; pigments and natural colorants; food flavour; enzyme properties and applications; vitamins and minerals; chemistry of enzymic and non-enzymic browning; characteristics of: muscle tissue, milk, eggs, bread and edible plant tissue; food additives; and, chemical changes in foods during processing.

LH: one period per week

PR: BIOC 2000 or 2005; BIOC 2101; Chemistry 2440 or Chemistry 2401

3600 Sports and Exercise Nutrition deals with the specific roles of nutrients in sport and exercise, and the application of nutrition to sport and exercise.

CR: the former BIOC 4241

PR: BIOC 2600 or HKR 2600 or the former BIOC 3200/3201; and one of BIOC 311B, MED 310B, HKR 2320

4002 Biochemical Regulation examines metabolic regulation at the cellular and multicellular level. Topics will include: control theory; hormones: their biosynthesis and mechanism of action; signal transduction; and, endocrine coordination of metabolic processes. Principles will be illustrated by the use of case studies from the medical and veterinary literature.

LC: two to three hours per week, together with assigned reading and case studies

PR: BIOC 2100 or Biology 2250; BIOC 3106

4101 Proteins will review the history of protein research and the general properties of proteins and include other topics such as: strategy and methods for purification; chemical structure, properties, modification and determination of the protein amino acids; sequencing strategy, chain cleavage methods and end group analysis; folding of the protein main chain and techniques to determine structure; and, the relationship between structure and function: protein filaments, motors and regulators. It will also cover disease-related proteins and other examples from the current literature.

LC: two to three hours per week, together with assigned reading

PR: BIOC 3105

4102 Current Topics in Biochemistry is a seminar course in which faculty and students will discuss topics of current interest in the biochemical literature. Students will be responsible for reading and critically assessing recent literature.

PR: Honours Biochemistry students in their final year or permission of the Head

4103 Prokaryotic Gene Regulation is a detailed and up-to-date treatment of the mechanisms of genetic regulation found in bacterial cells. The course will develop topics based on the evidence of bacterial genetics and modern molecular biological experiments. Topics may include: theory of mutations, RNA transcription, positive and negative regulation of transcription; regulation of protein synthesis; control of DNA replication; bacterial operons and regulons; developmental molecular biology in bacterial systems; and evolution and molecular biology of organelles.

PR: BIOC 3107

4104 Eukaryotic Gene Regulation and Developmental Biology details the cellular and molecular aspects of eukaryotic gene regulation and development. Topics to be covered will include the DNA content and organization of eukaryotes, mechanisms controlling the expression of eukaryotic genetic information at the transcriptional and post-transcriptional

levels, and the methodologies used to define these mechanisms. Detailed consideration will be given to the cell-surface events which regulate nuclear gene expression and cell lineage specification. Developmental mechanisms operating in a number of model systems will be discussed.

PR: BIOC 3107 or 3108

4105 Immunology (same as Pharmacy 4105) is taught and administered by the School of Pharmacy. The course is an introduction to the molecular and cellular basis of immunity and hypersensitivity, and will include a discussion of the manipulation of the immune system in the management and treatment of disease.

CO: BIOC 2101, and either BIOC 311B or Medicine 310B

CR: Pharmacy 4105 and the former Pharmacy 3105

OR: tutorials

PR: BIOC 2101, and either BIOC 311B or Medicine 310B

4200 Bioenergetics and Biological Oxidation examines topics such as: respiration and electron transport; the functional organization of energy transducing membranes; the structure and function of flavoenzymes, cytochromes, iron-sulfur proteins and quinones; enzyme reduction of oxygen; and, free radicals in biological systems.

LC: two to three hours per week and assigned reading

PR: BIOC 3106

4201 Membranes - Structure and Function examines the structure of model and biological membranes, the molecular interactions between membrane components and the effects of these interactions on the biophysical and functional properties of membranes. Other topics will include the structure-function of specialized membranous systems, such as lipoprotein, lung surfactant, and lipid rafts; membrane lipid composition in biochemical adaptation and function; and the role of membrane proteins in intracellular trafficking, receptor function, enzymatic activity and membrane-related diseases.

PR: BIOC 3105

4210 Biochemical Research Techniques I examines the proteome and the genome. This course is designed to familiarize students with current methodology employed in the analyses of the complements of proteins and genes resident in eukaryotic cells. Emphasis will be placed on techniques that facilitate the simultaneous functional analyses of large numbers of proteins or genes. A variety of techniques, used in the study of expression and functional proteomics, will be described, including 2D PAGE, tagged proteins, fluorophores, mass spectrometry and protein microarrays. Techniques used in the study of gene expression and functional genomics will also be described, including the use of reporter gene constructs, analysis of protein-DNA interactions, expressions of cloned genes and several experimental approaches used to define the eukaryotic transcriptome.

AR: attendance is required

PR: BIOC 3105

4211 Biochemical Research Techniques II is designed to familiarize students with methods used for the study of cellular and subcellular metabolism. This course may include a research project.

AR: attendance is required

LC: times as arranged

LH: times as arranged

PR: BIOC 3106

4220 Introduction to General and Autonomic Pharmacology (same as Medicine 4300) deals with the general principles of pharmacology (dose-response relationship, drug-receptor interaction, absorption, distribution, metabolism, excretion of drugs), and drugs that affect neuromuscular and autonomic neurotransmission, the cardiovascular, gastrointestinal, and central nervous systems, and autacoids/prostanoids.

CO: BIOC 3106 or Pharmacy 3111

CR: Medicine 4300

LH: 3

PR: BIOC 311A/B or Medicine 310A/B or Pharmacy 2002/2003 (or the former Pharmacy 3201/3202)

4230-4239 Special Topics in Biochemistry will be given for senior undergraduates, and will cover a range of topics in specialized fields in Biochemistry. They may be taught by visiting specialists when available.

PR: to be determined at the time of offering

4240 Nutrigenetics and Nutrigenomics is designed to familiarize students with emerging discoveries in the area of diet-gene interaction and to further their understanding of the relationships between the genome and diet as well as the potential to design personalized diets for better health. Students will develop an appreciation for the role of nutrients in the prevention and/or development of disease.

PR: BIOC 2100 or Biology 2250; BIOC 3106; and one of BIOC 3203 or the former BIOC 3200

4242-4249 Special Topics in Nutrition will be given for senior undergraduates, and will cover a range of topics in specialized fields in Nutrition. They may be taught by visiting specialists when available.

PR: to be determined at the time of offering

4300 Advanced Nutrition is a course in which current controversies and trends in human nutrition are presented and discussed using the scientific literature.

PR: BIOC 3203 or the former BIOC 3200/3201, and either BIOC 311B or Medicine 310B

4301 Nutrition and Disease is a course which addresses the scientific basis for nutritional intervention in chronic human disease.

PR: BIOC 3203 or the former BIOC 3200/3201, and either BIOC 311B or Medicine 310B

4400 Food Analysis - inactive course.

4502 Techniques in Nutrition Research is a seminar course in which faculty and students will discuss concepts and methods used in the study of nutrition. Students will be responsible for reading and critically assessing recent literature.

PR: BIOC 4301

PR: Honours Nutrition students in their final year or permission of the Head

499A and 499B Dissertation is a two-semester linked course based on independent study of a problem in Biochemistry. The subject of study will be decided in consultation with Faculty advisors and must be approved in advance by the Department. This dissertation is obligatory for Honours students in Biochemistry. The dissertation will be submitted as a formal written report accompanied by appropriate illustration before the end of the tenth week of the second semester. Before the end of his/her final semester the student will give an oral presentation of his/her research.

CH: 6

PR: Honours students in their final year or permission of the Head

8.2 Biology

According to the nature of particular courses, the specified number of laboratory hours may consist of some combination of laboratory work, seminars or directed independent study relevant to the practical aspects of the subject matter.

Biology courses are designated by BIOL.

1001 Principles of Biology is an introduction to the science of Biology, including a discussion of the unity, diversity and evolution of living organisms.

LH: 3

UL: credit may be obtained for only 6 1000-level credit hours in Biology

1002 Principles of Biology is an introduction to the science of Biology, including a discussion of the unity, diversity and evolution of living organisms.

LH: 3

PR: BIOL 1001

UL: credit may be obtained for only 6 1000-level credit hours in Biology

2010 Biology of Plants is a study of the structure, function and reproductive biology of plants, with emphasis on the vascular plants, and on their relationship to environment and human activities.

LH: 3

PR: BIOL 1001 and 1002; Chemistry 1010 or 1050 (or the former Chemistry 1000)

2040 Modern Biology and Human Society I examines various aspects of the human body, and the implications of modern biological research for human beings. Topics include cancer; diet and nutrition and associated diseases; circulatory disease, immunity, human genetics, biorhythms, new diseases, genetic engineering and reproductive engineering.

OR: seminars

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Biology

2041 Modern Biology and Human Society II examines the origins and consequences of the environmental crisis of the 20th century. Topics include the population explosion, energy, material cycles, air and water and land pollution, global food supplies, the fisheries, wildlands, renewable and non-renewable resources, environmental ethics.

OR: seminars

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Biology

2060 Principles of Cell Biology is a modern view of the biology of eukaryotic cells, organelles and molecules and their interactions in the functioning of living organisms.

CO: Physics 1021 or 1051; Biochemistry 2101

CR: the former BIOL 3060

LH: 3

PR: Physics 1021 or 1051; Biochemistry 2101

PR: BIOL 1001, 1002 and 2250; Chemistry 2440 or 2400

2120 Biology for Students of Earth Sciences is an introduction of the principles of Biology for students in Earth Sciences. Topics will include principles of classification, levels of biological organization, fundamental

characteristics of living organisms and basic concepts in ecology.

CR: BIOL 1001 or 1002

LH: 3

PR: Earth Science major; Earth Sciences 1001 or 1002 or permission of the Head of Department.

UL: may not be used for credit by Biology Majors or Minors

2122 Biology of Invertebrates is a study of the invertebrates with emphasis on structure and function, adaptations and life histories. The laboratories will present a broad survey of the major invertebrate groups.

CR: the former BIOL 3122

LH: 3

PR: BIOL 1001 and 1002

2210 Biology of Vertebrates is a study of the vertebrates, with emphasis on structure and function, adaptations and life histories.

CR: the former BIOL 3210

LH: 3

PR: BIOL 1001 and 1002

2250 Principles of Genetics is an introduction to Mendelian and molecular genetics. Phenotype and genotype, behaviour of alleles in genetic crosses, chromosome theory of inheritance, genetic linkage, molecular biology of DNA, RNA and protein, molecular basis of mutation, recombinant DNA, applications of genetic biotechnology.

CO: Chemistry 2440 or 2400

CR: the former BIOL 3250

LH: 3

PR: BIOL 1001 and 1002; Chemistry 1010 and 1011 (or 1050/1051)

PR: Chemistry 2440 or 2400

2600 Principles of Ecology is a conceptual course introducing the principles of ecology, including theoretical, functional and empirical approaches.

CR: the former BIOL 3600

LH: 3

PR: BIOL 1001 and 1002

2900 Principles of Evolution and Systematics is an introduction to the processes and patterns of evolution, and the principles of classification. Natural selection and other microevolutionary processes, variation and adaptation, species and speciation, phylogenetic systematics, reconstruction of phylogeny, macro-evolutionary patterns in the fossil record and their interpretation.

CO: Statistics 2550 (or equivalent)

CR: the former BIOL 3900

LH: 3

PR: BIOL 1001, 1002 and 2250

PR: Statistics 2550 (or equivalent)

3041 Boreal Flora - inactive course.

3050 Introduction to Microbiology is a course in which the basic principles underlying microbial life are studied. Aspects include structure, function, bioenergetics and growth with an emphasis on prokaryotes. Also studied are viruses, microbial diseases, introductory principles of immunology and the control of microorganisms. The laboratory sessions provide training in culture and determinative techniques using microorganisms.

LH: 3

PR: BIOL 1001 and 1002; Biochemistry 2101

3052 Food Microbiology (same as Biochemistry 3052) is the study of the microbiology of water and food with regard to the beneficial and detrimental roles of microorganisms on interaction with these systems. Emphasis will be on the microbiology of food, fermentations, food spoilage and food borne vectors of human disease.

CR: Biochemistry 3054, Biochemistry 3052, and the former Biochemistry 3401

LC: three hours per week

LH: three hours per week

PR: BIOL 3050

3053 Microbiology for Nurses examines the fundamentals of microbiology with an emphasis on medical microbiology. The course will include topics such as: host responses to infections, human diseases caused by microorganisms, and the control and exploitation of microorganisms.

LH: 2

PR: students admitted to the Bachelor of Nursing (Collaborative) program

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Biology, nor is it acceptable for any of the joint programs between Biology and other disciplines

3160 Insect Morphology and Physiology - inactive course.

3202 Comparative Vertebrate Anatomy examines the phylogenetic development and comparative anatomy of the vertebrates.

CR: the former BIOL 3200 or the former BIOL 3201

LH: 3

PR: BIOL 1001 and 1002

3295 Population and Evolutionary Ecology is an introduction to the theory and principles of evolutionary ecology and population dynamics.

CR: the former BIOL 4290

LH: 3

PR: BIOL 2600; at least one of BIOL 2010, 2122 or 2210

3300 Introductory Entomology is a study of the classification and ecology of insects within an evolutionary framework. Topics will include molecular biological and classical morphological issues surrounding insect taxonomy, evolutionary based higher systematics, and the ecological roles of insects in a variety of ecosystems.

CR: BIOL 4150 and the former BIOL 4140

LH: 3

PR: BIOL 2600. It is recommended that students have completed BIOL 2900.

3401 Comparative Animal Physiology is a comparative study of the basic physiological processes, with special attention paid to those strategies invoked by animals which enable them to adapt to environmental changes.

CO: Biochemistry 3106

CR: the former BIOL 4401

LH: 3

PR: BIOL 2060 and 2210

PR: Biochemistry 3106

3402 Principles of Plant Physiology is a consideration of the principles of plant physiology, including water relations, nutrition, metabolism, growth and development.

CO: Biochemistry 3106

CR: the former BIOL 4403

LH: 3

PR: BIOL 2010 and 2060

PR: Biochemistry 3106

3500 Histology is a study of microstructure and ultrastructure of tissues and organ systems in vertebrates, particularly mammals, with emphasis on correlating structure and function.

LH: 3

PR: BIOL 2060 and 2210

3530 Molecular and Developmental Biology is a study of developmental model systems with a focus on the underlying principles and molecular mechanisms involved in embryogenesis, organogenesis, morphogenesis, cellular differentiation, growth and regeneration in animals (vertebrates and invertebrates) and plants. Current cellular and molecular biology techniques and the implications of developmental biology in modern biological and health research will be emphasized.

LH: 3

PR: BIOL 2060 and BIOL 2250 or Biochemistry 2100

3540 Histotechnique - inactive course.

3610 Boreal Ecology is a study of the principal features of terrestrial ecosystems, with emphasis on the boreal region. This course may be offered in a usual 13 week semester or as a two-week field course.

CR: Environmental Science 3131

LC: either three hours of lecture and three hours of laboratory per week or a two week field course that embodies equivalent instructional time

LH: either three hours of lecture and three hours of laboratory per week or a two week field course that embodies equivalent instructional time

PR: BIOL 2010, 2250, 2600 and 2900; Statistics 2550 or equivalent

3620 Aquatic Microbial Ecology is a study of the nature, distribution and activities of microorganisms in the freshwater and marine environments. Field and laboratory work illustrate some of the investigative techniques used in this area of study.

CR: the former BIOL 3603

LH: 3

PR: BIOL 2600 and 3050; Statistics 2550 or equivalent

3640 Environmental Physiology of Animals covers physiological adaptations of animals facilitating their survival in natural environments with emphasis on physiological and biochemical responses of animals to extreme environments. Starting with the fundamental basis of physiological mechanisms, the course explores various aspects and the integration of major physiological processes (metabolism, respiration, osmoregulation) and how these relate to ecological niche.

CR: the former BIOL 3403 or the former BIOL 4455

PR: BIOL 2060 and 2210; Biochemistry 3106

UL: may not be used to fulfill the physiology course requirement for a Biology major, honours or joint honours program.

3709 Field Course in Marine Principles and Techniques begins with a two-week field school immediately prior to the beginning of the Fall Semester. In the Fall Semester there are follow-up lectures, readings and submission of reports. The course is designed to introduce the principal marine environments, organisms and techniques. It is strongly recommended that this course be taken before either BIOL 3710, 3711 or 4810.

PR: BIOL 2600; Statistics 2550 or equivalent and permission of the Head

of Department

3710 Biological Oceanography is an introductory course in biotic and abiotic factors controlling marine biomass and primary production, emphasizing plankton and fishes. It introduces students to major groups of marine phytoplankton, zooplankton, and fishes, emphasizing how the physical, chemical, and geological environments interact with biology to define processes and pattern in marine organisms.

LC: either three hours of lecture and three hours of laboratory per week or a two-week field course that embodies equivalent instructional time

LH: either three hours of lecture and three hours of laboratory per week or a two-week field course that embodies equivalent instructional time

PR: BIOL 2122 and 2600

3711 Principles of Marine Biology is an introductory course in biology of the oceans. Introduces students to marine habitats and the organisms that inhabit them, emphasizing functional morphology, physiology, biodiversity, phylogeny, and ecology. Also includes introduction to marine biogeography, conservation, fisheries and pollution.

LC: either three hours of lecture and three hours of laboratory per week or a two-week field course that embodies equivalent instructional time

LH: either three hours of lecture and three hours of laboratory per week or a two-week field course that embodies equivalent instructional time

PR: BIOL 2122, BIOL 2600

3712 Benthic Biology examines the biology of the aquatic benthos (bottom-dwelling organisms); their origins, adaptations, life histories and ecological roles. This course may be offered in a usual 13 week semester or as a two-week field course.

CR: the former Biology 3630

LC: either three hours of lecture and three hours of laboratory per week or a two-week field course that embodies equivalent instructional time

LH: either three hours of lecture and three hours of laboratory per week or a two-week field course that embodies equivalent instructional time

PR: Biology 2122, 2600 and 3710

3714 Estuarine Fish Ecology Field Course examines community structure, function and distribution of northern coastal fishes in fjords and estuarine environments. Emphasis on sampling, field techniques, taxonomy, quantitative characterization, adaptations and habitat relationships. A comparative approach will contrast fish communities from other areas. To be held as a two week field course.

PR: BIOL 2600

3715 Ecology and Evolution of Fishes (same as the former BIOL 4600) examines the evolutionary history and ecology of the world's fishes, with particular emphasis on those of ecological, economical and cultural importance to Eastern Canada. Topics will include taxonomy, life histories, behaviour, zoogeography, evolutionary ecology, population biology, contemporary evolution, and conservation biology.

CR: the former BIOL 4600

LH: 3

PR: BIOL 2210, 2600 and 2900

3750 Animal Behaviour I (same as Psychology 3750) is an introduction to the mechanisms, development, function and evolution of behaviour in animals. Topics include the history of ethology and comparative psychology, and behavioural ecology; methods of animal behaviour study, behaviour of animals in relation to physiology, learning, communication, mating systems, and other areas in Biology and Psychology.

CR: Psychology 3750

PR: BIOL 1001 and 1002; Statistics 2550 or equivalent

3811 Paleontology (W) (same as Earth Sciences 3811) is taught and administered by the Department of Earth Sciences.

CR: Earth Sciences 3811, the former BIOL 3800, and the former Earth Sciences 3801

PR: either Earth Sciences 1002 and BIOL 2120 (or BIOL 1001 and 1002); or BIOL 2122 and 2210

3950 Research Methods in Genetic Biotechnology (same as the former BIOL 4900) will include DNA extraction, DNA amplification by the Polymerase Chain Reaction (PCR), DNA cloning, DNA sequence analysis and Bioinformatics. Additional modules in gene expression and re-sequencing chip technologies may be included. Theory and methods will be introduced in a research framework.

CR: the former BIOL 4900

LH: Three hours of lecture and three hours of laboratory per week or a three week on-campus course that embodies equivalent instructor time

PR: BIOL 2060 and 2250

3951 Introduction to Bioinformatics (same as Computer Science 3550) deals with the development and application of computational methods to address biological problems. The course will focus on the fundamental concepts, ideas and related biological applications of existing bioinformatics tools. This course will provide hands-on experience in applying bioinformatics software tools and online databases to analyze experimental biological data, and it will also introduce scripting language tools typically used to automate some biological data analysis tasks.

CR: Computer Science 3550

LH: 3

PR: BIOL 2060 or Biochemistry 2101, and one Computer Science course at the 1000-level or above excluding Computer Science 1600 and Computer Science 2000; or Computer Science 2500 or Computer Science 2710, and one Biology course at the 1000-level or above excluding BIOL 2040 and BIOL 2041; or permission of the course instructor

4000 Bacterial Systematics - inactive course.

4010 Virology will examine topics about viruses infecting all forms of life including humans and other animals, plants and bacteria. The scope within the course ranges from the molecular biology of virus replication to virus evolution and ecology. Current issues concerning viruses and society are incorporated into the course including the practical applications of viruses, vaccines, and emerging viruses.

LH: Three hours of laboratory/seminar/discussion per week

PR: BIOL 2900 and 3050

4012 Phycology - inactive course.

4014 Biology and Ecology of Boreal and Arctic Seaweeds is a field course examination of seaweed biology and ecology with special study of living specimens in estuarine, fjordic and exposed coastal sites, demonstrating their physiological and ecological adaptations to cold-water habitats. This course is offered at the Bonne Bay Marine Station during the Summer Semester with two weeks of instruction followed by a week to complete course requirements.

PR: BIOL 2600 or equivalent

4040 Mycology is a study of the physiology, morphogenesis, nature of plant and animal parasitism, ecology and taxonomy of terrestrial and freshwater fungi.

CR: the former BIOL 3020

LH: 3

PR: BIOL 2060 and 3050

4050 Advanced Topics in Microbiology examines the beneficial and harmful properties of microbes including topics on industrial microbiology and the discovery of new antimicrobial agents. The scope within the course ranges from the genetic manipulation of microbes for useful purposes to the isolation of bacteria for applications in various fields. Current issues concerning microbiology and society will also be discussed including the practical applications of microbes and bacterial diseases affecting society.

LH: 3

PR: BIOL 3050

4122 Advanced Topics in Marine Invertebrates provides an in-depth examination of physiological, ecological and behavioural adaptations in marine invertebrates. Lectures will be combined with discussions of relevant papers from the primary literature on topics of current interest, which may relate to functional morphology, ecology, evolution and natural history. Students will also gain practical research experience through the study of live and preserved animals.

LH: 3

PR: BIOL 2122, 2600 and 2900

4141 Nematology is a study of plant parasitic, insect parasitic and free-living marine, freshwater and terrestrial nematodes, with emphasis on taxonomy, biology, economic importance, control methodologies and environmental applications.

LH: 3

PR: BIOL 2010, 2122 and 2600

4150 Insect Systematics and Ecology - inactive course.

4180 General Parasitology is an examination of parasitism as a way of life, with emphasis on classification, structural adaptation, life cycles and ecology.

LH: 3

PR: BIOL 2122, 2210 and 2600

4182 Fisheries and Wildlife Parasitology is a study of the important parasites of fish and other wildlife and their impact on both individuals and populations.

LH: 3

PR: BIOL 4180

4200 Immunology is a study of vertebrate and invertebrate immune systems including antigens and antibodies and their reactions.

LH: 3

PR: BIOL 2060 and BIOL 3050

4241 Advanced Genetics has advanced topics in modern genetic analysis, including regulation of gene expression, developmental genetics, molecular basis of inherited disease, genomics, immuno-genetics, behavioural genetics, and molecular evolution.

LH: 3

PR: BIOL 2250 and Biochemistry 2101

4245 Biophysics is an examination of the physical properties involved in

defining diffusion, membrane properties, electrochemical potentials and the processes of bioenergetics within cells and organelles. Selected topics in biomechanics and the functioning of whole organisms with respect to size, shape, support, orientation, transport and motility.

LH: 3

PR: BIOL 2060 and Biochemistry 2101

4250 Evolutionary Genetics has advanced topics in the study of micro and macro-evolutionary phenomena. Genetic variation in natural populations; theory of genetic drift, mutation, migration, inbreeding, and natural selection; neutral theory of molecular evolution, patterns of nucleotide substitution, heritability and quantitative genetics.

LH: 3

PR: BIOL 2250 and 2900

4251 Genomics will have lecture, seminar, and laboratory components. Topics covered will include Technical Foundations of Genomics, Global Gene Expression Profiling, Bioinformatics, Comparative Genomics, Microbial Genomics, Genomics and Medicine, Genomics and Agriculture, Environmental Genomics, and Ethical Issues of Genomics. Each topic will involve a lecture component, in which theory and methods will be taught using the textbook and journal articles. Some lecture and lab times will be devoted to seminars on methods and papers related to lecture or laboratory components of the course. In the lab component, students will have the opportunity to use state-of-the-art genomic techniques to address a research question.

LH: 3

OR: seminar

PR: BIOL 2060, 2250

4255 Proteomics is the study of the proteome, the complete set of proteins produced by a species, using the technologies of large-scale protein separation and identification. Proteomics describes how proteins are modified, when and where they are expressed, how they are involved in metabolic pathways and how they interact with one another. Topics covered will include Technical Foundations of Proteomics, Global Functional Protein Expression Profiling, Experimental Bioinformatics, Comparative Proteomics, Posttranslational Modification-Specific Proteomics, Proteomics in Medicine, Agriculture, Environmental Proteomics and Proteomics for Quality and Safety of Food.

LH: 3

PR: BIOL 2060, 2250; Biochemistry 3106

4270 History of Biology is a consideration of the development of biological concepts as interactions between observations, philosophical systems and cultural environment. This course will normally require students to make verbal presentations to the class, participate in discussions and submit written papers.

OR: 3 hour seminar per week

PR: a minimum of 90 credit hours including a minimum of 9 credit hours from any of BIOL 2010, 2122, 2210, 2600 and including a minimum of 6 credit hours in Biology at the 3000 level or above, plus the permission of the Instructor

4306 Applied Biology is an examination of how biological and other sciences are applied to the problems of management and utilization of organisms at both the individual and systems level to meet human needs.

CR: the former BIOL 4303 or the former BIOL 4304

PR: BIOL 2060, 2250, 2600, 2900 and one of BIOL 2010, 2122 or 2210

4307 Global Change Biology examines the evolution of biosphere, global role of photosynthesis in oxygen and carbon dioxide balance, glacial-interglacial oscillations, carbon sources and sinks in modern biosphere, greenhouse gases emissions, population dynamics, origin and global impact of agriculture, global changes in Holocene and Anthropocene.

LH: 3

PR: BIOL 2600, BIOL 2900 or permission of the instructor

4360 Community and Ecosystem Ecology is a study of the basic principles, patterns and processes of ecological communities and ecosystems.

OR: a seminar/discussion group each week

PR: BIOL 2250, 2600 and 2900 and one of BIOL 2010, 2122 or 2210; Statistics 2550 or equivalent

4402 Electron Microscopy in Life Sciences - inactive course.

4404 Microbial Physiology is a study of the structure and growth of microorganisms. Themes covered in this course include the structure, function and regulation of the microbial cellular machinery, the hierarchical regulation of cellular activities, and communication between cells. Quantitative experimental methodology relating to microbial physiology is studied in the laboratory.

LH: 3

PR: BIOL 2250 and BIOL 3050

4405 Landscape Ecology is an introduction to the theory and principles of landscape pattern and processes, including issues related to scale, networks, landform and vegetation patterns, species distributions, and natural and human-caused aspects of landscape change.

CO: Statistics 2550 or equivalent

LH: 3

PR: Statistics 2550 or equivalent

PR: BIOL 2600 and 18 credit hours in Biology or permission from the course instructor

4505 Systematics and Biogeography is a study of the geographical distributions of plants and animals with particular reference to temporal and spatial variability and to theories advanced to explain historical and recent distribution patterns.

CR: the former Geography 4170

LH: 3

PR: BIOL 2250, 2600, 2900 and one of BIOL 2010, 2122 or 2210

4510 Distribution Patterns in the Sea - inactive course.

4550 Principles of Endocrinology comprises an introduction to basic concepts concerned with how chemical messages are transmitted and received between cells to coordinate body functions. Hormonal control of adaptation, reproduction, metabolism, growth, digestion, and electrolyte homeostasis will be discussed. Although the endocrinology of invertebrates and lower vertebrates will be mentioned as appropriate, the main emphasis will be on mammalian and human endocrinology at the level of the whole organism.

LH: 3

PR: BIOL 3401; Biochemistry 3106

4601 Functional Biology of Fish is an introduction to anatomical, physiological and cellular aspects of selected processes in the life cycle of fishes.

PR: BIOL 2060, 2210, and 3401

4605 Quantitative Methods in Biology (same as Statistics 4581 and the former Statistics 4605) is quantitative reasoning using verbal, graphical and statistical models of scaled quantities (units and dimensions). Exploratory and confirmatory analysis of field and laboratory data. Hypothesis testing, including randomization tests. Topics include the general linear model (t-tests, anova etc), correlation, autocorrelation, geographic statistics, estimates of population size and multivariate methods.

CR: Statistics 4581 and the former Statistics 4605

LH: 3

PR: Statistics 2550

4620 Ornithology examines structure, classification, evolution, ecology and behaviour of birds, with particular reference to those of economic importance. Identification of the birds of Eastern Canada.

LH: 3

PR: BIOL 2210 and 2600

4630 Mammalogy examines evolution, systematics, life histories and distribution of mammals, with particular emphasis on eastern North American forms.

LH: 3

PR: BIOL 2210 and 2600

4650 Conservation Biology I: Conservation in Biology and Geography is an examination of how biological and geographical principles can be applied to conserving biological diversity in the natural world under conditions of exploitation and habitat loss. Special emphasis will be given to relevant provincial examples.

CR: Environmental Science 4133

OR: 3 hours of seminar/discussion group each week

PR: 30 credit hours in either Biology or Geography

4651 Conservation Biology II: Conservation in Practice examines issues relevant to global conservation science. Topics will be covered through a series of modules, including conservation genetics, costs and consequences of small populations, effects of anthropogenic activity on biodiversity, spatial dynamics, and the interface between science and society.

PR: BIOL 2900, 3295 and 4650

4701 Animal Behaviour II (same as Psychology 4701) is an examination of the behaviour of animals with particular emphasis on evolution and ecology. Topics include behavioural genetics and evolution, reproductive strategies, social behaviour, habitat selection, territoriality, foraging behaviour, and other topics in biology and psychology.

CR: Psychology 4701

LH: 3

PR: BIOL 3750 or Psychology 3750

4710 Experimental Marine Ecology of Newfoundland Waters is a two-week field course examines the ecology of cold ocean environments, focussing on energy flux through marine pelagic and benthic flora and fauna of Newfoundland waters, and how the dynamics of this environment influence linkages among organisms in different habitats. The course will be field intensive with some lecture component and a strong hands-on field component. Students will identify local organisms and study how and why they vary in time and space. This course will be offered during two weeks of the Spring semester.

PR: BIOL 2600

4750 Fisheries Ecology is the application of ecological principles to the problem of managing exploited fish populations. Laboratory exercises will be based on a simulation approach to fisheries problems using computer and animal models.

LH: 3
PR: BIOL 2600

4800 Advanced Palaeontology (same as Earth Sciences 4800) is a field, lecture, laboratory and seminar course dealing with selected topics in general and applied paleontology. Topics include measuring evolution and extinction, population paleontology, functional morphology, paleoecology, statistical methods for paleontological studies, and applications in petroleum, mining, and environmental studies. This course is taught and administered by the Department of Earth Sciences.

CR: Earth Sciences 4800
LH: 3
PR: Earth Sciences/BIOL 3811, and one of Statistics 2510, Statistics 2550 or Mathematics 2000

4810 Research Field Course in Marine Biology will consist of an intensive two-week field school designed to acquaint students with marine field research, experimental design, methodology and data analysis. Emphasis will be placed on individual projects. Projects must be designed and approved prior to the commencement of the course and will involve a written report. At the discretion of the Head of Department, another recognized field course may be substituted for BIOL 4810.

PR: BIOL 3710 and any two of BIOL 2010, 2122 or 2210 and permission of the Head of the Department. It is strongly recommended that students take BIOL 3709 before 4810.

4820 Field Course in Terrestrial Biology will begin with a three-week field school immediately prior to the beginning of the Fall Semester. It is designed to acquaint students with terrestrial organisms and environments, and emphasis will be placed on survey and sampling techniques. In the Fall Semester the material and data collected in the field will be used in lecture and laboratory periods dealing with identification, analytical methods, and report compilation.

PR: BIOL 2010, 2122, 2210, 2600 and permission of the Head of the Department. It is recommended that students complete BIOL 4605.

4822 Internship in Biology - inactive course.

4910-4920 Special Topics in Biology will be given for senior undergraduates and will be in a two-week format which will involve equivalent instruction time as a course on campus. These courses will cover a range of topics in specialized fields in Biology and may be offered at the Bonne Bay Field Station, at the Harlow campus or elsewhere as appropriate. They may be taught by visiting specialists when available.

499A and 499B Honours Dissertation is available only to students in the Honours Program. Requirements for the Dissertation are outlined under Honours Degrees.

PR: admission to the Honours Program

8.3 Chemistry

Credit will be given for no more than one of the former Chemistry 1000, Chemistry 1010, 1050, 1200, the former 150A/B, no more than one of Chemistry 1001, 1031, 1051, the former 150A/B, and no more than one of Chemistry 1001, 1011, 1051, the former 150A/B. Credit will only be given for one of the following pairs of courses, Chemistry 2301 and Chemistry 2300 (offered at Grenfell Campus), Chemistry 2302 and the former Chemistry 3301, and Chemistry 3303 and the former Chemistry 3300. Students may obtain credit for only one of CHEM 2100 or the former CHEM 3100. Students may obtain credit for only one of CHEM 3110 or the former CHEM 4110, the former CHEM 4100 or the former CHEM 4101.

Chemistry courses are designated by CHEM.

1010 Introductory Chemistry I examines descriptive chemistry; measurements; atoms; molecules; the mole; mole calculations and reaction stoichiometry; chemical bonding; gases; thermochemistry, atomic structure, periodic properties; the physical properties of matter.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LC: 4
LH: 3
PR: It is recommended that students have at least 70% in high school Academic Mathematics 3204, or a pass in any university level mathematics course.

UL: only 6 science credit hours will be awarded for a major or honours in Chemistry from the following course groups: CHEM 1010/1011/1031, or CHEM 1810/1200/1001 (Grenfell Campus)

1011 Introductory Chemistry II examines balancing redox reactions;

chemical bonding including VSEPR shapes and polarity; introduction to valence bond theory and hybridization; liquids, solids and intermolecular forces; chemical kinetics; chemical equilibrium; acids and bases; solubility equilibrium; electrochemistry.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LC: 4
LH: 3
PR: CHEM 1010
UL: only 6 science credit hours will be awarded for a major or honours in Chemistry from the following course groups: CHEM 1010/1011/1031, or CHEM 1810/1200/1001 (Grenfell Campus)

1031 Introductory Chemistry III (F) & (I) prepares students who have completed CHEM 1010 and 1011 for CHEM 2100, 2210, 2301, 2302 and 2400. It augments the topics covered in CHEM 1010 and 1011 with the greater depth and problem solving emphasis of CHEM 1050 and 1051.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LC: 4
LH: 3
PR: CHEM 1011 and Mathematics 1000
UL: only 6 science credit hours will be awarded for a major or honours in Chemistry from the following course groups: CHEM 1010/1011/1031, or the former CHEM 1800/1200/1001 (Grenfell Campus)

1050 General Chemistry I has topics that will be similar to CHEM 1010/1011 but will be treated in greater depth with an emphasis on problem solving.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LC: 4
LH: 3
PR: at least 75% in high school CHEM 3202 and successful completion of high school Advanced Mathematics 3205 and Mathematics 1000 which may be taken concurrently with CHEM 1050.

UL: only 6 science credit hours will be awarded for a major or honours in Chemistry from the following course groups: CHEM 1010/1011/1031, or the former CHEM 1800/1200/1001 (Grenfell Campus)

1051 General Chemistry II has topics that will be similar to 1010/1011 but will be treated in greater depth with an emphasis on problem solving.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LC: 4
LH: 3
PR: CHEM 1050 and Mathematics 1000
UL: only 6 science credit hours will be awarded for a major or honours in Chemistry from the following course groups: CHEM 1010/1011/1031, or the former CHEM 1800/1200/1001 (Grenfell Campus)

2100 Analytical Chemistry I (F) & (W) (same as the former CHEM 3100) is an introduction to analytical chemistry and includes preparation of samples and standards, calibration methods, statistical treatment of data, spectrophotometric trace analysis, gravimetric analysis and volumetric analysis including acid-based titrations, precipitation titrations, oxidation-reduction titrations, complexometric titrations and titrations in non-aqueous systems. Also introduced are liquid-liquid and other types of extraction, and chromatography with key methods of detection. Theoretical, practical and problem-solving aspects are covered.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 3100
LH: 4
PR: CHEM 1051 (or 1001 or 1031) with a grade of at least 60%

2210 Introductory Inorganic Chemistry (W) studies the chemistry of selected s, p, and d block elements. Introduction to crystal and molecular structures and to molecular orbital and crystal field theories.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LH: 3
PR: CHEM 1051 (or 1001 or 1031), Mathematics 1000

2301 Thermodynamics and Kinetics (F) builds upon knowledge of physical chemistry from first year. It covers the three laws of thermodynamics for ideal and real systems as well as chemical kinetics. Topics in thermodynamics include the thermodynamics of ideal and real gases, phases, and solutions, the Maxwell relations, equilibria between phases, and in electrolyte solutions. The integrated rate laws for simple and complex mechanisms, and the temperature dependence of reaction rates in terms of kinetic molecular theory are some of the topics discussed in the kinetics section of the course.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.
CO: Mathematics 2000 is recommended
CR: CHEM 2300 (offered at Grenfell Campus)
LH: 3
PR: minimum 60% in CHEM 1051 (or CHEM 1001 or CHEM 1031),
Mathematics 1001 and Physics 1051 or Physics 1021

2302 Quantum Chemistry and Spectroscopy (W) examines the quantum mechanics of simple systems such as the particle in a box, the harmonic oscillator, linear rotor, and hydrogen-like atoms. Topics also include orbital quantum numbers, spin, many electron atoms, an introduction to quantum mechanical methods, the electronic structures of molecules, bonding, and symmetry. Furthermore, electronic, rotational, and vibrational spectroscopy will be discussed as well as modern applications of spectroscopy and lasers.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CO: Mathematics 2000 is recommended
CR: the former CHEM 3301

LH: 3
PR: minimum 60% in CHEM 1051 (or CHEM 1001 or CHEM 1031),
Mathematics 1001 and Physics 1051 or Physics 1021

2400 Introductory Organic Chemistry I (F) is a course on bonding involving carbon; conformations and stereochemistry; introduction to functional groups and nomenclature; properties, syntheses and reactions of hydrocarbons, alkyl halides and alcohols.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 2420, 2440 and the former 240A/B
LH: 3

PR: CHEM 1051 or 1031; or CHEM 1010 and 1011 with a grade of at least 80% in each; or CHEM 1011 with a grade of at least 85%; or CHEM 1001 with a grade of at least 65%

2401 Introductory Organic Chemistry II (W) is an introduction to the interpretation of infrared, H and C-13 NMR spectra; properties, syntheses and reactions of ethers, simple aromatic compounds, ketones, aldehydes, amines, carboxylic acids and their derivatives; aldol and related reactions.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 2420, 2440, and the former 240A/B
LH: 3

PR: CHEM 2400

2440 Organic Chemistry for Biologists (F) & (W) is an introduction to the principles of organic chemistry with an emphasis on material relevant to biological molecules. The laboratory will introduce techniques and illustrate concepts covered in the course. This course is designed primarily for Biology Majors.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: CHEM 2400, the former 2420, the former 240A/B
LH: 3

PR: CHEM 1011 (or 1001 or 1051)

UL: may not be used for credit by Chemistry or Biochemistry Majors and is not a prerequisite for any other Chemistry course.

3110 Analytical Chemistry II (F) (same as the former CHEM 4110) builds upon the student's knowledge from CHEM 2100 (Analytical Chemistry I) and applies it to a more advanced level of instrumental quantitative analysis. The course examines error treatment, atomic emission, an absorption spectroscopy, gas and liquid chromatography, capillary electrophoresis and supercritical fluid chromatography and extraction techniques, electroanalytical chemistry, molecular and atomic mass spectrometry, x-ray spectroscopy, ion and electron spectroscopy, surface analysis techniques and thermogravimetric analysis.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 4100, the former CHEM 4101, or the former CHEM 4110

LH: 3

PR: CHEM 2100 or the former CHEM 3100

3210 Main Group and Materials Chemistry (F) is a detailed examination of the chemistry of the s and p block elements and modern applications of inorganic chemistry in materials and nanotechnology.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LH: 3

PR: CHEM 2210, CHEM 2301 (or 2300), and CHEM 2302

3211 Inorganic Chemistry (W) is a detailed examination of the structure, bonding, and chemistry of the d block elements.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LH: 3

PR: CHEM 2210, CHEM 2301 (or 2300), and CHEM 2302

3303 Statistical Thermodynamics and Rate Theories (W) examines physical chemistry from the microscopic viewpoint. Topics include probability distributions, quantum statistical mechanics, statistical thermodynamics, ensembles, kinetics and introduction to statistical rate theories as well as an introduction to computational chemistry (lab).

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 3300

LH: 3

PR: CHEM 2301 (or 2300) and CHEM 2302 (or the former CHEM 3301)
Mathematics 2000 and Mathematics 2050.

3410 Bio-organic Chemistry (F) is a study of the major classes of biomolecules, their structure, function, and in vitro chemistry. An introduction to natural products. Synthetic polymers compared to biopolymers. Heteroaromatic molecules and derived biomolecules.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 3401

LH: 3

PR: CHEM 2401. It is recommended that CHEM 3500 be taken concurrently.

3411 Synthetic Organic Chemistry I (W) is a survey of some important reactions used in organic synthesis, including pericyclic reactions and those based on carbocation, carbene, nitrene and carbanion intermediates. Emphasis is placed on multifunctional compounds.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

CR: the former CHEM 3400

LH: 3

PR: CHEM 3410, or all of CHEM 2401, Biochemistry 2100 and Biochemistry 2101

3500 Spectroscopic Analysis: Spectroscopy and Structure (F) is the application of spectroscopic methods to the determination of molecular structure. Emphasis will be placed on electronic, vibrational and rotational spectroscopy, nuclear magnetic resonance spectroscopy and mass spectrometry.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LH: 3

PR: CHEM 2210, CHEM 2302 (or 2300) and CHEM 2401

3600 Marine Chemistry (W) - inactive course.

4150 Advanced Spectrometric Techniques - inactive course.

4151 Analytical Separations and Organic Mass Spectrometry examines advances in the traditional chromatographic techniques, the development of new analytical tools in separation science, the interfacing of mass spectrometers to chromatographic instruments, and other mass spectrometric techniques.

AR: attendance is required in the laboratory component of this course.
Failure to attend may result in a failing grade or deregistration from the course.

LH: 3

PR: CHEM 3110 (or the former CHEM 4100 or the former CHEM 4101 or the former CHEM 4110)

4152 Electroanalytical Techniques examines the principles and theory of dynamic electrochemistry, voltammetry, stripping analysis, electro-chemical sensors and detectors.

PR: CHEM 3110 (or the former CHEM 4100 or the former CHEM 4101 or the former CHEM 4110)

4201 Coordination Chemistry in Biological Molecules - Structural, Mechanistic and Magnetic Studies examines the role of certain transition elements e.g. iron, copper, cobalt, and zinc, in proteins and enzymes will be discussed in terms of structural features, the natural ligands, magnetic properties, mechanisms, etc., and reinforced with examples of 'model compounds'. Magnetic theory, in particular for polynuclear transition metal complexes, will also be developed.

PR: CHEM 3211

4202 Selected Topics in Main Group Chemistry - inactive course.

4203 Organometallic Chemistry is principles and applications of

organometallic chemistry with emphasis on compounds of the transition metals, lanthanides and actinides. A study of synthetic methods, structure, bonding, reactions and applications of these concepts to organic synthesis and to catalysis.

PR: CHEM 3211

4204 Inorganic Reaction Mechanisms and Catalysis is a survey of inorganic and organometallic reactions, their mechanisms and kinetic characteristics. In addition, stereochemical non-rigidity, reactions of coordinated ligands and homogeneous catalysis are discussed.

PR: CHEM 3211

4205 Photochemistry of Transition Metal Complexes is an introduction to the theory of electronic excited states in transition metal complexes. Applications to artificial photosynthesis, photodynamic therapy, molecular photovoltaics and molecular electronics.

CO: CHEM 3211 and CHEM 2302

PR: CHEM 3211 and the former CHEM 3301 or CHEM 2302

4206 Green Chemistry examines the benefits and limitations of new methods aimed at reducing the environmental impact of chemical processes including waste prevention, hazard/risk reduction, catalysts, renewable feedstocks and alternative solvents.

PR: CHEM 2401 and CHEM 3211

4303 Equilibrium Statistical Mechanics is a course which examines probability theory, ensembles, and quantum statistical thermodynamics of ideal gases, perfect crystals, metals and radiation. Semiclassical statistical thermodynamics, distribution functions, as well as dense gases and liquids are also discussed.

CR: the former CHEM 4301 or the former CHEM 4302

LH: 3

PR: CHEM 3303 or the former CHEM 3301

4304 Advanced Quantum Chemistry examines exact solutions to the Schrodinger equation, introduction to approximate methods, modern methods (wavefunction and density functional theories), spectroscopy, and applications of computational chemistry.

CR: the former CHEM 4300

PR: CHEM 2302 (or the former CHEM 3301) and Mathematics 3260. Due to the requirement of Mathematics 3260, students wishing to take this course should plan ahead.

4350 Advanced Physical Chemistry III: Selected Topics in Physical Chemistry (W) - inactive course.

4411 Topics in Medicinal Chemistry - inactive course.

4420 Physical Organic Chemistry (F) is an introduction to the quantitative and qualitative theories of reactions and reactivity and their application to organic reaction mechanisms and to mechanism elucidation.

CR: the former CHEM 4400 and the former CHEM 4401

PR: CHEM 2302 or the former CHEM 3301, and CHEM 3411 or the former CHEM 3401. CHEM 3500 is strongly recommended.

4430 Synthetic Organic Chemistry II (W) examines modern synthetic methods with particular attention placed on the synthesis of enantiomerically enriched compounds and newer methods for the formation of carbon-carbon bonds. Designing syntheses of complex organic molecules.

CR: the former CHEM 4410

PR: the former CHEM 3401 or 3411. CHEM 4420 is strongly recommended.

490A/B Honours Research in Chemistry is available only to students in Chemistry Honours or Chemistry Joint Honours Programs. These courses are two single-semester, linked courses based on independent research carried out under the supervision of a faculty member in the Department of Chemistry. Research undertaken for these courses must have a clear disconnect from any research previously conducted. These courses are mandatory for Honours Chemistry students. A grade of pass in 490A is required to proceed to 490B. A written thesis is to be handed in by the end of the course. 490A and 490B are to be taken in the Fall and Winter semesters in the same academic year.

CH: 6

PR: admission to the Honours Chemistry Program or Chemistry Joint Honours Program and honours standing

UL: may be taken by students not in an Honours program or without Honours standing with the permission of the Head of the Department and a research supervisor.

8.4 Computer Science

Computer Science courses are designated by COMP.

8.4.1 First Year Courses

1510 An Introduction to Programming for Scientific Computing (F) & (W) introduces students to basic programming in the context of numerical methods with the goal of providing the foundation necessary to handle larger

scientific programming projects. Numerical methods to solve selected problems from Physics, Chemistry, and Mathematics will be covered.

CR: COMP 2602, the former Mathematics 2120

LH: 2

PR: Mathematics 1000

1550 Introduction to Multimedia Application Development (F) is an introduction to programming and computer science with an emphasis on the development of multimedia applications. The course introduces the fundamental principles of programming, including object-oriented and event-driven programming, how to use and create classes and methods and combine them with multimedia libraries to produce animations, handle input from keyboard and mouse, and import sounds and videos to produce multimedia applications which can be directly deployed on the Internet.

LH: 2

1600 Basic Computing and Information Technology (F) & (W) offers an overview of computers and information technology. It provides students with the knowledge necessary to answer questions, such as: What is a computer system? How does it work? How is it used? This is done through the use of popular spreadsheet, word processing and database software packages and the Internet. Social issues and implications will also be included.

CR: COMP 2650 or COMP 2801

LH: 3

1700 Introduction to Computer Science (F) & (W) lays the foundation for the art and the science of computing. The course contains fundamental and topical issues in computers, languages, programming and applications. This course is designed for potential Computer Science majors without a background in programming, but is also available for non majors.

LH: 3

1710 Object-Oriented Programming I (F) & (W) is an introduction to fundamental programming techniques, primitive data types and operations, program control structures and the use of objects, classes and methods.

CR: if previously completed or currently registered for COMP 2710

LH: 3

8.4.2 Second Year Courses

2000 Collaborative and Emergent Behaviour is a survey of computation as a means of understanding, modelling, and describing artificial and natural systems. The emergence of complex behaviour from the interaction of simple rules governing individual components is illustrated and discussed, as well as the role of communication between system components. Selected systems to be studied will be drawn from different topic areas which may include the worldwide web, the mind (cognitive science), formal logic, autonomous robotics, chaos and fractals, and bioinformatics. Each topic will incorporate an associated laboratory experience.

LH: 3 hours bi-weekly

2500 Data Analysis with Scripting Languages (F) & (W) introduces the use of scripting languages to solve common data analysis tasks. The control structures and expressions of the language are first discussed. Script solution to storing/retrieving data sets, searching data sets, and performing numeric and statistical calculation are covered. Plotting and visualization for data sets are also presented.

PR: COMP 1510 or COMP 1700 or COMP 1710 or COMP 2602 (or equivalent)

2602 Computer Programming in FORTRAN (F) is a study of algorithmic problem solving and structured programming techniques; the Fortran programming language and its application to computer solutions of scientific problems; numeric and non-numeric problems are examined with emphasis on code modularity and reusability of the components.

CR: COMP 1510

PR: Mathematics 1000

2650 Problem-Solving with Personal Computers (F) & (W) is an overview of tools and techniques that current computer technology offers in a PC based networked environment. The emphases are on conceptual understanding of the software, from exploring capabilities of the existing software tools to learning methods of extending these capabilities. The key topics include problem-solving strategies, visual programming, macro-language operations, object linking and embedding, digital communication, and developing interactive web pages. The course has a practical flavour. In structured laboratory sessions, students gain proficiency in using personal computers for solving common problems.

CO: Mathematics 1000

CR: COMP 1600, COMP 2801, or the former Business 2700

PR: Level III Advanced Mathematics or Mathematics 1000 or Mathematics 1090 (or equivalent)

2710 Object-Oriented Programming II (F) & (W) continues from Object-Oriented Programming I, and studies object-oriented and event-driven programming. Additional topics include: recursion, basic analysis of algorithms, fundamental data structures such as simple linked structures and stacks, and fundamental computing algorithms such as binary search and quadratic time sorting. A brief overview of programming languages,

virtual machines and language translations is also provided.

LH: 3

PR: COMP 1710 and Mathematics 1000

2711 Introduction to Algorithms and Data Structures (F) & (W) includes the study of standard ways of organizing and manipulating data in computer storage. Fundamental concepts in the design and analysis of algorithms are also discussed.

LH: 3

PR: COMP 2710. It is recommended that students complete COMP 2742 prior to registering for COMP 2711

2742 Logic for Computer Science (F) & (W) is an introduction to propositional and predicate logic with applications. The use of the system of boolean logic in reasoning and circuit design, as well as basic proof techniques and the resolution principle, for both propositional and predicate logic, will be covered. Concepts involving sets will be used to illustrate different types of proof techniques. The probable intractability of boolean logic and Goedel's incompleteness theorem will be presented.

PR: COMP 1710 and Mathematics 1000

2752 Introduction to Business Data Processing (F) - inactive course.

2760 Encountering the Computer: Society and the Individual (F) & (W) examines social, ethical, legal and cultural issues surrounding the use of computers in modern society. These broader social issues are followed by an examination of the use of social and individual psychology in user interface design. Students will be expected to demonstrate an understanding of these issues both directly (through verbal and written discourse) and practically, as applied to the creation of actual software artifacts.

CO: COMP 2710

PR: two 1000-level English courses, or equivalent

2801 Introductory Computing for Business (F) & (W) introduces students to computer applications in business, document processing, application development, decision support, and information management. A three hour laboratory is required.

CO: Mathematics 1000

CR: COMP 1600, COMP 2650, or Business 2700

PR: Level III Advanced Mathematics or Mathematics 1000 or Mathematics 1090 (or equivalent)

8.4.3 Third Year Courses

3550 Introduction to Bioinformatics (same as Biology 3951) deals with the development and application of computational methods to address biological problems. The course will focus on the fundamental concepts, ideas and related biological applications of existing bioinformatics tools. This course will provide hands-on experience in applying bioinformatics software tools and online databases to analyze experimental biological data, and it will also introduce scripting language tools typically used to automate some biological data analysis tasks.

CR: Biology 3951

LH: 3

PR: Biology 2060 or Biochemistry 2101, and one Computer Science course at the 1000-level or above excluding COMP 1600 and COMP 2000; or COMP 2500 or COMP 2710, and one Biology course at the 1000-level or above excluding Biology 2040 and Biology 2041; or permission of the course instructor

3700 Industrial Experience (F), (W), (S) is a course for students who are admitted to CIIO. Students are required to register for this non-credit course every semester during their internship. This course is open only to students who have been accepted into the Internship Program and provides an opportunity for qualified students to obtain rewarding job experience of 8, 12 or 16 months of continuous duration, during the course of their studies.

CH: 0

PR: admission to the Computer Industry Internship Option (CIIO)

3710 Vocational Languages (W) is a study of several programming languages of vocational significance (e.g. a selection from C, C++, Prolog, Perl, Python and LISP). The use of appropriate programming paradigms to solve some significant problems.

PR: COMP 2711

3714 Programming Languages and their Processors (F) & (W) reviews typical elements of (imperative) programming languages, and then discusses language implementations in the form of compilers and interpreters. The topics include specification of syntax and semantics of programming languages, discussion of expressions and assignments, side effects, control structures, data and procedural abstractions, parameter passing mechanisms, bindings, scopes, and type systems. The recursive-descent technique is used for illustrations of different aspects of syntax analysis, code generation and error recovery. Language interpreters are discussed for both low-level and high-level languages.

PR: COMP 3719 and 3724

3715 Network Computing with WEB Applications (F) & (W) studies how distributed applications (e.g., client/server Web applications) are constructed

using the Internet. Topics covered include: the socket interface for network communication, client/server applications, browser scripting using Javascript, content generation for web applications (e.g., jsp, php), html/css documents, and the use of cryptography to handle security.

PR: COMP 2711

3716 Software Methodology (F) & (W) studies the development of software by gathering the requirements of the software program, analysing the requirements to create a development model, and creating the software and documents for the software product. This course studies techniques for all three software development activities.

PR: COMP 2711

3717 Symbolic Computation and Recursion (W) - inactive course.

3718 Programming in the Small (F) demonstrates the tools and techniques used in the construction of small software systems. The software tools and techniques to be covered include analysis and design of software components, software construction tools (e.g. linkers, builders, debuggers), software library use and design, and system integration.

PR: COMP 2711 and Mathematics 2320

3719 Theory of Computation and Algorithms (F) & (W) is an introduction to formal algorithmic problem solving. Various algorithm design techniques that sometimes yield efficient solutions are studied. Deterministic and nondeterministic machines (finite state automata, pushdown automata and Turing machines) are discussed and used to efficiently solve problems such as the String Matching Problem, the parsing of Context-free Languages, and to introduce the theory of NP-completeness. In addition, Turing machines are used to prove the unsolvability of certain problems. Tractable, intractable and undecidable problems are contrasted. Basic issues related to parallelization are discussed as well.

CR: the former COMP 3711 and the former COMP 3740

PR: COMP 2711 and Mathematics 2320

3723 Logic Design (F) - inactive course.

3724 Computer Organization (F) & (W) can be studied at the digital logic implementation level, the instruction set architecture level, and the translation of programming languages to the underlying machine instruction level. This course studies computer organization at these levels.

CO: Mathematics 2320

PR: COMP 2711 and COMP 2742

3725 Computer Architecture and Operating Systems (F) & (W) covers system design and the architectural implementations of these designs. The objective is to develop the basic concepts of processor design, memory management, operating systems, and I/O devices and their interactions.

PR: COMP 3724

3731 Introduction to Scientific Computing (W) main objectives are the development of algorithms for the numerical solution of mathematical problems and the study of the numerical stability of these algorithms. The efficiency of these algorithms with respect to speed and storage requirements is considered as well. Emphasis is also placed on the study of the sensitivity of selected problems to perturbations in the data. There is also a brief introduction to the development of numerical algorithms that take advantage of advanced computer architectures, such as pipeline processors, array processors and parallel processors.

CR: Mathematics 3132

PR: Mathematics 2000 and Mathematics 2050, and one of COMP 2602 or COMP 2710

3751 Computational Aspects of Operations Research (W) - inactive course.

3753 Computational Aspects of Linear Programming (F) is an introduction to the Linear Programming Problem (LPP). The emphasis is placed upon developing the most recent and numerically reliable algorithms for the solution of the Linear Programming Problem. The numerical stability of these algorithms will be examined as well. Geometric understanding of the LPP. Simplex method for the LPP. Sparse matrix LPP. Duality and postoptimality analysis. Extensions to the simplex algorithm. Principles of interior algorithms for the LPP.

PR: Mathematics 2050, and one of COMP 2602 or 2710

3754 Introduction to Information and Intelligent Systems (F) & (W) introduces students to application areas that are away from usual number-based and text-based processing. Students will learn the basic concepts and become aware of the historical developments and social and ethical issues related to the application areas such as intelligent systems and information management. This exposure will help students to become knowledgeable about managing large volumes of data and dealing with problems that are well defined but whose algorithmic solutions are not feasible or problems that are fuzzily defined.

PR: COMP 2711 and COMP 2742

3790 Directed Readings - inactive course.

8.4.4 Fourth Year Courses

4711 Structure of Programming Languages covers programming language design considerations; syntactic and semantic structure; survey of typical features and operations; analysis of facilities for control and data structuring; language extensibility; execution models; formal specification of programming languages.

PR: COMP 3719 and COMP 3724

4712 Compiler Construction studies properties of formal grammars and languages; syntax-directed parsing and code generation; top-down and bottom-up parsing methods; LL(k) and LR(k) grammars and parsers; Code optimization; compiler writing tools.

PR: COMP 3719 and COMP 3724

4715 and 4717 Special Topics in Programming Languages

4718 Survey of Software Engineering surveys the major topics of software engineering. Areas covered include: requirements capture, system design and design approaches, verification and validation (including formal methods and testing), and management of the software development process.

PR: COMP 3716

4719 Software Specification - inactive course.

4721 Operating Systems studies the design and implementation of an operating system's kernel. The main components used in operating system implementations include: context switches, process management, memory management, interprocess communication, file systems and system calls. The data structures and algorithms used in implementing the above components are studied. The different architectural styles of kernel implementation are also considered. Real-time operating systems are also discussed.

CR: Engineering 8894

PR: COMP 3725

4723 Introduction to Microprocessors examines the architecture and instruction sets for several microprocessors. The use of microprocessors as device controllers; comparisons of hardware and programmed techniques; microprocessor interfacing with external devices; methods of I/O; bus structures; modern microprocessor support devices are discussed.

LH: Minimum of three hours per week. Practical experience with basic principles will be obtained through laboratory experience.

PR: COMP 3724

4725 Introduction to LSI Design - inactive course.

4726-4729 Special Topics in Computer Systems

4734 Matrix Computations and Applications is an introduction to linear algebra; solution to linear systems; scaling, improving and estimating accuracy; the linear least squares problem; the eigenvalue problem; singular value decomposition of a matrix; the generalized eigenvalue problem.

PR: COMP 3731

4735 Advanced Matrix Computations and Applications - inactive course.

4736-4739 Special Topics in Numerical Computations

4740 Design and Analysis of Algorithms will give an overview of techniques for the design of efficient optimal-solution and heuristic algorithms. It will include an introduction to various advanced data structures for set and string processing that are used to further optimize algorithm efficiency.

PR: COMP 3719

4741 Formal Languages and Computability is an in-depth study of various types of formal machines and their associated languages. Effective computability and other formalisms, such as lambda calculus will be studied as well.

CR: the former COMP 3740

PR: COMP 3719

4742 Computational Complexity is an in-depth discussion of computational complexity theory. Topics covered in the course include: models of computation (for both serial and parallel computations); complexity measures; reducibility; complexity classes (NP, PSPACE, NC, LOGSPACE and P); and randomized computations.

PR: COMP 3719

4743 Graph Algorithms and Combinatorial Optimization discusses classical problems in combinatorial optimization and graph algorithms, including matching, colorability, independent sets, isomorphism, network flows and scheduling. Special families of graphs are discussed and algorithms that would otherwise be NP-hard or complete are shown to be polynomial time when restricted to such families.

PR: COMP 3719

4745-4749 (Excluding 4748) Special Topics in Theoretical Aspects

4748 Introduction to the Science of Complexity is an exploration of the

use of computers in the simulation of complex systems. Some theories and models, such as cellular automata, artificial life, fractals, genetic algorithms, chaos, and evolution will be discussed and will be used in the modelling of "real-life" systems. The approach in this course is practical. Students have to write a number of programs of different levels of sophistication including a final project.

PR: COMP 3719

4751 Computer Graphics examines display devices, display processors, display file compilers, display transformations, structured display files, graphical input devices, perspective, hidden line elimination, languages and graphics systems.

LH: 3

PR: COMP 3719 and Mathematics 2050

4752 Introduction to Computational Intelligence provides an introduction to four of the fundamental computational intelligence methods: artificial neural networks, evolutionary computation, swarm intelligence and fuzzy systems. The integration of these techniques for problem solving will also be introduced.

PR: COMP 3719 and COMP 3754

4753 Artificial Intelligence has selected topics from AI programming languages; heuristic searching; problem solving; game-playing; knowledge representations; knowledge-based systems; reasoning in uncertainty situations; planning; natural language understanding; pattern recognition; computer vision; and machine learning.

PR: COMP 3719 and 3754

4754 Database Systems introduces students to database processing, database management systems and database design considerations. It will cover the theory and methodologies essential for the relational database design, implementation, manipulation, optimization and management.

PR: COMP 3725 and 3754

4756 Image Processing will centre on the key analytical and algorithmic tools and concepts of digital image processing. Topics will include Transformations, Enhancement, Encoding, Data Bases, Segmentation and Description.

LH: 3

PR: COMP 3719

4759 Computer Networks looks at how the operation of computer networks requires the following: a) communication between two computers, b) information transfer between two computers not directly connected, and c) services that need computer communication. This course focuses on the standard solutions and services used to fulfill the previous requirements. These include: physical transmission of signals, reliable communication based on unreliable communication channels, the routing of messages between connected computers to reach computers that are not directly connected, e-mail, file transfer, name servers, remote terminal access and the World Wide Web. Particular attention will be placed on the workings of the Internet.

PR: COMP 3715 and COMP 3725

4761 Human-Computer Interaction - inactive course.

4762 Introduction to Computational Molecular Biology will give an overview of computational problems and algorithms for these problems associated with a variety of analyses of biological molecular data.

PR: COMP 3719

4766 Introduction to Autonomous Robotics examines the fundamental constraints, technologies, and algorithms of autonomous robotics. The focus of this course will be on computational aspects of autonomous wheeled mobile robots. The following topics will be covered: major paradigms in robotics, methods of locomotion, kinematics, simple control systems, sensor technologies, stereo vision, feature extraction, modelling uncertainty of sensors and positional information, localization, SLAM, obstacle avoidance, and 2-D path planning.

PR: COMP 2711, Mathematics 2000, Mathematics 2050, and Statistics 1510 or 2510

4767 Information Visualization and Applications focuses on the design and implementation of interactive visualization techniques for the analysis, comprehension, exploration, and explanation of large collections of abstract information. Topics to be covered include principles of visual perception, information data types, visual encodings of data, representation of relationships, interaction methods, understanding user goals and tasks, and evaluation techniques. Case studies of accepted techniques and the current state-of-the-art in information visualization will be presented.

PR: COMP 2760 and COMP 3719

4768 Software Development for Mobile Devices focuses on the design and implementation of software in a mobile networking environment. The primary topics to be covered in this course include software engineering, network computing, graphics programming, and human-computer interaction for mobile devices. A modern mobile device with advanced networking and graphic features, including multi-touch interaction and motion sensors will be used as the primary platform for development in this course.

LH: One and one-half hours per week
PR: COMP 2760, COMP 3715 and COMP 3716

4770 Team Project has as its main objective to develop a working prototype of a software system as a team effort. A group of students will work on a project for a term, experiencing the advantages and difficulties of team projects.

PR: COMP 3715, COMP 3716, COMP 3724, and COMP 3754

4780 Honours Project introduces computer science honours students to research activities, familiarizes them with a special problem in computer science, and provides independent study on an advanced topic under the direct supervision of a member of the computer science faculty. The topic is decided in consultation with the supervisor. The student is required to produce a written report on the project, to include the literature search on the

topic, and to present this work at a departmental seminar prior to the last week of the semester.

PR: admission to the honours program and permission of the Head of Department

4800-4825 Special Topics will be offered as departmental resources permit.

CO: Special topics courses are not offered on a regular basis, but whenever departmental resources permit. For these reasons, the co-requisites can vary each time the courses are offered.

PR: Special topics courses are not offered on a regular basis, but whenever departmental resources permit. For these reasons, the prerequisites can vary each time the courses are offered.

8.5 Earth Sciences

The first digit of each course number designates the level (year) of the course. The second digit indicates the area of Earth Sciences into which the course best fits, as follows:

Second Digit

0 - mineralogy and petrology

1 - geophysics

2 - economic geology

3 - stratigraphy and marine geology

4 - structural geology and tectonics

5 - geochemistry

6 - technical fields and petroleum geology

7 - sedimentation, geomorphology

8 - paleontology

9 - general and dissertation

Earth Sciences courses are designated by EASC.

8.5.1 First Year

1000 Earth Systems is a survey of the structure, function and interrelations of Earth's lithosphere, hydrosphere, atmosphere and biosphere. Topics include an exploration of the physical and chemical properties of planetary materials, forces driving and sustaining Earth systems, and biological modifiers (including humankind) on the Earth today.

LH: 3

1001 Evolution of Earth Systems - inactive course.

1002 Concepts and Methods in Earth Sciences provides an introduction to a broad range of concepts concerning the development of the geological record and the Earth; practical methods for collection of field based data; topics in map interpretation and geometric analysis, stratigraphy, paleontology, structure and petrology. The course is presented with an emphasis on the development of practical skills needed to pursue a career in Earth Sciences.

LH: 3

PR: EASC 1000

8.5.2 Second Year

2030 Mineralogy (F) provides an introduction to crystallography and the structure of minerals; introduction to crystal optics; study of the rock forming minerals and minerals of economic significance. Laboratory work comprises study of the structures and symmetries of minerals, chemistry of rock forming minerals, introduction to transmitted light microscopy of rocks, hand specimen recognition of common rocks and minerals.

CO: EASC 2502

CR: the former EASC 203A/B

LH: 3

PR: EASC 1000, Chemistry 1011 (or 1051 or equivalent), Physics 1051 (or 1021 or 1054), and Mathematics 1000

2031 Mineralogy and Petrography (W) examines the optical and chemical properties of rock-forming minerals, the petrography and classification of igneous and metamorphic rocks and applications of relevant phase equilibria to the study of minerals. Laboratory work comprises optical mineralogy and petrography of igneous and metamorphic rocks.

CO: Mathematics 1001

CR: the former EASC 203A/B

LH: 3

PR: EASC 2030, 2502, Mathematics 1001

2150 The Solar System (F) & (W) describes the basic astronomy of the Solar System, tracing the search to understand motion of the Sun, Moon and planets in the sky; modern observations of planets, moons, comets, asteroids and meteorites and what they tell us about the origin and evolution of the Solar System.

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Earth Sciences

2311 Geoscience Communication (W) is an introduction to the fundamentals of preparation of written and oral geoscience reports, emphasizing organization, correct use of terminology, concise description, preparation of abstracts and introductions, integration of numerical data and publication-quality illustrations, and oral presentation skills. Topics for reports will be selected from the subject matter of other 2000 level Earth Sciences courses.

LC: 2

OR: tutorials three hours per week

PR: Earth Sciences 2905 and 6 credit hours in English

2401 Structural Geology (W) provides an introduction to basic concepts; the physics of rock deformation, the classification and descriptive geometry of major and minor structures and their relationship to stress and strain. Laboratory work will concentrate on analysis of structural orientation data, and the analysis of structures in geological maps and cross-sections. Earth Sciences majors are advised to complete field course, EASC 3905, immediately following completion of this course.

CR: the former Geology 3120 or the former EASC 3120 or the former EASC 3400

LH: 3

PR: EASC 2905 or (for students following a Minor in Earth Sciences) permission of the Head of the Department

2502 Introduction to Geochemistry (F) provides an overview of both low- and high-temperature geochemistry. Topics include: origin and classification of the elements; chemical differentiation of the solar system and solid Earth; aqueous geochemistry and the stability of minerals; radiogenic and stable isotopes. Geochemical concepts are illustrated using data and processes drawn from Earth systems. The laboratory component emphasizes the development of numerical skills needed in geochemistry.

CO: Mathematics 1001

LH: 3

PR: EASC 1000, Chemistry 1011 (or 1051 or equivalent)

2702 Sedimentology and Stratigraphy (F) is a study of the origin and composition of sediments with a focus on depositional processes and resulting sedimentary structures. Study of environments of deposition and the stratigraphic framework of sedimentary successions. Laboratories involve local field trips and the study of hand samples of sedimentary rocks.

CR: the former Geology 3070 or the former EASC 3070 or the former EASC 3701

LH: 3

PR: EASC 1002

2905 Introduction to Geological Mapping (F) is based on approximately six days of geological mapping in Precambrian rocks near St. John's, and two days of in-class work preparing a digital map and written report. Emphasis is placed on the recognition and description of sedimentary and igneous rocks in the field, and techniques of geological mapping and the taking of field notes. This course will be given during a special session immediately preceding the fall semester.

AR: attendance is required

CH: 2
 CR: the former EASC 2310 or the former EASC 2300
 OR: field based course
 PR: EASC 1002 and an application to the Head of the Department

2914 The Earth's Energy Resources: Past, Present and Future (F) (formerly Geology 2414 and EASC 2414) provides a scientific analysis of the Earth's energy resources. The history of human exploitation of them; consequences for quality of life, and political and economic power; scenarios for the future. This course is designed for students taking Earth Sciences as an elective subject. This course complements traditional disciplines such as history, economics, and political science and should be of particular interest to teachers.

CR: the former Geology 2414 and the former EASC 2414
 UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Earth Sciences.

2915 The Earth's Material Resources: Past, Present and Future (W) - inactive course.

2916 Natural Hazards on a Dynamic Earth (W) describes the surface of the Earth being in a constant state of change, thereby posing risks and challenges for society. An understanding of geological processes in the past and present provides context for evaluating risks related to earthquakes, volcanic activity and mass movements, challenges related to water resources, land-use planning and waste disposal, and the background to interpret sources and consequences of climate change. The course will provide a broad perspective on contemporary issues facing society. This course is designed for students taking Earth Sciences as an elective subject. This course complements traditional disciplines such as history, economics, and political science and should be of particular interest to teachers.

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Earth Sciences.

2917 Gems: the science and politics introduces students to precious and semi-precious stones both from the perspective of their nature and origin and from the perspectives of geography and the socio-political issues of mining, recovery, trade and cartels. The properties that confer value upon gems (colour, clarity, cut and carat), the techniques used to enhance, fake and imitate gems and the techniques used to detect fraudulent "gems" will be covered. The course will include discussion of the diamond industry in Canada and consideration of some famous gems. This course is designed for students taking Earth Sciences as an elective subject. This course complements traditional disciplines such as history, economics, and political science and should be of particular interest to teachers.

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Earth Sciences.

2918 Earth's Story is an overview of Earth's dynamic past of episodes of supercontinent collision and breakup, massive flooding, global warming and freezing, magnetic field reversals and continents travelling over large distances. The evolution of life is tied to this history and has had equally dramatic turns of rich growth and catastrophic extinction. Discussion will be based on Canadian geology and includes an introduction to techniques used to decipher the rock record.

UL: not acceptable as one of the required courses for the Minor, Major or Honours programs in Earth Sciences.

8.5.3 Third Year

3030 Mineralogy and Materials Science provides a review of elementary crystallography, introduction to space groups and crystal structures, bonding, properties of metals, semiconductors and insulators, crystallographic aspects of order-disorder, solid solution and mixing. Crystal growth, chemical zoning and diffusion. Phase changes in the solid state (exsolution, polymorphism and polytypism). Students will be introduced to the techniques used to study solids (X-ray diffraction, scanning and transmission electron microscopy, electron-microprobe analysis, luminescence, and computer simulation). Laboratory work will emphasize practical skills using these techniques. Examples will be chosen from among minerals, ceramics, semiconductors, metals and glass, making the course suitable for Earth Scientists, Engineers, Chemists and Physicists.

LH: 3
 PR: EASC 2031 or permission of the instructor

3054 High-Temperature Geochemistry and Igneous Petrology (F) is an integrated course dealing with the geochemistry, origin and classification of igneous rocks. Topics include trace element geochemistry; physical properties of magmas, physical and chemical processes in magma chambers (fractional crystallization, differentiation, assimilation and partial melting), phase equilibria and application to magmas, petrology of the mantle, and igneous rocks of specific tectonic settings (oceanic lithosphere, continental margins, continental lithosphere). Laboratories include geochemical calculations and examination of rock samples and thin sections.

CR: the former EASC 3053 in combination with the former 2503
 LH: 3
 PR: EASC 2031 and 2502

3055 Thermodynamics and Metamorphic Petrology (W) is an integrated course dealing with the geochemistry, origin and classification of metamorphic rocks. Topics include thermodynamic background and kinetics (transfer of mass and energy in geochemical systems of the Earth's interior, thermodynamic laws, phase equilibria, solid-solid reactions, reaction rates); metamorphic facies, field gradients, isograds and reactions; mineral assemblages and textures of common metamorphic rocks. Laboratories include thermodynamic and phase diagram problems, hand specimen and thin section studies.

CR: the former EASC 3053 in combination with the former 2503
 LH: 3
 PR: EASC 2031 and 2502, Mathematics 1001

3170 Exploration Geophysics I (W) examines fundamentals of seismic energy transmission in the Earth; basic methods in seismic exploration - data acquisition, processing and interpretation for refraction and reflection surveys; fundamentals of gravity and magnetic data acquisition, processing and interpretation; introduction to gravity and magnetic modelling.

CO: EASC 2905
 LH: 3
 PR: EASC 2905, Physics 1051 (or 1021 or 1054); Mathematics 1001; Mathematics 2000 or Statistics 2510 or Statistics 2550

3172 Exploration Geophysics II (F) is an introduction to electrical and electromagnetic methods in geophysics applied in mineral exploration, petroleum well logging and environmental studies, and examples of application of various techniques; use of data processing and modelling techniques in interpretation; introduction to radiometric methods used in mineral and petroleum exploration.

CO: EASC 2905
 LH: 3
 PR: EASC 2905, Physics 1051 (or 1021 or 1054); Mathematics 1001; Mathematics 2000 or Statistics 2510 or Statistics 2550

3179 Geophysical Analysis covers Vector Calculus; curvilinear coordinates; line, surface and volume integration; integral theorems; the derivation and application of geophysically important partial differential equations - Laplace's equation to the Earth's gravity and magnetic fields, the diffusion equation to the Earth's heat flow, and the wave equation to electromagnetic and seismological phenomena; geophysical uses of Legendre functions; Fourier analysis in geophysics. The laboratory component will familiarize the student with practical applications of the tools discussed.

LH: 3
 PR: Mathematics 2000, Physics 2055 and 2820

3210 Economic Mineral Deposits (W) is an introduction to the study of mineral deposits and definition of the basic physio-chemical parameters of ore deposit formation. The course involves a systematic review of genetic models for the principal types of metallic mineral deposits, and links these models to a common theme of the relationship between lithosphere-hydrosphere-biosphere interactions and metallogeny. Laboratory exercises involve examination of representative suites of samples from different types of metallic mineral deposits and provide an introduction to the use of reflected light microscopy.

LH: 3
 PR: either EASC 2031, 2502 and 2905; or EASC 2031 and Chemistry 3211; or Engineering 3610 and the former Engineering 3205

3420 Global Tectonic Processes examines how horizontal and vertical motions of the Earth's surface are influenced by heat and mass transfer within its interior. Surface motions are described qualitatively and quantitatively within the framework of plate tectonics, and used to identify major controls on the igneous, metamorphic and sedimentary rock records. Laboratory exercises emphasize geologic and geophysical applications of the material developed in lectures.

CR: the former EASC 2070, 2161, 2400 and 4901
 LH: 3
 PR: EASC 2031, 2401, 2502, 2702, Mathematics 1000 and 1001, Physics 1021 or 1051

3600 Environmental Geology (F) examines the application of basic concepts and fundamental principles of geochemistry in evaluating natural and human-induced change through time on the interaction of the Earth's lithosphere, hydrosphere, atmosphere and biosphere; includes the effects of contaminants on global change. Laboratory time will be used for short field-based studies and for exercises examining the effects of contaminants on global change.

LH: 3
 PR: either EASC 2502; or EASC 1000, Chemistry 2210 and Chemistry 2300

3611 Engineering Geology (W) - inactive course.

3702 Lithification, Diagenesis and Sedimentary Rock Properties provides a conceptual and practical overview of the transformation of sediments into sedimentary rocks through compaction, cementation and mineral reactions, and the resultant modifications of rock composition, rock fabrics, and associated porous media characteristics (e.g. porosity). Both

descriptive and analytical methods are integrated in laboratories that include carbonate and sandstone petrology (hand samples and thin sections), geological analysis of selected wireline logs, and the analysis of fluid reservoir properties.

LH: 3
PR: EASC 2031, 2702 and 2905

3705 Field Course in Sedimentology, Reservoir Architecture and Sequence Stratigraphy is a ten day field and lecture based course normally offered in the first two weeks of the Spring semester that aims to teach students to use sedimentological and palaeontological data for palaeoenvironmental analysis. The course will demonstrate the use of sedimentary facies models and facies architectural studies in reservoir geology, particularly when coupled with the principles of sequence stratigraphy. Students will be taught to create sedimentary logs and facies architectural panels.

CO: EASC 2702, 3811, 3905
CR: the former EASC 4700 or the former Geology 4700
OR: field based course
PR: EASC 2702, 3811, 3905

3811 Paleontology (W) outlines the major changes in life forms from Archaean times through the Phanerozoic to the present day, including details of invertebrate and vertebrate faunas and major floral groups; mechanisms and effects of mega- and micro-evolution in the fossil record; biology and classification of organisms and summaries of their geological significance in biostratigraphy, paleoecology and rock-building; relationships between major cycles of evolution and extinction to global processes.

CR: Biology 3811 or either the former EASC 3801 or the former Biology 3800
LH: 3
PR: either Biology 2120 (or Biology 1001 and 1002) and EASC 1002; or Biology 2122 and 2210

3905 Field Methods in Structural Geology and Stratigraphy (W) is based on approximately 5 days of geological mapping in Precambrian rocks near St. John's. Emphasis is placed on application of techniques of structural analysis. Evenings will be dedicated to data analysis and preparation of structural maps and sections. Students are advised to complete this course immediately following EASC 2401. This course will be offered during a special session immediately following the examination period in a given semester.

AR: attendance for all of the field school days is required. Failure to attend may result in a failing grade or withdrawal from the course.
CH: 1
OR: field based course
PR: EASC 2401 and 2905 and an application to the Head of the Department

8.5.4 Fourth Year

4053 Petrogenesis of Igneous Rocks investigates the origin of typical and important groups of igneous rocks based on experimental petrology, phase equilibria and application of geochemical tools. It further investigates the classification of igneous rocks, including the study of volcanoclastic rocks and aspects of physical volcanology. The laboratory component of the course emphasizes practical aspects of igneous petrology including geochemical characterization and use of hand-sample and field criteria.

LH: 3
PR: EASC 3054 and 3420

4054 Metamorphic Petrology examines relationships between metamorphism and tectonics, representation and interpretation of metamorphic mineral assemblages using compositional phase diagrams and petrogenetic grids; equilibrium thermodynamics and thermobarometry; determination of P-T-t paths. Laboratories include use of the electron microprobe to collect data for use in calculations of the conditions of formation of metamorphic assemblages, and various types of software applicable to metamorphic petrology.

LH: 3
PR: EASC 2401, 3055 and 3420

4105 High Resolution Geophysics is a senior-level-field-based course in high resolution geophysics with an emphasis on environmental and mineral exploration applications. Techniques used may include ground probing radar, refraction seismology, magnetic surveying, gravimetry, electrical and electro-magnetic methods. This course has a laboratory component in which students conduct a series of surveys over a specific site and process and interpret the collected data.

LH: 3
PR: EASC 3170, 3172 and 3179

4171 Exploration Geophysics III examines techniques involved in the acquisition, processing and interpretation of multichannel seismic reflection data. Introduction to elastic properties of rocks. Introduction to advanced processing and interpretation techniques as applied to qualitative and quantitative evaluation of hydrocarbon reservoir characteristics. This course has a laboratory component designed to provide hands-on experience with

data processing and interpretation.

LH: 3
PR: EASC 3170 and 4179

4173 Exploration Geophysics IV examines advanced techniques in electrical and electromagnetic exploration methods including advanced IP, airborne EM surveys, EM and IP modelling, and inversion techniques; advanced methods in gravity and magnetic field exploration techniques including 2 ½-D and 3-D modelling and inversion, map processing techniques, and excess mass determination.

LH: 3
PR: EASC 3170 or 3172; and EASC 4179

4179 Digital Signal Processing is an introduction to the theory and basic computational techniques of digital signal processing in geophysics. Topics covered include: sampling, Fourier transformation, design and application of digital filters, deconvolution, spectral analysis, two dimensional signal processing, with emphasis on geophysical applications.

LH: 3
PR: EASC 3170 and 3179

4211 Economic Geology provides a detailed look at the methodologies and techniques used in the study of mineral deposits and their applications in case histories. Laboratory exercises involve solving problem sets using the various types of data from selected case studies.

LH: 3
PR: EASC 3054 or 3055; and EASC 3210

4302 Advanced Marine Geology examines the geology and geophysics of ocean basins; discussion of methods of oceanic exploration, the history and development of ocean basins, interrelationships between ocean water, marine organisms, sedimentary and igneous processes.

PR: EASC 1001 or 1002 and completion of any 15 credit hours in core courses at the 3000 and/or 4000 levels (see General Note 5) in Biology, Biochemistry, Chemistry, Earth Sciences, Physics, or Geography.

4310 Earth Science Concepts, Materials and Techniques for Archaeologists - inactive course.

4400 Advanced Techniques in Structural Geology examines modern techniques of structural analysis applied to fold and fault systems including progressive deformation and strain analysis, fold mechanisms, fold morphology and classification, fold sections and profiles, superposed folding, fault geometry and morphology, brittle and ductile shear zones, and construction of balanced cross-sections.

LH: 3
PR: EASC 2401 and 3905 and a minimum of 6 credit hours in Earth Sciences at the 3000 level

4420 Tectonics and Crustal Evolution is a lecture and seminar course covering secular change and tectonic evolution in Earth history from the Archean to Mesozoic, featuring examples from the North American geological record. The course will draw on and link concepts from a variety of Earth Science disciplines and provide an overview of the geological evolution of North America in a tectonic context.

CR: the former EASC 4901
OR: seminar
PR: EASC 3420

4502 Advanced Geochemistry focuses primarily on the application of trace, radiogenic and stable isotope geochemistry to constrain the origin, mass balance and chemical fluxes within the Earth's lithosphere and asthenosphere. The course permits students to complete assignments in aspects of geochemistry that reflect their career interests.

LH: 3
PR: EASC 2031 and 2502 and a minimum of 6 credit hours in Earth Sciences at the 3000 level

4503 Mineral Exploration Geochemistry is an examination of the application of geochemistry to mineral exploration, covering: the lithochemical characteristics of ore deposits, their host rocks, and element dispersion from them; the principles of sampling and analysis in exploration geochemistry; approaches to the statistical analysis, graphical presentation, and interpretation of survey results; and the design of effective geochemical surveys. Particular emphasis will be placed on case studies relevant to exploration in Newfoundland and Labrador. Laboratory/seminar sessions involve working with exemplary data sets, using computer-based software for statistical analysis and software for searching large databases and viewing the spatial relationships of different types of map data relevant to the mineral exploration industry.

LH: 3
OR: seminar
PR: EASC 3210

4601 Petroleum Origin and Occurrence - inactive course.

4602 Sedimentary Basins and Hydrocarbon Exploration provides a review of sedimentary basin types and associated petroleum systems including concepts applicable to petroleum generation, migration and

accumulation. Regional-scale stratigraphic and structural concepts/models are presented as a framework for hydrocarbon fluid flow and entrapment. Laboratories include description and analysis of data typical of basin- and regional-scale exploration and appraisal of hydrocarbon resources using a variety of integrated, interdisciplinary techniques (geological, geophysical and geochemical).

CR: EASC 4601
LH: 3
PR: EASC 2401, 2702, 3170 and 3420

4603 Reservoir Characterization provides a review of the sedimentary, stratigraphic and structural setting of hydrocarbon reservoirs and the geological controls on reservoir quality. Reservoir types and methods of study are presented to evaluate their key properties for the development and production of hydrocarbons. Laboratories include detailed subsurface correlation and mapping, log analysis, interpretation of reservoir data (e.g. capillary pressure, porosity, permeability and production data).

CR: EASC 4601
LH: 3
PR: EASC 2401, 2702, 3170 and 3702

4605 Environmental Geoscience Field School is a field-based course normally offered during a special session immediately before the Fall semester followed by laboratory analytical work during the Fall semester. The aim of this course is to investigate anthropogenic impacts on the environment using geochemical, hydrological, and microbial methods. Emphasis is placed on site investigation, sample collection and preparation techniques, instrumental analysis, and data analyses.

AR: attendance required
OR: field-based course
PR: EASC 2502, EASC 3600, Mathematics 1001, and one of Mathematics 2000, Statistics 2510, Statistics 2550

4610 Hydrogeology examines geology and its relationship to groundwater occurrence and exploitation: basic theory, groundwater flow systems, surface-groundwater interactions and changes in water quality, field and laboratory techniques, hydrogeological aspects of waste disposal and resource development.

LH: 3
PR: EASC 2502 or permission of instructor

4720 Carbonate Depositional Environments and Diagenesis examines carbonate environments and their facies models with examples from modern and ancient settings. Diagenetic environments and diagenetic controls on rock properties, particularly porosity, are examined, as well as their application in the reconstruction of the diagenetic history of a sedimentary basin and in the characterization of hydrocarbon reservoirs. The application of chemostratigraphy to correlation is discussed. The laboratory exercises apply hand specimen, thin section and geochemical methods to investigate carbonates from different depositional settings and a wide spectrum of diagenetic environments covered in lectures

CO: EASC 3811
LH: 3
PR: EASC 2031, 2702, and 3811

4800 Advanced Paleontology (same as Biology 4800) is a field, lecture, laboratory and seminar course dealing with selected topics in general and applied paleontology. Topics include measuring evolution and extinction, population paleontology, functional morphology, paleoecology, statistical methods for paleontological studies, and applications in petroleum, mining, and environmental studies.

CR: Biology 4800
LH: 3
PR: EASC 3811, and Statistics 2510 or Statistics 2550 or Mathematics 2000

4902 Early Evolution of the Earth (F) - inactive course.

4903 Global Change (W) is a lecture and seminar course that studies the interaction of the atmosphere, biosphere and lithosphere; topics covered include the evolution of the biosphere, fluid circulation, global geochemical budget, global environmental changes, and chemical evolution of the

8.6 Economics

For course descriptions, see **Faculty of Arts** section of the Calendar.

8.7 Geography

For course descriptions, see **Faculty of Arts** section of the Calendar.

8.8 Mathematics and Statistics

In the descriptions of the courses which follow, the symbol (F) represents the Fall and (W) represents Winter. These labels are intended to indicate the semester when the course is generally offered. Unlabelled courses are offered as demand or programs

hydrosphere.

OR: seminar
PR: EASC 1001 or 1002, and Biology 2120 (or Biology 1001 and 1002); and completion of any 15 credit hours in core courses at the 3000 and/or 4000 levels (see General Note 5) in Biology, Biochemistry, Chemistry, Earth Sciences, or Physics; or permission of the instructor.

4905 Field Course in Geological Mapping and Regional Tectonics (F) is a two-week field school designed to allow application of techniques introduced in the third year, and to provide an introduction to the Appalachian geology of western and central Newfoundland. Reports must be submitted for grading during the fall semester.

OR: field based course
PR: EASC 2401, 3055, 3420, and 3905; and permission of the Head of the Department

4912 Planetary Geology is a classroom- and laboratory-based course that provides students with a basic knowledge of the geology of the Moon, Mars, asteroids and the moons of the satellites of the outer solar system; the petrology and geochemistry of meteorites and their importance to understanding the origin of the planets; impact cratering processes and rock products including those on Earth; and instrumentation for planetary exploration. The course combines lectures and laboratory exercises that examine data sets from planetary missions and specimens of extraterrestrial materials. Students learn how geological processes that have shaped Earth also have operated on other planets, moons and asteroids in our solar system.

PR: EASC 2031, 2702, 2905, and 3420

4910-4920 (Excluding 4912) Special Topics in Earth Sciences are lecture and seminar courses given for undergraduates in their fourth or fifth year who wish to gain more specialized knowledge in a particular field of Earth Sciences than is possible through the standard course offerings. The Department will consider suggestions by students for Special Topics courses, but it must be borne in mind that such a course should normally be approved at least three months before the start of the semester in which it is to be taken.

PR: permission of the Head of Department

4950 Technical Report on Geoscience Employment requires the preparation of a publication-quality technical report, about 50 pages in length, based on a study undertaken during geoscience employment. The topic and scope of the study must be approved by the Head of Department prior to its commencement. Students will present a seminar or seminars on results of the project, and will be closely advised on proper organization and writing of scientific reports. Some directed reading will be required.

PR: completion of 9 credit hours in Earth Sciences at 3000 level, and permission of the Head of Department

UL: can only be used as an "additional course" under point 3. of the regulations for General degrees, and under point 4. of the regulations for Honours degrees. The same study cannot be used as the basis of a dissertation completed for course EASC 499A/B.

499A and 499B Dissertation is an independent study of an approved problem in the Earth Sciences. The subject of study will be decided in consultation with Faculty Advisors and must be approved in advance by the Head of Department. The first semester will normally involve directed reading, supervised field and/or laboratory work, and preparation of a dissertation outline and draft of a first chapter of the thesis. The second semester will be devoted to data synthesis and interpretation, to a seminar presenting the thesis results, and to preparation of a formal written report accompanied by appropriate illustrations, to be submitted for grading one week before the end of classes.

CH: 6
PR: admission to the Honours program

UL: The dissertation cannot be based on the same study used to obtain credit for EASC 4950. May be used as Science credits by students not in the Honours program with permission of the Head of the Department.

8.8.1 Foundation Courses

102F Mathematics Skills Program is a non-credit course intended for students who either have a weak background in mathematics or are returning to the subject after some years. The course enables students to master mathematical operations such as those involving whole numbers, fractions, decimals, percents, integers, exponents, linear equations and algebraic expressions.

CH: 0

102N Mathematics Skills Program for the B.N. (Collaborative) Program is a non-credit course intended for students of the B.N. (Collaborative) Program who have a weak background in mathematics and/or have not done mathematics in some years. The course enables students to master mathematical operations such as those involving whole numbers, fractions, decimals, percents, units of measurement, ratios and proportions.

CH: 0

103F Mathematics Skills Program is non-credit course intended for students who either have a weak background in mathematics or are returning to the subject after some years. The course enables students to master mathematical operations such as those involving rational expressions and equations, units of measurement, ratios and proportions, formulas, graphs of linear equations, systems of linear equations, basic geometry and trigonometry and number systems.

CH: 0

PR: Mathematics 102F

104F Mathematics Skills Program is a non-credit course intended for those students who either have a weak background in mathematics or are returning to the subject after some years. The course enables students to master mathematical operations such as those involving number systems, algebraic and rational expressions, linear and rational equations, formulas, exponents, radicals, quadratic equations and logarithms.

CH: 0

PR: Mathematics 103F

8.8.2 Accelerated M103F/M1051 Mathematics Skills Program/Finite Mathematics II (W)

103F Mathematics Skills Program/Finite Mathematics II is a non-credit course enabling students to master mathematics operations such as those involving algebraic and rational expressions, formulas, graphs, systems of linear equations, basic trigonometry and number systems. Mathematics 1051 is a credit course with topics including elementary matrices, linear programming, elementary number theory, mathematical systems and geometry.

CH: 0

CO: Mathematics 102F and a recommendation by an MLC instructor resulting in approval by the MLC Director

LH: three 50 minute classes and two 75 minute classes per week

PR: Mathematics 102F and a recommendation by an MLC instructor resulting in approval by the MLC Director

8.8.3 Mathematics Courses

Mathematics courses are designated by MATH. Where the 4 digit course number is the same, students can receive credit for only one course with subject names MATH, AMAT, PMAT, STAT.

1000 Calculus I (F) & (W) is an introduction to differential Calculus including logarithmic, exponential and trigonometric functions.

CR: the former 1081

LC: 4

PR: MATH 1090 or a combination of placement test and high school Mathematics scores acceptable to the Department

UL: at most 9 credit hours in Mathematics will be given for courses completed from the following list subject to normal credit restrictions: Mathematics 1000, 1031, 1050, 1051, the former 1080, the former 1081, 1090, the former 1150 and 1151

1001 Calculus II (F) & (W) is an introduction to integral Calculus with applications.

CR: the former Engineering 1411 or the former Engineering 2413

LH: one and one-half hour problem lab

PR: MATH 1000 or the former 1081

1031 Mathematical Problem Solving - inactive course.

1050 Finite Mathematics I (F) & (W) covers topics which include sets, logic, permutations, combinations and elementary probability.

CR: the former MATH 1150

LC: 4

PR: a combination of placement test and high school mathematics scores acceptable to the department or MATH 103F

UL: At most 9 credit hours in Mathematics will be given for courses

completed from the following list subject to normal credit restrictions: Mathematics 1000, 1031, 1050, 1051, the former 1080, the former 1081, 1090, the former 1150 and 1151. With the exception of those already admitted at the time of registration in this course to a Bachelor of Education program that requires this course, students who already have obtained credit for 6 or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course nor can they receive credit for it.

1051 Finite Mathematics II (F) & (W) covers topics which include elementary matrices, linear programming, elementary number theory, mathematical systems, and geometry.

CR: the former MATH 1151

LC: 4

PR: a combination of placement test and high school mathematics scores acceptable to the department or MATH 103F

UL: At most 9 credit hours in Mathematics will be given for courses completed from the following list subject to normal credit restrictions: Mathematics 1000, 1031, 1050, 1051, the former 1080, the former 1081, 1090, the former 1150 and 1151. With the exception of those already admitted at the time of registration in this course to a Bachelor of Education program that requires this course, students who already have obtained credit for 6 or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course nor can they receive credit for it.

1090 Algebra and Trigonometry (F) & (W) provides students with the essential prerequisite elements for the study of an introductory course in calculus. Topics include algebra, functions and their graphs, exponential and logarithmic functions, trigonometry, polynomials, and rational functions.

CR: if previously completed or currently registered for MATH 1000, 1001, the former 1080, or the former 1081

LC: 4

PR: a combination of placement test and high school Mathematics scores acceptable to the Department or MATH 104F

UL: at most 9 credit hours in Mathematics will be given for courses completed from the following list subject to normal credit restrictions: Mathematics 1000, 1031, 1050, 1051, the former 1080, the former 1081, 1090, the former 1150 and 1151

2000 Calculus III (F) & (W) is a study of the differential calculus of functions of two variables, an introduction to convergence of infinite sequences and series.

CR: the former Engineering 1411, Engineering 1412, Engineering 2412, or Engineering 2413

LH: one and one-half hour problem lab

PR: MATH 1001

2050 Linear Algebra I (F) & (W) includes the topics: Euclidean n -space, vector operations in 2- and 3-space, complex numbers, linear transformations on n -space, matrices, determinants, and systems of linear equations.

CR: the former Engineering 2402

PR: A combination of placement test and high school Mathematics scores acceptable to the Department or 3 credit hours in first year Mathematics courses

2051 Linear Algebra II (F) & (W) includes the topics: real and complex vector spaces, basis, dimension, change of basis, eigenvectors, inner products, and diagonalization of Hermitian matrices.

PR: MATH 1000 and 2050

2075 Introduction to the History of Mathematics - inactive course.

2090 Mathematics of Finance covers the topics: simple and compound interest and discount, forces of interest and discount, equations of value, annuities and perpetuities, amortization schedules and sinking funds, bonds and other securities, contingent payments.

PR: MATH 1001

2091 Introduction to Actuarial Mathematics - inactive course.

2130 Technical Writing in Mathematics (W) is a project oriented course combining mathematical investigation and technical writing. By using computer programming, graphical and typesetting tools, students will explore mathematical concepts and will produce technical reports of professional quality. The latter will combine elements of writing and graphics to convey technical ideas in a clear and concise manner.

PR: admission to Applied or Pure Mathematics major and MATH 1001 and (Computer Science 1510 or 1710 or 2710 or 2602; or permission of the Head of Department)

UL: qualifies as a Research/Writing course in the Faculty of Arts

2320 Discrete Mathematics (F) & (W) covers basic concepts of mathematical reasoning, sets and set operations, functions, relations including equivalence relations and partial orders as illustrated through the notions of congruence and divisibility of integers, mathematical induction, principles of counting, permutations, combinations and the Binomial Theorem.

CR: the former Computer Science 2740 or the former Engineering 3422 or

Engineering 4424
PR: MATH 1001 or 2050

3000 Real Analysis I (F) & (W) covers proof techniques, structure of the real numbers, sequences, limits, continuity, uniform continuity, differentiation.

CR: the former MATH 2001
LH: 1
PR: MATH 2000

3001 Real Analysis II (F) & (W) examines infinite series of constants, sequences and series of functions, uniform convergence and its consequences, power series, Taylor series, Weierstrass Approximation Theorem.

CR: the former MATH 3201
LH: 1
PR: MATH 3000

3100 Introduction to Dynamical Systems (W) examines flows, stability, phase plane analysis, limit cycles, bifurcations, chaos, attractors, maps, fractals. Applications throughout.

CR: the former AMAT 3190
PR: MATH 3260

3111 Applied Complex Analysis examines mapping by elementary functions, conformal mapping, applications of conformal mapping, Schwarz-Christoffel transformation, Poisson integral formula, poles and zeros, Laplace transforms and stability of systems, analytic continuation.

PR: MATH 3210

3132 Numerical Analysis I (W) includes a discussion of round-off error, the solution of linear systems, iterative methods for nonlinear equations, interpolation and polynomial approximation, least squares approximation, fast Fourier transform, numerical differentiation and integration.

CR: Computer Science 3731
PR: MATH 2000, MATH 2050, and a computing course (Computer Science 1510 is recommended).

3161 Ordinary Differential Equations II (F) examines power series solutions, method of Frobenius, Bessel functions, Legendre polynomials and others from classical Physics, systems of linear first order equations, fundamental matrix solution, numerical methods for initial value problems, existence and uniqueness of solutions.

PR: MATH 3202 and 3260

3202 Vector Calculus (F) & (W) deals with functions of several variables, Lagrange multipliers, vector valued functions, directional derivatives, gradient, divergence, curl, transformations, Jacobians, inverse and implicit function theorems, multiple integration including change of variables using polar, cylindrical and spherical co-ordinates, Green's theorem, Stokes' theorem, divergence theorem, line integrals, arc length.

CR: Physics 3810
PR: MATH 2000 and 2050

3210 Introduction to Complex Analysis (F) examines complex numbers, analytic functions of a complex variable, differentiation of complex functions and the Cauchy-Riemann equations, complex integration, Cauchy's theorem, Taylor and Laurent series, residue theory and applications.

PR: MATH 3000

3240 Applied Graph Theory (F) examines algorithms and complexity, definitions and basic properties of graphs, Eulerian and Hamiltonian chains, shortest path problems, graph colouring, planarity, trees, network flows, with emphasis on applications including scheduling problems, tournaments, and facilities design.

CR: the former Computer Science 2741
PR: MATH 2320

3260 Ordinary Differential Equations I (F) & (W) examines direction fields, equations of first order and first degree, higher order linear equations, variation of parameters, methods of undetermined coefficients, Laplace transforms, systems of differential equations. Applications include vibratory motion, satellite and rocket motion, pursuit problems, population models and chemical kinetics.

CR: the former Engineering 3411
PR: MATH 2000

3300 Set Theory is an introduction to Mathematical Logic, functions, equivalence relations, equipotence of sets, finite and infinite sets, countable and uncountable sets, Cantor's Theorem, Schroeder-Bernstein Theorem, ordered sets, introduction to cardinal and ordinal numbers, logical paradoxes, the axiom of choice.

PR: MATH 2320

3303 Introductory Geometric Topology covers graphs and the four colour problem, orientable and non-orientable surfaces, triangulation, Euler characteristic, classification and colouring of compact surfaces, basic point-set topology, the fundamental group, including the fundamental groups of surfaces, knots, and the Wirtinger presentation of the knot group.

PR: MATH 2320

3320 Abstract Algebra (F) is an introduction to groups and group homomorphisms including cyclic groups, cosets, Lagrange's theorem, normal subgroups and quotient groups, introduction to rings and ring homomorphisms including ideals, prime and maximal ideals, quotient rings, integral domains and fields.

PR: MATH 2320

3321 Applied Algebra - inactive course.

3330 Euclidean Geometry (F) is classical Euclidean geometry of the triangle and circle, the inversion transformation, including the theorem of Feuerbach. Elliptic and hyperbolic geometries.

PR: MATH 2051 or 2320

3331 Projective Geometry includes course topics: projective space, the principle of duality, mappings in projective space, conics and quadrics.

PR: MATH 2051 or 2320

3340 Introductory Combinatorics (W) includes topics: distributions, the binomial and multinomial theorems, Stirling numbers, recurrence relations, generating functions and the inclusion-exclusion principle. Emphasis will be on applications.

PR: MATH 2320

3370 Introductory Number Theory (F) examines perfect numbers and primes, divisibility, Euclidean algorithm, greatest common divisors, primes and the unique factorization theorem, congruences, cryptography (secret systems), Euler-Fermat theorems, power residues, primitive roots, arithmetic functions, Diophantine equations, topics above in the setting of the Gaussian integers.

PR: MATH 2320

4000 Lebesgue Integration (F) includes a review of the Riemann integral, functions of bounded variation, null sets and Lebesgue measure, the Cantor set, measurable sets and functions, the Lebesgue integral in R^1 and R^2 , Fatou's lemma, Monotone and Dominated Convergence Theorems, Fubini's Theorem, an introduction to Lebesgue-Stieltjes measure and integration.

CR: the former Pure Mathematics 4400
PR: MATH 3001

4001 Functional Analysis (W) includes metric and normed spaces, completeness, examples of Banach spaces and complete metric spaces, bounded linear operators and their spectra, bounded linear functionals and conjugate spaces, the fundamental theorems for Banach spaces including the Hahn-Banach Theorem, topology including weak and weak* topologies, introduction to Hilbert spaces.

CR: the former Pure Mathematics 4302
PR: MATH 3001

4100 Applied Functional Analysis - inactive course.

4102 Stochastic Methods in Applied Mathematics - inactive course.

4130 Introduction to General Relativity (same as Physics 4220) studies both the mathematical structure and physical content of Einstein's theory of gravity. Topics include the geometric formulation of special relativity, curved spacetimes, metrics, geodesics, causal structure, gravity as spacetime curvature, the weak-field limit, geometry outside a spherical star, Schwarzschild and Kerr black holes, Robertson-Walker cosmologies, gravitational waves, an introduction to tensor calculus, Einstein's equations, and the stress-energy tensor.

CO: MATH 4230
CR: Physics 4220
PR: MATH 3202 and one of Physics 3220 or MATH 4230 or permission of the Head of Department.

4131 Numerical Linear Algebra - inactive course.

4132 Introduction to Optimization - inactive course.

4133 Numerical Optimization - inactive course.

4140 Introduction to Mathematical Control Theory - inactive course.

4160 Partial Differential Equations I (F) covers two point boundary value problems, Fourier series, Sturm-Liouville theory, canonical forms, classification and solution of linear second order partial differential equations in two independent variables, separation of variable, integral transform methods.

PR: MATH 3202 and MATH 3260

4161 Integral Equations - inactive course.

4162 Numerical Methods for Differential Equations covers numerical solution of initial value problems for ordinary differential equations by single and multi-step methods, Runge-Kutta, and predictor-corrector; numerical solution of boundary value problems for ordinary differential equations by shooting methods, finite differences and spectral methods; numerical solution of partial differential equations by the method of lines, finite differences, finite volumes and finite elements.

PR: MATH 3132 and 4160

4170 Partial Differential Equations II covers first order equations, Cauchy problems, Cauchy-Kowalewska theorem, second order equations, canonical forms, wave equations in higher dimensions, method of spherical means, Duhamel's principle, potential equation, Dirichlet and Neuman problem, Green's function and fundamental solution, potential theory, heat equation, Riemann's method of integration, method of plane and Riemann waves for systems of PDEs of the first order.
PR: MATH 4160

4180 Introduction to Fluid Dynamics (same as Physics 4205) covers basic observations, mass conservation, vorticity, stress, hydrostatics, rate of strain, momentum conservation (Navier-Stokes equation), simple viscous and inviscid flows, Reynolds number, boundary layers, Bernoulli's and Kelvin's theorems, potential flows, water waves, thermodynamics.
CR: Physics 4205
PR: Physics 3220 and either MATH 4160 or the former Physics 3821

4190 Mathematical Modelling (W) is intended to develop students' skills in mathematical modelling and competence in oral and written presentations. Case studies in modelling will be analysed. Students will develop a mathematical model and present it in both oral and report form.
PR: MATH 3100, 3161, 4160, and a technical writing course offered by a Science department (MATH 2130 is recommended).

419A and 419B Applied Mathematics Honours Project is a two-semester course that requires the student, with supervision by a member of the Department, to prepare a dissertation in an area of Applied Mathematics. In addition to a written project, a one hour presentation will be given by the student at the end of the second semester.
CH: 6
CR: the former AMAT 4199
PR: registration in an Honours or Joint Honours program in Applied Mathematics.

4230 Differential Geometry covers theory of curves, Frenet relations, curvature and torsion, singular points of curves, first and second quadratic forms, classification of points on a surface, Gaussian curvature, Gauss-Weingarten theorem, Christoffel's symbols, theorema Egregium, Gauss-Cadazzi-Mainardi theorem, internal geometry of surfaces, isometric and conformal mappings, geodesic curvature and torsion, parallel displacement, Gauss-Bonnet theorem.
PR: MATH 3202

4240 Differential and Integral Calculus on Manifolds - inactive course.

4280-4290 Special Topics in Pure and Applied Mathematics will have the topics to be studied announced by the Department. Consult the Department for a list of titles and information regarding availability.
PR: permission of the Head of the Department

4300 General Topology examines topological structure on a set, neighbourhood, open and closed sets, continuity, sub-spaces and quotient spaces, connectedness, relation between topologies, base and sub-base, product spaces, applications to Euclidean spaces. Hausdorff, regular, normal and compact spaces, metric spaces, compacta and continua, metrizability.
PR: MATH 3300 or both MATH 3000 and 3303

4301 Algebraic Topology - inactive course.

4310 Complex Function Theory examines topology of \mathbb{C} , analytic functions, Cauchy's theorem with proof, Cauchy integral formula, singularities, argument principle, Rouché's theorem, maximum modulus principle, Schwarz's lemma, harmonic functions, Poisson integral formula, analytic continuation, entire functions, gamma function, Riemann-Zeta function, conformal mapping.
PR: MATH 3210

4320 Ring Theory examines factorization in integral domains, structure of finitely generated modules over a principal ideal domain with application to Abelian groups, nilpotent ideals and idempotents, chain conditions, the Wedderburn-Artin theorem.
PR: MATH 3320

4321 Group Theory examines permutation groups, Sylow theorems, normal series, solvable groups, solvability of polynomials by radicals, introduction to group representations.
PR: MATH 3320

4331 Galois Theory - inactive course.

4340 Combinatorial Analysis continues most of the topics started in 3340 with further work on distributions, recurrence relations and generating functions. Generating functions are used to solve recurrence relations in two variables. Also included is a study of Polya's theorem with applications.
PR: MATH 2000 and 3340

4341 Combinatorial Designs includes the study of finite fields, Latin squares, finite projective planes and balanced incomplete block designs.
PR: MATH 3320 or 3340

4370 Number Theory is continued fractions, an introduction to Diophantine approximations, selected Diophantine equations, the Dirichlet product of arithmetic functions, the quadratic reciprocity law, and factorization in quadratic domains.
PR: MATH 3370

4375 History of Mathematics - inactive course.

4399 Pure Mathematics Dissertation requires the student, with supervision by a member of the department, to prepare a dissertation in an area of Pure Mathematics. Although original research by the student will not normally be expected, the student must show an ability and interest to learn and organize material independently. A one hour presentation at the end of the semester will be given by the student.
PR: registration in an Honours or Joint Honours program in Pure Mathematics

8.8.4 Statistics Courses

Statistics courses are designated by STAT. Where the 4 digit course number is the same, students can receive credit for only one course with subject names MATH, AMAT, PMAT, STAT.

1510 Statistical Thinking and Concepts (F) & (W) examines the basic statistical issues encountered in everyday life, such as data collection (both primary and secondary), ethical issues, planning and conducting statistically-designed experiments, understanding the measurement process, data summarization, measures of central tendency and dispersion, basic concepts of probability, understanding sampling distributions, the central limit theorem based on simulations (without proof), linear regression, concepts of confidence intervals and testing of hypotheses. Statistical software will be used to demonstrate each technique.
CR: cannot receive credit for STAT 1510 if completed with, or subsequent to, STAT 2500, 2510 or 2550
LH: one 90 minute lab per week
PR: Mathematics 1090 or a combination of placement test and high school Mathematics scores acceptable to the Department.

2500 Statistics for Business and Arts Students (F) & (W) covers descriptive statistics (including histograms, stem-and-leaf plots and box plots), elementary probability, discrete random variables, the binomial distribution, the normal distribution, sampling distribution, estimation and hypothesis testing including both one and two sample tests, paired comparisons, chi-square test, correlation and regression. Related applications.
CR: STAT 2510, 2550, Psychology 2910, 2925 and the former 2900.
LH: one 90 minute lab per week. Statistical computer package will be used in the laboratory, but no prior computing experience is assumed.
PR: Mathematics 1000 or 6 credit hours in first year courses in Mathematics or registration in at least semester three of a Bachelor of Nursing program or permission of the Head of Department.

2501 Further Statistics for Business and Arts Students (F) & (W) covers power calculation and sample size determination, analysis of variance, multiple regression, nonparametric statistics, index numbers, time series analysis, introduction to sampling techniques.
CR: STAT 2560, the former 2511, Psychology 2911, 2950, and the former 2901
LH: one 90 minute lab per week. Statistical computer package will be used in the laboratory.
PR: STAT 2500 or 2510

2510 Statistics for Physical Science Students (F) & (W) examines elements of probability, conditional probability, Bayes' Theorem, discrete random variables, cumulative distribution function, introduction to continuous random variables, mathematical expectation, estimation of mean, proportion and variance, hypothesis testing for one-sample case. This course is normally offered twice a year, including the Fall.
CR: STAT 2500, 2550, Psychology 2910, 2925, the former 2900, the former Engineering 3423 and 4421
LH: one 90 minute lab per week
PR: Mathematics 1000 or the former 1081

2550 Statistics for Life Science Students (F) & (W) & (S) is an introduction to basic statistics methods with an emphasis on applications to life sciences and, in particular, to biology. Material includes descriptive statistics, elementary probability, binomial distribution, normal distribution, sampling distribution, estimation and hypothesis testing (both one and two sample cases), chi-square test, one way analysis of variance, correlation and simple linear regression.
CR: STAT 2500, 2510, Psychology 2910, 2925, and the former 2900
LH: one 90 minute lab per week. Statistical computer package will be used in the laboratory, but no prior computing experience is assumed.
PR: Mathematics 1000 or the former 1081

2560 Further Statistics for Science Students (W) (formerly STAT 2511) covers estimation and hypothesis testing in the two-sample and paired sample cases, one way and two way analysis of variance, simple and multiple linear regression, chi-square tests, non-parametric tests including

sign test, Wilcoxon signed rank test and Wilcoxon rank test.

CR: STAT 2501, the former 2511, Psychology 2911, 2950, and the former 2901

LH: one 90 minute lab per week. Statistical computer packages will be used in the laboratory, but no prior computing experienced is assumed.

PR: STAT 1510 or 2500 or 2510 or 2550, Mathematics 1000 or the former 1081

3410 Mathematical Statistics I covers basic probability concepts, combinatorial analysis, conditional probability, independence, random variable, distribution function, mathematical expectation, Chebyshev's inequality, distribution of two random variables, binomial and related distributions, Poisson, gamma, normal, bivariate normal, t, and F distributions, transformations of variables including the moment-generating function approach.

OR: one and a half hour tutorial period weekly

PR: Mathematics 2000

3411 Mathematical Statistics II examines sampling distributions. Limiting distributions, central limit theorem, minimum variance unbiased estimators, confidence intervals, MLE and its asymptotic properties, exponential family, sufficient statistics, Rao-Cramér inequality, efficiency, Neyman-Pearson lemma, chi-square tests, likelihood ratio test.

OR: one and a half hour tutorial period weekly

PR: STAT 3410

3520 Experimental Design I (F) is an introduction to basic concepts in experimental design, single factor designs including completely randomized, randomized blocks, Latin square and related designs, multiple comparison tests, fixed and random effects models, introduction to factorial design.

CR: Psychology 3900 and 3950

PR: Mathematics 2050 and either STAT 3411 or both Mathematics 1001 and one of STAT 2501 or 2560 or the former 2511

3521 Regression (W) covers inferences in linear regression analysis, matrix approach to regression analysis, multiple linear regression, model selection, polynomial regression, indicator variable, problem of simultaneous inferences, multicollinearity.

PR: Mathematics 2050 and either STAT 3411 or both Mathematics 1001 and one of STAT 2501 or 2560 or the former 2511

3530 Survey Sampling I (F) covers basic concepts, randomization, sampling frames, stratified sampling, the analysis of subclasses, cluster sampling, stratified cluster sampling, unequal clusters, ratio estimates selection with probabilities proportional to size.

PR: either STAT 3411 or both Mathematics 1001 and one of STAT 2501 or 2560 or the former 2511

3540 Time Series I covers Autocovariance, autocorrelation and correlation, stationarity, autoregressive, moving average and ARMA models, differencing, the integrated ARMA process, parameter estimation, model identification and diagnostic testing, forecasting, seasonal models, the use of data transformation.

PR: either STAT 3411 or both Mathematics 1001 and one of STAT 2501 or 2560 or the former 2511

3570 Reliability and Quality Control is an analysis of life, mortality and failure data, standard parametric models in reliability, quality control charts and cumulative sum charts, tolerance limits, contingency tables, interactions, application of sequential sampling.

PR: either STAT 3411 or both Mathematics 1001 and one of STAT 2501 or 2560 or the former 2511

3590 Statistics in Applied Research - inactive course.

4401 Probability Theory is a review of Riemann integration, outer measure, measure, measurable sets, measurable functions, the Lebesgue integral, properties of the Lebesgue integral, sequences of integrals, Fubini's theorem.

PR: Mathematics 3000, STAT 3410

4402 Stochastic Processes covers stochastic processes, stationarity, random walks, Markov chains, renewal, and queuing.

CR: Mathematics 4102

PR: STAT 3410

4410 Mathematical Statistics III examines multivariate normal distribution theory, applications to ANOVA and regression, other topics such as sequential tests, distribution of order statistics, nonparametrics and decision theory.

PR: Mathematics 2051, STAT 3411

4520 Experimental Design II (W) covers selected topics in ANOVA and ANCOVA including factorial experiments and unbalanced designs.

PR: STAT 3520

4530 Survey Sampling II (W) covers area sampling, multi-stage sampling, two-phase sampling, ratio, regression and difference estimates, composite sampling designs, sampling from imperfect frames, bias and non-sampling

errors.

PR: Mathematics 2000 and STAT 3530

4540 Time Series II is an analysis of time series in the time domain, including stationary and non-stationary processes, autocovariance kernels and their estimators, analysis of autoregressive and moving average models, spectral analysis including the power spectrum and its estimators, periodogram, smoothed and filtered estimators.

PR: STAT 3411 and 3540

4550 Non-parametric Statistics covers inferences concerning location based on one sample, paired samples or two samples, inferences concerning scale parameters, goodness-of-fit tests, association analysis, tests for randomness.

PR: one of STAT 3520 or 3521 or STAT 3411

4560 Continuous Multivariate Analysis examines the multivariate normal distribution and its marginal and conditional distributions, properties of the Wishart distribution, Hotelling's T-squared statistic, a selection of techniques chosen from among MANOVA, multivariate regression, principal components, factor analysis, discrimination and classification, clustering.

PR: Mathematics 2051, STAT 3410 and one of STAT 3411, 3520, or 3521

4561 Discrete Multivariate Analysis is an analysis of cross-classified categorical data, chi-square test, measures of association, multidimensional contingency tables, hypotheses of partial and conditional independence, log-linear models for Poisson, multinomial and product-multinomial sampling schemes, iterative scaling technique for maximum likelihood estimation, step-wise model selection procedures, partitioning chi-square, explanatory and response variables in contingency tables, logit models.

PR: STAT 3520 or 3521

4580 History of Statistics - inactive course.

4581 Quantitative Methods in Biology - inactive course.

4585 Computational Statistics is an introduction to modern computational statistics, using a statistical programming language, such as S-Plus. Emphasis is placed on use of the computer for numerical and graphical exploratory data analysis, and on crafting programs to accomplish specialized statistical procedures.

PR: Mathematics 2000, STAT 3520, 3521. Mathematics 2130 is recommended

4590 Statistical Analysis of Data I is for users of Statistics with emphasis placed on computer analysis of statistical problems drawn from various disciplines, descriptive statistics, analysis of univariate measurement data, chi-square tests, non-parametric tests, basic ANOVA and regression.

LH: one 90 minute lab per week

PR: one of STAT 3411, 3520, or 3521

4591 Statistical Analysis of Data II - inactive course.

4599 Honours Comprehensive with Directed Readings is a directed reading course with Comprehensive examination.

PR: registration in an Honours or Joint Honours program in Statistics

8.9 Physics and Physical Oceanography

Physics courses are designated by PHYS.

1020 Introductory Physics I (F) & (W) is a non-calculus based introduction to mechanics. This course may be completed by someone who has no physics background provided some extra effort is made.

CO: Mathematics 1090

CR: PHYS 1050

LH: 3; six laboratory sessions per semester

OR: tutorial sessions may be held on weeks when no laboratory is scheduled

PR: Level III Advanced Mathematics or Mathematics 1090. It is recommended that students have completed at least one of level II and level III high school physics courses

1021 Introductory Physics II (F) & (W) is a non-calculus based introduction to fluids, wave motion, light, optics, electricity and magnetism.

CO: Mathematics 1000

LH: 3; normally there will be six laboratory sessions per semester

OR: tutorial sessions may be held on weeks when no laboratory is scheduled

PR: PHYS 1020 or 1050 and Mathematics 1090 or 1000

1050 General Physics I: Mechanics (F) & (W) is a calculus based introduction to mechanics. The course will emphasize problem solving. For more details regarding PHYS 1050, see Note 4 under Physics and Physical Oceanography.

CO: Mathematics 1000

CR: PHYS 1020

LH: 3; normally there will be six laboratory sessions per semester

OR: tutorial sessions may be held on weeks when no laboratory is scheduled

PR: Mathematics 1000

1051 General Physics II: Oscillations, Waves, Electromagnetism (F) (W) & (S) is a calculus based introduction to oscillations, wave motion, physical optics and electromagnetism.

CO: Mathematics 1001

LH: 3; normally there will be six laboratory sessions per semester

OR: tutorial sessions may be held on weeks when no laboratory is scheduled

PR: PHYS 1050, or 1021, or 1020 (with a minimum grade of 65%) and Mathematics 1001

2053 Fluids and Thermal Physics (F) examines elasticity, fluid mechanics, thermodynamics, kinetic theory and statistical mechanics.

CO: Mathematics 1001 and PHYS 1051

LH: 3

PR: Mathematics 1001 and PHYS 1051

2055 Electricity and Magnetism (W) examines Gauss' Law, the electrostatic potential, capacitance, magnetic forces and the magnetic field, electromagnetic induction, magnetic materials, ac circuits, superconductivity, the displacement current and Maxwell's equations.

CO: Mathematics 2000

LH: 3

PR: Mathematics 2000 and PHYS 1051

2151 Stellar Astronomy and Astrophysics (F) & (W) covers atomic structure and spectra. The sun: radiation, energetics, magnetic field. Stars: distance, velocity, size, atmospheres, interiors. Variable stars, multiple stars, clusters and stellar associations. Stellar evolution, interstellar matter, structure of the Milky Way Galaxy. Exterior galaxies, quasi-stellar objects, pulsars. Cosmology.

PR: 6 credit hours in Mathematics courses at the first year level

2750 Modern Physics (W) covers special relativity, quanta of light, atomic structure and spectral lines, quantum structure of atoms and molecules, nuclei and elementary particles.

CO: Mathematics 1001 and PHYS 1051

CR: PHYS 2056

PR: Mathematics 1001 and PHYS 1051

2820 Computational Mechanics (F) & (W) covers newtonian dynamics and celestial mechanics, numerical differentiation and integration, numerical solutions to mechanics problems, data and spectral analysis, Fourier series and normal modes, oscillations and vibrations, linear and non-linear oscillators, nonlinear dynamics and chaos.

CO: Mathematics 2000

LC: 5

LH: 5

PR: Mathematics 2000 and PHYS 1051

3000 Physics of Device Materials (F) is structures of crystalline and amorphous solids. Excitations and transport in metals, semiconductors, and dielectrics; electronic band structures. Physics of multi-material devices including photodiodes, solid state lasers, and field-effect transistors.

PR: PHYS 2055 or registration in Academic Term 3 of the Electrical Engineering Program

3150 Astrophysics I (W) is a review of macroscopic and microscopic physics. The sun: luminosity, mass, spectrum, photosphere, corona, interior. Principles of stellar structure; radiative and convective transport of energy. The virial theorem. Thermonuclear fusion; temperature dependence; the solar neutrino problem. Nucleosynthesis; the curve of binding energy; the synthesis of heavy elements. White dwarfs, neutron stars, and black holes; degenerate electron and neutron gases; Chandrasekhar's Limit. Population I and Population II stars; the Hertzsprung-Russell diagram; relationships among luminosity, mass, and effective temperature for main sequence stars. Evolution of post main sequence stars.

PR: PHYS 2053, 2750 (or 2056), and 2820

3151 Astrophysics II covers stellar spectra and classification of stars. Hertzsprung-Russell diagram; equations of stellar structure for a star in equilibrium; temperature and density dependencies of nuclear processes. Formation and classification of binary stars; mass and energy transfer in binary star systems; semidetached binaries; cataclysmic variables, pulsars, etc. Galaxies and galactic structure; active galactic nuclei; cosmological redshift. Cosmology.

PR: PHYS 3150 and 3220

3220 Classical Mechanics I (F) covers kinematics and dynamics of a particle. Moving reference systems. Celestial mechanics. Systems of particles.

CO: PHYS 2820 and Mathematics 3260

PR: PHYS 2820 and Mathematics 3260

3230 Classical Mechanics II (W) covers rigid body motion. Lagrange's equations. Hamilton's equations. Vibrations. Special theory of relativity.

PR: PHYS 3220 and 3810 (or Mathematics 3202) and Mathematics 3260

3300 Introduction to Physical Oceanography (F) deals with the physics of processes in the ocean, but provides an integrated view of the whole field of oceanography. The importance of physical processes to other aspects of oceanography is treated.

PR: PHYS 2053 and Mathematics 2000

3340 Principles of Environmental Physics will explore the basic physical principles of light, heat, energy and sound in the natural environment. Several key aspects of physics in the environment will be covered including climate and the physical evolution of the planet and the present role of the atmosphere and ocean spectroscopy in the atmosphere and measurement and observation of the atmosphere; principles of energy generation and pollution transport in the atmosphere and ocean.

PR: Mathematics 2000 and PHYS 2053

3400 Thermodynamics (F) covers the first and second laws of thermodynamics. Entropy. Thermodynamics of real substances. Kinetic theory of matter. Introduction to statistical mechanics.

PR: Mathematics 2000, PHYS 2053 and PHYS 2750 or 2056

3500 Electromagnetic Fields I (F) examines electrostatic Field; field, potential, Poisson's equation, Laplace's equation, capacitance, dielectrics, polarization, electric displacement, boundary conditions. Magnetic Field: electric current and magnetic field, vector potential, Lorentz force and relativity, changing magnetic field, inductance, magnetic materials, magnetization. Maxwell's equations.

PR: PHYS 2055 and 3810 (or Mathematics 3202)

3550 Electric Circuits (S) covers circuit elements. Simple resistive circuits. Techniques of circuit analysis. Topology in circuit analysis. Operational amplifiers. Reactive circuit elements. Natural response and step response of RL, RC and RLC circuits. Circuits driven by sinusoidal sources. Mutual inductance. Series and parallel resonance. Laplace transforms in the analysis of frequency response.

CO: Mathematics 3260

CR: Engineering 3821

LC: 6

LH: 6

PR: Mathematics 2050, Mathematics 3260, PHYS 2055

3551 Analogue Electronics - inactive course.

3600 Optics and Photonics I (W) covers geometrical Optics: thin lenses, mirrors, optical systems. Two-beam and multiple-beam interference phenomena. Fraunhofer Diffraction. Introduction to Maxwell's Theory: reflection, transmission, and polarization. Modulation of light waves. Fibre-optical light guides: intermodal dispersion, index profiles, loss mechanisms, single mode fibres. Optical communication systems: free space and fibre systems, emitters, detectors, amplifiers, wavelength-division multiplexing, integrated optics.

PR: Mathematics 2000 and PHYS 2055

3750 Quantum Physics I (F) covers wave-particle duality of nature. Introduction to Quantum Mechanics. Schrödinger equation. One electron atoms. Quantum statistics.

CO: PHYS 3220 and 3810 or Mathematics 3202

PR: PHYS 2750 (or 2056), 3220 and 3810 (or Mathematics 3202)

3751 Quantum Physics II (W) covers multielectron atoms. Molecules. Solids - conductors and semiconductors. Superconductors. Magnetic properties. Nuclear models. Nuclear decay and nuclear reactions. Properties and interactions of elementary particles.

PR: PHYS 3750

3800 Computational Physics is a project-based course intended to train students to become functional in computational methods, by writing and compiling computer code (C/Fortran) in a Unix environment to solve problems drawn from different areas of physics. Students will complete several projects selected from different areas of physics. Projects will introduce the students to a particular class of numerical methods. Lectures and tutorials will cover the theory that underlies the computational methods and background for code development and the application of the required numerical methods.

CO: Any two 2000-level Physics course plus at least one other 3000-level Physics course

LC: 5

LH: 5

PR: Computer Science 1510, PHYS 2820, Mathematics 3202, Mathematics 3260

3810 Mathematical Analysis (F) - inactive course.

3820 Mathematical Physics III (F) examines the functions of a complex variable; residue calculus. Introduction to Cartesian tensor analysis. Matrix eigenvalues and eigenvectors. Diagonalization of tensors. Matrix formulation of quantum mechanics. Quantum mechanical spin. Vector differential operators in curvilinear coordinate systems. Partial differential equations of Mathematical Physics and boundary value problems; derivation of the classical equations, separation of variables; Helmholtz equation in spherical polar coordinates.

PR: Mathematics 3260 and PHYS 3810 (or Mathematics 3202)

3900 Physics Laboratory I (W) is a selection of experiments based primarily on material covered in the third year courses.

LH: 6

PR: at least two of PHYS 2053, 2820, 2055, and PHYS 2750 (or 2056)

4000 Solid State Physics covers crystal structure and binding, phonons and lattice vibrations, thermal properties of solids. Electrons in solids, energy bands, semi-conductors, superconductivity, dielectric properties. Magnetic properties of solids.

PR: PHYS 3400 and 3750 or waiver approved by the instructor

4200 Classical Mechanics III - inactive course.

4205 Introduction to Fluid Dynamics (same as Mathematics 4180) covers basic observations, mass conservation, vorticity, stress, hydrostatics, rate of strain, momentum conservation (Navier-Stokes equation), simple viscous and inviscid flows, Reynolds number, boundary layers, Bernoulli's and Kelvin's theorems, potential flows, water waves, thermodynamics.

CR: Mathematics 4180

PR: PHYS 3220 and either Mathematics 4160 or the former PHYS 3821 or waiver approved by the instructor

4210 Continuum Mechanics - inactive course.

4220 Introduction to general Relativity (Mathematics 4130) studies both the mathematical structure and physical content of Einstein's theory of gravity. Topics include the geometric formulation of special relativity, curved spacetimes, metrics, geodesics, causal structure, gravity as spacetime curvature, the weak-field limit, geometry outside a spherical star, Schwarzschild and Kerr black holes, Robertson-Walker cosmologies, gravitational waves, an instruction to tensor calculus, Einstein's equations, and the stress-energy tensor.

CO: Mathematics 4230

CR: Mathematics 4130

PR: Mathematics 3202 and one of PHYS 3220, Mathematics 4230 or waiver approved by the instructor

4300 Advanced Physical Oceanography (W) covers fundamental properties of seawater and techniques of oceanographic measurement. The dynamical equations of oceanography are derived and solutions explored by comparison with oceanic observations. Properties of waves in rotating and non-rotating fluids. Linear and non-linear wave theory are developed.

PR: PHYS 3300 and 3820 or registration in Academic term 6 of the Ocean and Naval Architectural Engineering program, or waiver approved by the instructor

4330 Topics in Physical Oceanography - inactive course.

4340 Modelling in Environmental Physics covers the basic principles underlying environmental modelling will be developed and techniques for modelling presented and applied. Techniques for numerical modelling will be developed and simple numerical models will be developed for use in terrestrial, atmospheric and oceanic environments. Free and forced systems will be discussed and the transition to chaos and some aspects of chaotic dynamics.

PR: PHYS 3340 and PHYS 3820 or waiver approved by the instructor

4400 Statistical Mechanics (W) covers ensembles. Classical and quantum statistical mechanics. Statistical mechanics of phase transitions. Advanced topics in statistical mechanics.

CO: PHYS 3750

PR: PHYS 3400 and 3750

4500 Electromagnetic Fields II covers multipole expansions, electrostatic fields as boundary value problems, polarizability of molecules in dielectric media, Clausius-Mossotti relation, gauges. Electromagnetic Waves: Poynting's theorem, reflection and transmission of electromagnetic waves, cavity resonators, wave guides. Electromagnetic Radiation: dipoles, antennas, quantum mechanics and electro-magnetic interactions. Selected topics in electrodynamics and applied electromagnetism.

PR: PHYS 3500 and 3820 or waiver approved by the instructor

4600 Optics and Photonics II is a review of basic topics in wave optics. Phase sensitive imaging. Electromagnetic waves in anisotropic media. Scattering of electromagnetic waves. The physics of light sources and applications. Non-linear optics and applications.

CO: PHYS 3751

PR: PHYS 3500, 3600, and PHYS 3751 or waiver approved by the instructor

4700 Atomic and Molecular Physics - inactive course.

4710 Nuclear Physics - inactive course.

4820 Mathematical Physics III (W) covers further topics on partial differential equations of Mathematical Physics and boundary value problems; Sturm-Liouville theory, Fourier series, generalized Fourier series, introduction to the theory of distributions, Dirac delta function, Green's functions, Bessel functions, Legendre functions, spherical harmonics.

PR: PHYS 3820

4850 Quantum Mechanics (F) examines postulates of quantum mechanics. Operators and operator algebra. Matrix representations. Spin and magnetic fields. Approximation methods: WKB method, time independent perturbation theory, time dependent perturbation theory, variational methods. Elementary scattering theory.

PR: PHYS 3230, 3750, 3820 or waiver approved by the instructor

4851 Advanced Quantum Mechanics (W) covers general formulation of quantum mechanics, measurement theory and operators. Hilbert spaces. Advanced topics selected from: electron in a strong magnetic field and the Aharonov-Bohm effect; advanced scattering theory; systems of identical particles; Feynman path integral formulation of quantum mechanics; relativistic quantum mechanics; second quantization; symmetry and group theory; density matrix and mixtures.

PR: PHYS 4850 and the former 3821 or waiver approved by the instructor

4900 Physics Laboratory II (F) is a selection of experiments at the senior level.

LH: 6

PR: PHYS 3900

490A/B Honours Physics Thesis is required of the Honours program.

6317 Underwater Acoustics covers basic theory of sound, sound in the ocean environment, wave equation, ray tracing, sonar system operation, transducers, applications.

PR: PHYS 3810 (or the former Mathematics 3220) and 3220, or waiver approved by the instructor

6318 Ocean Climate Modelling covers numerical techniques, finite difference, finite element and spectral methods. Introduction to the climate system. Ocean climate models. Box models. Variability on interdecadal, centennial and geological scales. Zonally averaged models. 3-D ocean modelling. Thermohaline circulation. General circulation models. Climate modelling and global warming.

PR: PHYS 3810 (or Mathematics 3202), PHYS 3300 and the completion of any 15 credit hours in core courses at the 3000 or 4000 level in the Faculty of Science or waiver approved by the instructor

8.10 Psychology

Psychology courses are designated by PSYC.

8.10.1 Non-Restricted Courses

These courses are open to all students who have the appropriate prerequisites. Students who intend to major in Psychology should note the credit restrictions for PSYC 2010, 2100, 2440, 2610, 2810, 2920, and 3640 as taking any of these courses will reduce options in the Majors program

1000 Introduction to Psychology is the first half of a two-semester introduction to Psychology as a biological and social science. Topics may include history, research methodology, behavioural neuroscience, sensation and perception, consciousness, learning, and memory.

1001 Introduction to Psychology is the second half of a two-semester introduction to Psychology as a biological and social science. Topics may include emotion, motivation, stress and health, personality and individuality, psychological disorders and treatment, and social psychology.

PR: PSYC 1000

2010 The Psychology of Human Development I is a survey of principles underlying human development from the prenatal stage to adolescence. Topics covered will include sensorimotor, linguistic, perceptual, cognitive and motivational changes.

CR: PSYC 2025, PSYC 3050

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2011 The Psychology of Human Development II is an examination of relevant research on socialization and personality development with special emphasis on attachment, imitation, sex role and moral development in childhood and adolescence.

CR: PSYC 2025

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2012 Adult Development from Young Adulthood to Old Age examines physical and psychological changes from early adulthood until the end of the lifespan. Topics include career choices, love partnerships, parenting and grandparenting, cognitive changes, interpersonal changes, and healthy aging.

CR: the former PSYC 3052

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2100 Attitudes and Social Cognition - inactive course.

2120 Interpersonal and Group Processes - inactive course.

2150 Introduction to Forensic Psychology will provide an in-depth overview of the relationship between psychology and the law. A variety of topics will be discussed and critically evaluated, including the use and misuse of psychology-based investigative methods such as offender and geographic profiling, detection of deception, investigative interviewing, eyewitness testimony, jury decision-making, corrections and treatment, risk assessment, and criminal responsibility.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2151 Health Psychology will explore the history, aims and future of health psychology. Topics covered will consider the contributions of a wide range of psychological theory within the context of psychosocial risk factors for illness, illness prevention, health promotion, and the health care system itself. These theories extend from rather individualistic notions of health and wellness (e.g., personality, attitudes, and behaviour) to concepts associated with characteristics of the broader social environment (e.g., social support, economic challenges, and organizational factors). An overall bio-psycho-social approach to health and wellness is explored.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2240 Survey of Learning is a survey of learning phenomena and learning theories. Topics to be studied will include a selection of the following: the evolutionary context of learning, habituation and sensitization, Pavlovian conditioning, instrumental learning, and generalization and discrimination in learning. Applications of learning principles to topics such as child rearing, education, drug use and rehabilitation, as well as to other topics of contemporary interest, will also be discussed.

CR: PSYC 3250, the former PSYC 2225, the former PSYC 2250

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2440 Human Memory and Cognition is an introduction to the basic principles of human memory and information processing. Topics covered will include the organization, representation and retrieval of information in memory, attention, pattern recognition, language processing, mental imagery, reasoning, problem solving, and decision making. There will be an emphasis on the application of basic principles to real life situations.

CR: PSYC 3450, PSYC 2425

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2540 Psychology of Gender is an examination of the influence of gender on development and socialization, attitude formation, cognition, personality and mental health.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2560 Intelligence - inactive course.

2610 Personality is a review of the research and theory pertaining to a psychological understanding of human personality.

CR: the former PSYC 2620, PSYC 2625, PSYC 3620

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2800 Drugs and Behaviour is an examination of the neurophysiology of drug action, the measurable effect of drugs on experimentally controlled behaviour, and a survey of information available on common self-administered drugs and their immediate and long-term effects.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2810 Brain and Behaviour is a broad survey of physiological psychology at an elementary level. Topics will include the following: structure of the nervous system, nerve conduction, sensory and motor systems, behavioural biology of reproduction, aggression, feeding and drinking, sleep and arousal, pleasure and pain, learning and memory.

CR: PSYC 2825, the former PSYC 2850, PSYC 3801

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

2920 Research Methods in Psychology for Non-Majors provides an introduction to the design, understanding, and application of psychological research. Topics covered include understanding and applying scientific method, creating and testing hypotheses, constructing reliable and valid experiments, and the proper use of controls. An emphasis will be placed on thinking critically about psychology and common errors of judgment.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major or any Psychology honours or joint honours programs

3430 The Psychology of Thinking will present theories and experimental studies of problem solving, creativity and decision making. Topics covered will include the difficulties encountered in problem solving and solutions such

as strategies for organizing and representing information, the production of ideas, transfer and discovery learning.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

3501 Industrial Psychology - inactive course.

3533 Sexual Behaviour covers the most important aspects of human sexuality with a psychology theory and research framework. The course will examine the biological, behavioural and socio-cultural bases of the human sexual response. Topics include sexual interaction and communication, contraception, sexually transmitted infections, reproduction, sexual orientation, transgender and intersex, variations in sexual behaviour, sex and gender, sexual dysfunction and therapy, and sexual coercion.

PR: PSYC 1000 and 1001

UL: cannot be used towards the Psychology major

3577 Program Evaluation - inactive course.

3640 The Psychology of Abnormal Behaviour covers problems of definition, the history of beliefs about abnormal behaviour and the implication of a behavioural model for the understanding and control of behaviour problems.

CR: PSYC 3650, PSYC 3626

PR: any 2000 level course in Psychology

UL: cannot be used towards the Psychology major

4810 Human Neuropsychology - inactive course.

8.10.2 Majors Courses

These courses are restricted to Majors in Psychology and Behavioural Neuroscience.

2520 Mind and Brain is based on the idea that psychological and neuroscience research efforts are synergistic. Neuroscience research can reveal mechanisms that help explain the mind and behavior, while concepts developed by psychological research often define the topics that neuroscience investigates. Topics such as memory, emotion, mental illness, and sleep will illustrate the utility of multiple research perspectives for developing a more complete understanding of psychological issues.

PR: PSYC 1000 and 1001 and admission to a Major in Psychology or Behavioural Neuroscience; minors may be permitted to take this course if space permits

2570 Understanding Individual Differences uses current conceptualizations of personality and ability as a focus. The course will review issues related to the measurement of individual differences, including test characteristics and ethics. Research from a variety of perspectives will be used to illustrate the contributions of different areas of psychology to our understanding of individual differences.

PR: PSYC 1000 and 1001 and admission to a Major in Psychology or Behavioural Neuroscience; minors may be permitted to take this course if space permits

2910 Research Methods in Psychology I is an introduction to the design and application of psychological research with particular concentration on understanding and applying scientific method, creating and testing hypotheses, constructing reliable and valid experiments, managing and analysing data sets, using statistical software, and scientific writing. Specific topics include descriptive statistics including measures of central tendency, variability and relative standing, inferential statistics such as *t* tests for one and two sample designs, correlation and regression, and non-parametric statistics.

CR: Statistics 2500, 2510, 2550, the former PSYC 2900, 2925

LH: one laboratory period weekly

PR: PSYC 1000 and 1001; Mathematics 1000 or two of 1090, 1050 and 1051 (or equivalent) and admission to a Major in Psychology or Behavioural Neuroscience

2911 Research Methods in Psychology II covers research methods in psychology with a focus on more complex research designs and statistical approaches, within the realm of experimentation and beyond the laboratory. Specific topics include controlling participant variables, using between and repeated measures designs within the context of Analysis of Variance (ANOVA). Particular ANOVA approaches include one-way and factorial designs, within subject design, and two-way mixed designs.

CR: Statistics 2501, 2560, the former PSYC 2901, 2950

LH: one laboratory period weekly

PR: PSYC 2910 and admission to a Major in Psychology or Behavioural Neuroscience

3050 Developmental Psychology is an examination of the methods of study and an evaluation of current findings and theoretical issues of importance to an understanding of development. Topics will be drawn from perception, learning, cognition, social learning, memory and language development.

CR: PSYC 2010, PSYC 2025

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology

or Behavioural Neuroscience

3100 Social Psychology is an examination of the concepts and principles involved in social behaviour. Topics covered will include attitudes, social cognition, interpersonal relations, and group processes.

CR: PSYC 2100, PSYC 2125

PR: PSYC 2520, 2570, and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3250 Learning (formerly PSYC 2250) examines how organisms adjust their behaviour to regularities in the environment as a result of experience.

CR: PSYC 2240, the former PSYC 2225, the former PSYC 2250

PR: PSYC 2520, 2570, and 2911, and admission to a Major in Psychology or Behavioural Neuroscience

3350 Perception (formerly PSYC 2360) is a broad survey of theory and research in sensation and perception.

CR: the former PSYC 2360

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3450 Human Cognition is an introduction to the experimental study of the mental representations and processes involved in human cognition. Topics such as attention, perception and pattern recognition, concepts and the organization of knowledge, language processes, mental imagery, reasoning, problem solving, decision making and skilled performance will be covered with an emphasis on experimental analysis and techniques.

CR: PSYC 2440, PSYC 2425

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3620 Personality Theory and Research is a survey of personality theory and research.

CR: PSYC 2610, PSYC 2625, and the former PSYC 2620

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3650 Abnormal Psychology is an examination of the nature, explanation and treatment of psychological disorders with an emphasis on research methods and current findings.

CR: PSYC 3640, PSYC 3626

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3750 Animal Behaviour I is an introduction to the mechanisms, development, function and evolution of behaviour in animals. Topics include the history of ethology and comparative psychology, and behavioural ecology; methods of animal behaviour study, behaviour of animals in relation to physiology, learning, communication, mating systems, and other areas in Biology and Psychology.

CR: Biology 3750

PR: Biology 1001, 1002 and PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3800 Neuroscience addresses the structure and function of neurons and neural circuits and examines principles of electrochemical neural communication at the macroscopic, microscopic and molecular level. The relevance of this knowledge to understanding brain mechanisms of normal and diseased brain functions will be touched upon. The molecular basis of the formation of some types of memories will be explored.

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3801 Behavioural Neuroscience is a survey of knowledge about brain mechanisms of behaviour. Topics will include the following: basic neuroanatomy and neurophysiology, somatosensory systems and pain, reward, mental illness, sleep and arousal, developmental neurobiology, sexual development and behaviour, regulation of eating and body weight, learning and memory, and cortical function, including cortical mediation of language.

CR: PSYC 2810, PSYC 2825, the former PSYC 2850

PR: PSYC 2520, 2570 and 2911 and admission to a Major in Psychology or Behavioural Neuroscience

3900 Design and Analysis III is a course on complex and specialized research design in Psychology. Multifactor research designs that employ both between- and within-subjects independent variables. Advantages and disadvantages of using multifactor research designs to test psychological hypotheses. Hierarchical designs and incomplete factorials. The use of covariates and blocking to increase experimental precision. Problems created by missing data. Single subject designs. How to answer specific psychological questions in the context of complex designs. The design and analysis of non-experimental psychological research. Applications of such techniques as the analysis of variance and multiple linear regression to the data obtained with these research designs, with special attention to problems inherent in psychological research.

CR: PSYC 3950, Statistics 3520

LH: one laboratory period weekly

PR: PSYC 2911 and admission to a Major in Psychology or Behavioural Neuroscience

4050 Selected Topics in Developmental Psychology I is an intensive examination of a specific topic in developmental psychology.

PR: PSYC 3050 or the former 3051 and admission to a Major in Psychology or Behavioural Neuroscience

4051 Selected Topics in Developmental Psychology II is an intensive examination of a specific topic in developmental psychology.

PR: PSYC 3050 or the former 3051 and admission to a Major in Psychology or Behavioural Neuroscience

4070 Research Experience in Development Psychology allows students to gain research experience in selected areas of developmental psychology.

PR: PSYC 2520, 2570, 2911, and 3050 and admission to a Major in Psychology or Behavioural Neuroscience

4150 Selected Topics in Social Psychology I is an intensive examination of a specific topic in social psychology.

PR: PSYC 3100 or the former PSYC 3160 and admission to a Major in Psychology or Behavioural Neuroscience

4151 Selected Topics in Social Psychology II is an intensive examination of a specific topic in social psychology.

PR: PSYC 3100 or the former PSYC 3160 and admission to a Major in Psychology or Behavioural Neuroscience

4152 Selected Topics in Applied Social Psychology is an intensive examination of a specific topic in applied social psychology.

PR: PSYC 3100 or the former PSYC 3160 and admission to a Major in Psychology or Behavioural Neuroscience

4160 Psychology and the Law - inactive course.

4170 Research Experience in Social Psychology will provide research experience in a selection of areas typically studied by social psychologists such as attitudes, prejudice, groups and social cognition. Students will acquire experience with research methods that are used to advance the body of knowledge in social psychology.

PR: PSYC 2520, 2570, 2911, and 3100 and admission to a Major in Psychology or Behavioural Neuroscience

4250 Selected Topics in Learning and Motivation I an intensive examination of a specific topic in learning and motivation.

PR: PSYC 3250 or the former PSYC 2250 and admission to a Major in Psychology or Behavioural Neuroscience

4251 Selected Topics in Learning and Motivation II is an intensive examination of a specific topic in learning and motivation.

PR: PSYC 3250 or the former PSYC 2250 and admission to a Major in Psychology or Behavioural Neuroscience

4260 Learning Processes and Drug Effects - inactive course.

4270 Research Experience in Learning allows students to gain research experience in selected areas of learning.

PR: PSYC 2520, 2570, 2911, and 3250 and admission to a Major in Psychology or Behavioural Neuroscience

4350 Selected Topics in Perception I is an intensive examination of a specific topic in perception.

PR: PSYC 3350 or the former PSYC 2360 and admission to a Major in Psychology or Behavioural Neuroscience

4351 Selected Topics in Perception II is an intensive examination of a specific topic in perception.

PR: PSYC 3350 or the former PSYC 2360 and admission to a Major in Psychology or Behavioural Neuroscience

4370 Research Experience in Perception allows students to gain research experience in selected areas of perception.

PR: PSYC 2520, 2570, 2911 and 3350 and admission to a Major in Psychology or Behavioural Neuroscience

4450 Selected Topics in Cognition I (same as the former PSYC 4400) is an intensive examination of a specific topic in cognition.

CR: the former PSYC 4400

PR: PSYC 3450 and admission to a Major in Psychology or Behavioural Neuroscience

4451 Selected Topics in Cognition II (same as the former PSYC 4401) is an intensive examination of a specific topic in cognition.

CR: the former PSYC 4401

PR: PSYC 3450 and admission to a Major in Psychology or Behavioural Neuroscience

4452 Selected Topics in Cognition: Reading is an intensive examination of a specific topic in reading and dyslexia.

PR: PSYC 3450 and admission to a Major in Psychology or Behavioural Neuroscience

4453 Selected Topics in Cognitive Science (same as the former PSYC 4402) is an intensive examination of a specific topic in cognitive science

from a psychological perspective.

CR: the former PSYC 4402

PR: two courses chosen from PSYC 3050, 3250, 3350, 3450, 3801 and admission to a Major in Psychology or Behavioural Neuroscience

4461 Psycholinguistics - inactive course.

4462 Human Memory surveys theories and research about how humans remember information and why they forget. Topics include research on sensory memory, short-term working memory, amnesia, forgetting, memory development, and semantic memory as well as practical issues such as how to improve memory.

PR: PSYC 3450 and admission to a Major in Psychology or Behavioural Neuroscience

4470 Research Experience in Cognition allows students to gain research experience in selected areas of cognition.

PR: PSYC 2520, 2570, 2911, and 3450 and admission to a Major in Psychology or Behavioural Neuroscience

4500 Selected Topics in Psychology I is an intensive examination of a specific topic in psychology that crosses traditional subdisciplines.

PR: two 3000-level majors courses (other than 3900) and admission to a Major in Psychology or Behavioural Neuroscience

4501 Selected Topics in Psychology II is an intensive examination of a specific topic in psychology that crosses traditional subdisciplines.

PR: two 3000-level majors courses (other than 3900) and admission to a Major in Psychology or Behavioural Neuroscience

4610 Selected Topics in Personality I is an intensive examination of a specific topic in personality.

PR: PSYC 3620 or the former PSYC 2620 and admission to a Major in Psychology or Behavioural Neuroscience

4620 Selected Topics in Personality II is an intensive examination of a specific topic in personality.

PR: PSYC 3620 or the former PSYC 2620 and admission to a Major in Psychology or Behavioural Neuroscience

4650 Selected Topics in Abnormal Behaviour I is an intensive examination of a specific topic in abnormal behaviour.

PR: PSYC 3650 and admission to a Major in Psychology or Behavioural Neuroscience

4651 Selected Topics in Abnormal Behaviour II is an intensive examination of a specific topic in abnormal behaviour.

PR: PSYC 3650, and admission to a Major in Psychology or Behavioural Neuroscience

4660 Developmental Psychopathology is a review of current theory and research related to the developmental course of maladaptive behaviours in children and adolescents. Topics will include behavioural, emotional and developmental disorders. Research concerning the role of individual, family, community and cultural factors will be discussed.

PR: PSYC 3650 and admission to a Major in Psychology or Behavioural Neuroscience

4661 Family Psychology is a study of the reciprocal relationship between family processes and abnormal behaviour. The course will focus on the role of family dynamics in the etiology of abnormal behaviour, the impact of psychological disorders on family functioning and the application of family therapy to create therapeutic change.

PR: PSYC 3650, or all of 2520, 2570, 2911 and 3640 and admission to a Major in Psychology or Behavioural Neuroscience

4662 Clinical Psychology and Theories of Psychotherapy - inactive course.

4670 Research Experience in Abnormal Psychology allows students to gain research experience in selected areas of clinical psychology.

PR: PSYC 2520, 2570, 2911 and 3650 and admission to a Major in Psychology or Behavioural Neuroscience

4671 Research Experience in Personality allows students to gain experience in selected areas of personality research.

PR: PSYC 2520, 2570, 2911 and 3620 and admission to a Major in Psychology or Behavioural Neuroscience

4701 Animal Behaviour II (same as Biology 4701) is an examination of the behaviour of animals with particular emphasis on evolution and ecology. Topics include behavioural genetics and evolution, reproductive strategies, social behaviour, habitat selection, territoriality, foraging behaviour, and other topics in Biology and Psychology.

CR: Biology 4701

LH: one laboratory period weekly

PR: Biology 3750 or Psychology 3750

4750 Selected Topics in Animal Behaviour I is an intensive examination of a specific topic in animal behaviour.

PR: PSYC 3750 or Biology 3750 and admission to a Major in Psychology

or Behavioural Neuroscience

4751 Selected Topics in Animal Behaviour II is an intensive examination of a specific topic in animal behaviour.

PR: PSYC 3750 or Biology 3750 and admission to a Major in Psychology or Behavioural Neuroscience

4770 Research Experience in Animal Behaviour allows students to gain research experience in selected areas of animal behaviour.

PR: PSYC 2520, 2570, 2911 and 3750 and admission to a Major in Psychology or Behavioural Neuroscience

4850 Selected Topics in Behavioural Neuroscience I is an intensive examination of a specific topic in behavioural neuroscience.

PR: PSYC 2810; or 3800 or 3801 and admission to a Major in Psychology or Behavioural Neuroscience

4851 Selected Topics in Behavioural Neuroscience II is an intensive examination of a specific topic in behavioural neuroscience.

PR: PSYC 2810; or 3800, or 3801 and admission to a Major in Psychology or Behavioural Neuroscience

4870 Research Experience in Neuroscience allows students to gain research experience in selected areas of neuroscience.

PR: PSYC 2520, 2570, 2911, and either 3800 or 3801 and admission to a Major in Psychology or Behavioural Neuroscience

4910 Systems in Contemporary Psychology is a study of paradigms and explanations in contemporary psychology in the context of their historical antecedents.

PR: at the St. John's campus, 30 credit hours in Psychology courses required in the majors program and admission to a Major in Psychology or Behavioural Neuroscience or, at the Grenfell campus, 30 credit hours in Psychology courses including Psychology 3950

499A and 499B Honours Dissertation is a linked course, based on independent study of an approved problem in Psychology. The topic will be chosen in consultation with the Faculty Advisor. The first semester will normally involve directed reading in this area, and preparation of a dissertation proposal. The second semester will be devoted to conducting the study, gathering data, data analysis and preparation of a formal written report. The dissertation must be submitted for grading before the end of the tenth week of the semester in which the student is registered for 499B.

CH: 6

PR: admission to the Honours Program

8.10.3 Psychology Work Term Descriptions

The Following Work Terms are a requirement of the Psychology Co-op Program only.

199W Work Term I follows the successful completion of Semester 4. Students are expected to learn, develop and practice the high standards of behaviour and performance normally expected in the work environment. (A detailed description of each job is normally posted during the job competition.) As one component of the Work Term, the student is required to complete a work report. The work report, as a minimum requirement should:

1. analyse an issue/problem related to the student's work environment.
2. demonstrate an understanding of the structure of a professional report, and show reasonable competence in written communication and presentation skills. (Students should consult the evaluation form provided in the placement package.)

Late reports will be graded as FAL unless prior permission for a late report has been given by the co-ordinator.

Seminars on professional development, conducted by the Division of Co-operative Education, are presented during Semester 4 to introduce and prepare the student for participation in the subsequent work terms. Topics may include among others, work term evaluation, work report writing, career planning, employment seeking skills, resume preparation, self employment, ethics and professional concepts, behavioural requirements in the work place, assertiveness in the work place and industrial safety.

299W Work Term II follows the successful completion of Semester 6. Students are expected to further develop and expand their knowledge and work-related skills and should be able to accept increased responsibility and challenge. In addition, students are expected to demonstrate an ability to deal with increasingly complex work-related concepts and problems. The work report, as a minimum requirement, should:

1. analyse an issue/problem related to the student's work environment and demonstrate an understanding of practical application of concepts relative to the student's academic background
2. demonstrate competence in creating a professional report, and
3. show competence in written communication and presentation skills

Late reports will be graded as FAL unless prior permission for a late report has been given by the co-ordinator.

399W Work Term III follows the successful completion of Semester 7. Students should have sufficient academic grounding and work experience to contribute in a positive manner to the problem-solving and management

processes needed and practiced in the work environment. Students should become better acquainted with their discipline of study, should observe and appreciate the attitudes, responsibilities, and ethics normally expected of professionals and should exercise greater independence and responsibility in their assigned work functions. The work report should reflect the growing professional development of the student and, as a minimum requirement, will:

1. demonstrate an increased ability to analyse a significant issue/problem related to the student's experience in the work environment
2. demonstrate a high level of competence in producing a professional report, and
3. show a high level of competence in written communication and presentation skills

Late reports will be graded as FAL unless prior permission for a late report has been given by the co-ordinator.

8.11 Science

1000 Introduction to Science I is a liberal science course for Arts students, which reflects the way scientists think and work through historical, philosophical and social considerations of the environment we live in. Typical course content includes: the concepts of matter, motion and energy; the chemical basis for life and the interdependence of organisms; and the abundance and distribution of the Earth's natural resources.

UL: may not be used to fulfill any of the Science course requirements for the Honours and General Degrees in Science

1001 Introduction to Science II is continuation of Science 1000.

PR: Science 1000

UL: may not be used to fulfill any of the Science course requirements for the Honours and General Degrees in Science

1150 Introduction to Physical and Life Sciences (formerly Science 115A) is an introduction to some concepts in the Physical and Life Sciences. This course is primarily intended for the non-science major (Bachelor of Arts; Bachelor of Education (Primary/Elementary)).

CR: the former Science 115A

UL: not acceptable as a prerequisite for 2000 level courses in Physics, Chemistry, Biology, Geography or Earth Sciences

1151 Introduction to Physical and Life Sciences (formerly Science 115B) is an introduction to some concepts in the Physical and Life Sciences. This course is primarily intended for the non-science major (Bachelor of Arts; Bachelor of Education (Primary/Elementary)).

CR: the former Science 115B

UL: not acceptable as a prerequisite for 2000 level courses in Physics, Chemistry, Biology, Geography or Earth Sciences

5998 Exchange Programs in Science will be available only to students attending Memorial University of Newfoundland as part of a formal exchange agreement, memorandum of understanding, or other special arrangement. This course will normally be offered twice a year, from March to August and September to February.

CH: 3 - 15, to be determined for each offering by the Dean in consultation with the appropriate Head of Department or Co-ordinator

PR: permission of the Dean of Science

UL: may be repeated for credit once

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

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SCHOOL OF SOCIAL WORK

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Dean

Al-Krenawi, A., B.A. *Ben-Gurion University of the Negev, Israel*, M.S.W. *The Hebrew University of Jerusalem, Israel*, Ph.D. *Toronto*; Professor

Associate Dean - Undergraduate Programs

Parsons, J.E., B.A. *Memorial*, B.S.W. *Windsor*, M.S.W., Dip.Soc.Admin. *Wilfrid Laurier*; Assistant Professor

Associate Dean - Graduate Programs and Scholarship

Hardy Cox, D., B.S.W. *Memorial*, M.S.W. *Carleton*, Ed.D. *Maine*; Cross appointment with Faculty of Education; Scholar, Centre for Collaborative Health Professional Education, Faculty of Medicine; Professor

Graduate Officer - Master of Social Work

Devine, M., B.S.W., M.S.W., Ph.D. *Memorial*; Assistant Professor

Graduate Officer - Doctor of Philosophy in Social Work

Kimberley, M.D., B.A. *Carleton*, M.S.W. *McGill*, D.S.W. *Toronto*; Professor

Professor Emeritus

Sachdev, P., B.A. *India*, Dip. Soc. Wel. Policy *The Hague*, M.S.W. *Illinois*, Ph.D. *Wisconsin*, Winner of the President's Award for Outstanding Research, 1985-1986

Honorary Research Professor

Bella, L., B.A. *Newcastle-upon-Tyne*, M.S.W. *British Columbia*, Ph.D. *Alberta*

Professors

Barter, K.A., B.A. *Memorial*, M.S.W. *Calgary*, Ph.D. *Wilfrid Laurier*
Klein, R., B.S. *Arizona*, M.S.W. *Maryland*, M.A., Ph.D. *Syracuse*;
Cross appointment with Tourism Studies, Grenfell Campus

Associate Professors

Birnie-Lefcovitch, S., B.A. *Sir George Williams*, M.S.W. *McGill*, Ph.D. *Wilfrid Laurier*; Cross appointment with Counselling

Centre

Fitzpatrick, J., B.A., B.S.W. *Memorial*, M.S.W. *Toronto*, Ph.D. *Memorial*

LeFrançois, B., B.A. *McGill*, M.A. *Anglia Ruskin University (UK)*, Ph.D. *University of Kent at Canterbury (UK)*

Swan, T., B.A. *McMaster*, MSW *Toronto*, Ph.D. *Wilfrid Laurier*
Taylor, S., B.S.W. *Memorial*, M.S.W. *Toronto*, Ph.D. *Memorial*

Assistant Professors

Ball, H.K., B.A.(Hons.) *Guelph*, M.S.W., Ph.D. *Wilfrid Laurier*

de Boer, C., B.S.W. *Western Ontario*, MTHST *Wilfrid Laurier*, M.A. *Toronto*, M.S.W., Ph.D. *Wilfrid Laurier*

Ellenbogen, S., B.A. *Concordia*, M.Sc. *Montreal*, Ph.D. *McGill*

Hair, H., B.A. (Hons.) *Concordia*, M.Sc. *Guelph*, M.A., Ph.D. *Wilfrid Laurier*

Mullings, D., B.A., B.S.W., M.S.W. *McMaster*, Ph.D. *Wilfrid Laurier*

Neckoway, R., B.S.W., M.S.W. *Lakehead*, Ph.D. *Memorial*

Shaikh, S., B.S.W., M.S.W. *McMaster*

Wideman, G., B.A. *Western Ontario*, M.S.W., Dip. Gerontology

Waterloo, Dip. Social Administration *Wilfrid Laurier*, Ph.D. *Memorial*

Field Education Coordinators

Davis-Whelan, J., B.A., B.S.W., M.S.W. *Memorial*

McConnell, S. B.A. *Carleton*, B.S.W. *Regina*, M.S.W. *Memorial*

Oliver, E., B.S.W. *Memorial*, M.S.W. *British Columbia*

Internship Coordinator

French, B., B.S.W., M.S.W. *Memorial*

Student Services Co-ordinators

Burt, I., B.S.W., M.S.W. *Memorial*

Hutchens, M.B., B.S.W., M.S.W. *Memorial*

Kelly, K., B.A., B.S.W., M.Ed. *Memorial*

Pollock, N., B.A. *Guelph*, B.S.W., M.S.W. *Carleton*

Manager of Finance and Administration

Canning, D. B.Ed. *Memorial*

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 School Description

A social work program at Memorial University of Newfoundland commenced in 1963 with the offering of a two-year diploma in public welfare. In 1965 the Bachelor of Arts (Social Welfare) degree was initiated, continuing until 1970 when the Bachelor of Social Work was established. The Bachelor of Social Work program is accredited by the Canadian Association of Social Work Education (CASWE). The program is currently accredited to 2014. The School also offers an undergraduate diploma and graduate degrees at the master and doctoral level.

Social Work courses are designed for delivery on a philosophical base of humanism and social justice. This is accomplished in an empowering teaching and learning environment, through the practice of anti-oppression principles, within the context of critical thinking. The curriculum in social work draws upon the substance and analytical processes of the social and behavioural sciences and of the humanities. It reflects Memorial University of Newfoundland and the School of Social Work's traditional commitments to serve the people of Newfoundland and Labrador within a global context.

Additional information regarding the School of Social Work is available at www.mun.ca/socwrk/home/.

Students must meet all regulations of the School of Social Work in addition to those stated in the general regulations. For information concerning fees and charges, admission/readmission to the University, and general academic regulations (undergraduate), refer to **UNIVERSITY REGULATIONS**.

2.1 Vision

The School of Social Work strives to strengthen human relationships and promote social justice through academic excellence.

2.2 Mission

The School of Social Work promotes social justice by providing social work education, conducting scholarly inquiry, disseminating knowledge and contributing to public policy and practice thereby addressing the needs and aspirations of the local and global communities with whom we collaborate and interact.

3 Description of Programs

All courses of the School are designated by the abbreviation SCWK.

3.1 Bachelor of Social Work

The Bachelor of Social Work is a full-time program that is offered as a first or a second degree program and is comprised of course work and two internships. The degree qualifies graduates for beginning professional practice in social work settings. The objectives of the

liberal education aspect of the undergraduate program includes the achievement of: general knowledge of people and nature, analytical and critical thinking and communication skills and knowledge of social, political and economic impacts in society. The objectives of the undergraduate program are to prepare students to: promote social justice and social well being and creatively challenge oppression; acquire and apply knowledge, skills, values, professional ethics and critical thinking abilities; recognize limitations and strengths as a beginning social work practitioner; integrate reflexively critical self-awareness; assume leadership in collaboration and interdisciplinary practice; utilize and participate in innovative and traditional inquiry and research models; creatively practice with diverse individuals and collectives; promote and critique the social work profession on, regional, provincial, national and global levels; commit to the process of lifelong learning; participate collaboratively and respectfully in innovative teaching and learning processes; and address issues of transition and crisis in diverse contexts (individuals, families, groups, communities, formal organizations and society).

The aim of the program is to develop social workers with generically based skills for working with individuals, families, communities, and groups. Students receive an education which prepares them to work in urban centres and rural settings. A special emphasis is placed on the importance of identifying local needs and developing the means of meeting these needs in the context of available resources.

There is a **Program Residency Requirement** for both the **First** and **Second** Degree programs requiring students to take specific courses on the St. John's campus. Although the majority of courses are taught on-campus, selected courses are occasionally taught by distance format.

3.1.1 Social Work Internships

- In addition to their course work, students are required to complete two supervised internships.
- Although consideration will be given to all factors affecting the location and type of internship, the final decision regarding placement rests with the School.
- In extenuating circumstances, internships may be offered in whole or in part outside the normal start and end dates of a semester.
- Students are responsible for all costs associated with internships including travel and accommodation.
- Placements for most students will include residence in a location away from urban centres.

3.2 Diploma in Social Work

Pending availability of resources, a program leading to the Diploma in Social Work may be designed for groups of students with particular needs. This program is only offered to cohorts and not individual students. Admission of individual students to a diploma program is competitive and selective. Information about diploma programs can be obtained by contacting the Dean of the School of Social Work.

4 Admission/Readmission Regulations for the Bachelor of Social Work

In addition to meeting the **UNIVERSITY REGULATIONS** students must meet the admission/readmission regulations for the School of Social Work.

4.1 General Information

1. Entry to programs is competitive for a limited number of placements.
2. Selection of candidates will be based on academic standing, relevant work/volunteer experience, and personal suitability for a career in social work.
3. The School of Social Work depends on the cooperation of community agencies external to the University to provide field internships and instruction to its students. Many of these agencies have a range of requirements, such as a Certificate of Conduct or a Child Protection Records Check, which must be completed before starting the internship. Students unable to meet these agencies' requirements may be delayed in their program or prevented from completing their program of study. Students are required to complete and update these requirements in a timely fashion and at their own expense. The procedures of any given agency may change from time to time and are beyond the control of the University.
4. The School may, at its discretion, give preference to applicants with special needs, provided that they have met the minimum numeric grade and course requirements for admission to the program.
5. Students applying for readmission must meet all admission and promotion requirements of the School of Social Work in effect for the year in which re-admission is being sought.

4.2 Application Forms and Deadlines

1. The Bachelor of Social Work as a First Degree program commences in the Fall semester. The Bachelor of Social Work as a Second Degree program will normally commence in the Winter semester. The deadline for application for admission is March 1. Students are encouraged to submit their applications as early as possible.
2. Applications received after the deadline, and incomplete applications will not be considered.
3. Application forms are available on-line at www.mun.ca/socwrk/undergraduate/apply.php or in person from the School and the Office of the Registrar. Application forms may also be obtained by writing the School of Social Work, Memorial University of Newfoundland, St. John's, NL, A1C 5S7 or the Office of the Registrar, Admissions Office, Memorial University of Newfoundland, St. John's, NL, A1C 5S7.
4. Applicants for readmission to the School of Social Work must submit a School of Social Work application to the Office of the Registrar by March 1 for Fall semester readmission, February 1 for Spring semester readmission, and October 1 for Winter semester readmission. Applications received after these deadlines will be considered only if a place is available in the School of Social Work.
5. All applications for admission or readmission must be submitted to the Office of the Registrar. A complete application package includes an application to the University (for those who have not attended Memorial University of Newfoundland in the two preceding semesters), an application to the School and any other required documentation.

4.3 Admission Requirements

4.3.1 First Degree Program

1. To be considered for admission to the Bachelor of Social Work program, applicants must have completed the 30 credit hours

outlined below by the end of the Winter semester for the year in which admission is being sought and must achieve an overall average of at least 65% in these courses and a grade of at least 65% in Social Work courses. These courses and credits must have been taken at Memorial University of Newfoundland or accepted for transfer credit from a recognized university or university college. The 30 credit hours are:

- six credit hours in English
 - Psychology 1000 and 1001
 - Sociology 1000
 - Social Work 1710
 - 12 credit hours in non-social work elective courses. No more than 6 of these credit hours can be taken from areas other than arts and science.
2. In addition, applicants must have achieved an average of at least 65% in the courses comprising the last 30 credit hours attempted by the end of the Winter semester for the year in which admission is being sought and for which a numeric grade has been assigned.
 3. In addition to other criteria used in the selection process, applicants for admission will be ranked according to their academic performance, which will be based on the cumulative average, together with the average on the last 30 credit hours for which a numeric grade was given and the overall average on the 30 prerequisite credit hours noted above.
 4. Successful candidates completing courses during the Spring semester will be required to meet the **Academic Requirements and Promotion Regulations** of the School of Social Work.
 5. A student will not be considered for admission if he/she has attempted and failed to receive a grade of 65% or higher in two or more SCWK courses or has failed to receive a grade of 65% or higher in the same social work course twice.

4.3.2 Second Degree Program

The Bachelor of Social Work as Second Degree is a 60 credit hour program intended for candidates who have completed the required courses, meet the academic performance requirements, and have extensive employment and/or formal volunteer experience. Priority is given to applicants who are bona fide residents of the province of Newfoundland and Labrador.

1. To be considered for admission to the Bachelor of Social Work as a Second Degree, individuals must have:
 - been awarded a Bachelor's Degree, or approved (by the end of the Winter semester preceding the academic year in which admission is being sought) for the award of a Bachelor's Degree from a university recognized by Memorial University of Newfoundland;
 - achieved a minimum average of at least 70% in the last 60 credit hours of undergraduate study attempted by the end of the Winter semester preceding the academic year in which admission is being sought and for which a numeric grade has been assigned;
 - completed the 30 credit hours outlined below by the end of the Winter semester preceding the academic year in which admission is being sought and achieved an overall average of at least 70% in these courses and a grade of at least 65% in Social Work courses. These courses and credits must have been taken at Memorial University of Newfoundland or accepted for transfer credit from a recognized university or university college. The 30 credit hours are:
 - Social Work 1710
 - Six credit hours in English
 - Psychology 2010 and 2011 or (2025 and 3 credit hours in Psychology at the 2000 level or above)
 - Six credit hours in Sociology of which 3 must be at the 2000 level or above
 - Nine credit hours at the 2000 level or above selected from the following: Anthropology, Economics, Folklore, Gender Studies (1000 level will be acceptable for Gender Studies only), Geography, History, Linguistics, Philosophy, Political Science, Psychology, and/or Sociology.
 - completed 300 hours of verified formal work/volunteer experience in human services
2. In addition to other criteria used in the selection process, applicants for admission will be ranked according to their academic performance.
3. A student will not be considered for admission if he/she has attempted and failed to receive a grade of 65% or higher in two or more SCWK courses or has failed to receive a grade of 65% or higher in the same social work course twice.
4. Successful candidates completing courses during the Spring and/or Fall semester(s) that precede the program commencement semester will be required to meet the **Academic Requirements and Promotion Regulations** of the School of Social Work.

4.3.3 Acceptance Procedures for Admission

1. Applicants for the First Degree program will normally be notified of admission decisions by early June. Approved applicants for this program option will be admitted in Fall semester only.
2. Applicants for the Second Degree program will normally be notified of admission decisions by early June. Approved applicants for this program option will normally be admitted in the Winter semester only.

4.3.4 Readmission Requirements

In addition to requirements specified in **Admission/Readmission Regulations for the Bachelor of Social Work**, applicants for readmission to the Bachelor of Social Work will be assessed for eligibility in accordance with Academic Requirements and Promotion Regulations, in effect for the year in which readmission is being sought, and contingent upon availability of a seat in the semester for which readmission is sought. Students who are readmitted to the program following a five-year absence will be required to do remedial work upon the recommendation of the Committee on Undergraduate Studies. Remedial work may include the repetition of classroom and/or internship courses.

5 Program Regulations

5.1 Bachelor of Social Work (as a First Degree)

1. The 120 credit hour Bachelor of Social Work (as a First Degree) requires, 48 non-SCWK credit hours and 72 SCWK credit hours that include two internships as defined in **Table 1 Bachelor of Social Work (as a First Degree)**.
2. Following admission to Year 2, credit hours shall normally be taken in the sequence as set out in **Table 1 Bachelor of Social Work (as a First Degree)**. Students wishing to change the sequence and/or reduce the course load specified for Years 2 - 4 must receive written approval from the Dean of the School. A change in course sequence may result in an extension to the length of time normally required to complete the program.
3. Students must complete the application for Social Work internship placement three months prior to the semester in which the internship begins.

Table 1 Bachelor of Social Work (as a First Degree)

Year / Term	Required Courses	Elective Courses
Year 1 Fall and Winter	6 credit hours in English Psychology 1000 and 1001 Sociology 1000 SCWK 1710	12 credit hours in non-social work elective courses. No more than 6 of these credit hours can be taken from areas other than arts and science.
Year 2 Fall	Psychology 2010 or Psychology 2011 One of Political Science 1010, 2600, 2800, Sociology 2230 or 2240 SCWK 2211 SCWK 2320 SCWK 2711	
Year 2 Winter	One of Philosophy 2551, 2552, 2553, or 2591 Psychology 2010 or Psychology 2011 (whichever one has not been taken during Fall above) 3 credit hours in Sociology at the 2000 level or above SCWK 2321 SCWK 2520	
Year 3 Fall	SCWK 3300 SCWK 3311	
Year 3 Winter	One of Sociology 2250, 2270, 3290 or 3318 One of Anthropology 3305 or Gender Studies 1000 SCWK 3221 SCWK 3521 SCWK 3720	
Year 4 Fall	SCWK 4312 SCWK 4313 SCWK 4314 SCWK 4410	3 credit hours from: SCWK 4317 or 4620
Year 4 Winter	SCWK 4302	3 credit hours from: SCWK 4321, 4322, 4323 or SCWK 4820-4829

5.1.1 Program Residency Requirements

Students shall be required to successfully complete all Social Work courses on the St. John's campus except for: SCWK 1710, 3300, 3311, 4302, 4321, 4322, 4323, and 4820-29.

5.2 Bachelor of Social Work (as a Second Degree)

1. The 60 credit hour Bachelor of Social Work (as a Second Degree) requires 60 SCWK credit hours including two internships as defined in **Table 2 Bachelor of Social Work (as a Second Degree)**.
2. Following admission, credit hours shall normally be taken in the sequence as set out in **Table 2 Bachelor of Social Work (as a Second Degree)**. Students wishing to change the sequence and/or reduce the course load specified for semesters 1-4 must receive prior written approval from the Dean of the School. A change in course sequence may result in an extension to the length of time normally required to complete the program.
3. Students must complete the application for Social Work internship placement three months prior to the semester in which the internship begins.

Table 2 Bachelor of Social Work (as a Second Degree)

Year / Term	Required Courses
Year 1 Semester 1	SCWK 2211 SCWK 2320 SCWK 2520 SCWK 2711 SCWK 4410
Year 1 Semester 2	SCWK 2321 SCWK 3720 SCWK 4312 SCWK 4313 SCWK 4314
Year 1 Semester 3	SCWK 3300 SCWK 3311
Year 2 Semester 4	SCWK 3521 SCWK 4302

5.2.1 Program Residency Requirements

Students shall be required to successfully complete all Social Work courses on the St. John's campus except for: SCWK 3300, 3311, 3521, and 4302.

6 Academic Requirements and Promotion Regulations

6.1 General Information

1. The Committee on Undergraduate Studies will determine a student's promotion status at the end of each academic term.
2. These regulations shall apply from the date of the application for admission/re-admission to the program to the completion of the program.
3. In addition to meeting the academic requirements and promotion regulations for the School all students must meet the general academic regulations (undergraduate). For further information refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate)**.

6.2 Promotion Status

A student's promotion status at the end of each term will be in one of the following three categories:

6.2.1 Clear Promotion

Clear Promotion means that a student can proceed to the next term without restrictions. Clear Promotion will be given to a student

- who has completed the academic term with an overall average of at least 65% and with a numeric grade of at least 65% in each SCWK course.
- who has completed an internship with a letter grade of PAS (pass).
- who has maintained professional behaviour consistent with the current Code of Ethics of the Canadian Association of Social Workers (CASW) which is available at www.casw-acts.ca/ and the Suitability Policy of the School of Social Work which is available at www.mun.ca/socwrk/undergraduate/fieldBSW/Appendix_SF-2.pdf.

6.2.2 Probationary Promotion

Probationary Promotion means that a student has not received a **Clear Promotion** and must meet certain conditions to obtain Clear Promotion. Probationary Promotion will be given to a student

- who has not obtained an overall term average of at least 65%. The student will be issued a letter of warning and must obtain an overall average of at least 65% in the subsequent academic term.
- who has not obtained a numeric grade of at least 65% in each required SCWK course. The student must repeat the course(s) within three academic terms from the unsuccessful completion and obtain a numeric grade of at least 65%. The student will not be permitted to repeat more than two SCWK courses in the program and will subsequently be denied promotion should she/he receive less than 65% in the same social work course twice.
- who has not obtained a numeric grade of at least 65% in each elective SCWK course. The student must successfully complete this course or another appropriate SCWK elective with a numeric grade of at least 65% before completion of the program. The student will not be permitted to repeat more than two SCWK courses in the program and will subsequently be denied promotion should she/he receive less than 65% in the same social work course twice.
- who has voluntarily withdrawn from an internship before its completion with the prior approval of the Field Administrator and the Committee on Undergraduate Studies. In addition to the designation Probationary Promotion, the student will also receive a letter

grade of DR (drop) for that internship. The student will be required to successfully complete another internship before continuing in the program.

- who behaves in a manner that breaches the current Code of Ethics of the Canadian Association of Social Workers which is available at www.casw-acts.ca/ and/or the Suitability Policy of the School of Social Work but for which the School considers that withdrawal from the program is not warranted. The Suitability Policy of the School of Social Work is available at www.mun.ca/socwrk/undergraduate/fieldBSW/Appendix_SF-2.pdf.

6.2.3 Promotion Denied

Promotion Denied means that a student has not received either a **Clear Promotion** or a **Probationary Promotion** and must withdraw from the School. A student's eligibility for readmission is governed by conditions detailed below in **Other Information**. Promotion denied will be given to a student:

- who has not met the conditions of his/her probation.
- who has received a numeric grade of less than 65% in more than two SCWK courses.
- who has received a numeric grade of less than 65% in the same social work course twice.
- who has withdrawn from an internship without the prior approval of the Field Administrator and the Committee on Undergraduate Studies.
- who has received a letter grade of FAL (fail) in an internship.
- who behaves in a manner that breaches the current Code of Ethics of the Canadian Association of Social Workers which is available at www.casw-acts.ca/ and/or the Suitability Policy of the School of Social Work and for which the School considers that withdrawal from the program is warranted. The Suitability Policy of the School of Social Work is available at www.mun.ca/socwrk/undergraduate/fieldBSW/Appendix_SF-2.pdf.

6.2.4 Other Information

1. A student will not be eligible for consideration for admission or readmission to the School if he/she has:
 - received a numeric grade of less than 65% in more than two SCWK courses in the entire program, or received a numeric grade of less than 65% in the same SCWK course twice;
 - received a letter grade of FAL (fail) in more than one internship; or
 - behaved in a manner that breaches the current Code of Ethics of the Canadian Association of Social Workers which is available at www.casw-acts.ca/ and/or the Suitability Policy of the School of Social Work and for which the School considers that withdrawal from the program is warranted. The Suitability Policy of the School of Social Work is available at www.mun.ca/socwrk/undergraduate/fieldBSW/Appendix_SF-2.pdf.
2. A student who has been denied promotion and has had to withdraw from the School but is eligible for consideration of readmission to the School
 - must withdraw from the School for two academic terms before reapplying; and
 - will be permitted only one readmission to the School.

6.3 Leave of Absence

1. Any student who wishes to withdraw from the program and to retain his/her status in the program may do so only with the written approval of the Committee on Undergraduate Studies and for a maximum period of one academic year. A student who wishes to resume his/her studies within this period must notify the Dean in writing three months prior to the beginning of the term in which he/she wishes to continue his/her program. Students who do not return to the program at the end of their approved leave of absence will be deemed to have left the program.

6.4 Student Withdrawal

1. A student may be required to withdraw from the program at any time, on the recommendation of the Committee on Undergraduate Studies, if the student is deemed to have behaved in a manner that breaches the Canadian Association of Social Workers Code of Ethics and/or the School of Social Work Suitability Policy and for which the committee considers that withdrawal from the program is warranted. The Committee on Undergraduate Studies may determine the withdrawal to be conditional or permanent depending on the circumstances precipitating the action.
2. In the case of a conditional withdrawal, the Committee on Undergraduate Studies will determine the duration of the withdrawal and any conditions the student must fulfill during the withdrawal. Upon successful completion of the conditions, the student may be permitted re-entry to the program. Failure to meet conditions may result in a permanent withdrawal.
3. In the case of a permanent withdrawal, the student will not be eligible for future admission/readmission to the Bachelor of Social Work program.

7 Waiver of School Regulations

Every student has the right to request waiver of School regulations. A student wishing waiver of University academic regulations should refer to **UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Waiver of Regulations**.

7.1 General Information

1. The School reserves the right in special circumstances to modify, alter, or waive any School regulation in its application to individual students where merit and equity so warrant in the judgment of the Committee on Undergraduate Studies of the School.
2. All requests must be submitted to the Committee on Undergraduate Studies of the School for consideration.
3. A student requesting a waiver of a School regulation must submit the request in writing to the Chair of the Committee on Undergraduate Studies. Medical and/or other documentation to substantiate the request must be provided.
4. Any waiver granted does not reduce the total number of credit hours required for the degree.

8 Appeal of Regulations

1. Any student whose request for waiver of School regulations has been denied has the right to appeal. For further information refer to

UNIVERSITY REGULATIONS - General Academic Regulations (Undergraduate) - Appeal of Regulations.

2. An applicant who has been denied admission has the right to appeal this decision of the Admissions Committee if it is felt by the applicant that the decision was reached on grounds other than those outlined in **Admission/Readmission Regulations for the Bachelor of Social Work**. The appeal should be made in writing within fourteen days of the notification of the decision and should be directed to the Dean of the School. The letter should state clearly and fully the grounds for the appeal. If the Dean of the School, in consultation with the Registrar, judges the grounds to be sufficient, the formal appeals mechanism will be initiated.

9 Course Descriptions

In accordance with Senate's *Policy Regarding Inactive Courses*, the course descriptions for courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year have been removed from the following listing. For information about any of these inactive courses, please contact the Dean of the School.

All courses of the School are designated by SCWK.

1710 Social Work Philosophy and Practice provides an overview of the historical development, philosophical orientation, basic values, principles and knowledge base, and fields of practice of the profession. The course will examine critical social problems that impact societies with an emphasis on the quest for social justice at local, national and global levels.

CR: the former SCWK 2700

2211 Diverse Theories for Social Work Practice provides an overview of critical and practice theories that explain problems and guide the change process. The course will involve students in a critical analysis of a broad range of theories including: Critical theories such as structural, feminist, Marxist, anti-racist, aboriginal, queer, & anti-oppressive practice; modern theories such as interactional, systems, ecological cognitive & crisis theory/intervention; postmodern theories such as solution focussed and narrative; and Macro practice, social action, and community organization.

CO: SCWK 2320 and 2711

PR: SCWK 1710 or the former SCWK 2700

2320 Social Work Knowledge and Skills for Assessment and Intervention introduces beginning skills for social work practice. The relevance of relationship based approach, a strengths perspective and an anti-oppressive stance will be considered as students acquire biopsychosocial assessment and interviewing skills. Attention is given to self-awareness, professional identity and a wide range of beginning counselling skills with diverse populations and situations such as: Aboriginal people, involuntary clients, suicide risk, domestic violence, clients in crisis and children at risk.

CO: SCWK 2211 and 2711

CR: the former SCWK 3320, the former 3321 and the former 4310

PR: SCWK 1710 or the former SCWK 2700

2321 Social Work Knowledge and Skills for Personal and Social Change addresses knowledge, skills and competencies that enable the social worker to facilitate positive change within the middle and end stages of intervention. Emphasis will be given to a range of current best known practices within the context of clinical and community applications, promotion of social justice, strengths and critical thinking. General practice approaches that may be applied with individuals, families and communities will be emphasized.

CR: the former SCWK 3421

PR: SCWK 2211, 2320 and 2711

2520 Social Work: Critical Analysis of Social and Health Policy engages students in critical analysis of local and national social and health policy development from a social work perspective. The course explores topics that are relevant to direct service provision such as: the influence of historical context on policy, policy development, interactions among federal, provincial and local governments that influence policy and leadership and advocates roles of social workers in program development in a diverse and changing environment.

CR: the former SCWK 2510 and 2710

PR: SCWK 2211, 2320 and 2711 or admission to the second degree program option

2711 Social Justice and Social Work Practice explores human rights from global perspective and examines social responsibility, the nature of oppression and marginalization and strategies to promote social justice and prevent injustice. Reflective practice principles and experiential activities will form the basis for examining use of self and the relevance of social location, and the application of: critical theoretical perspectives, critical empathy and ethical evaluation for anti-oppressive practice at the individual and structural/organizational level.

CO: SCWK 2211 and 2320

PR: SCWK 1710 or the former SCWK 2700

3221 Social Impacts on Human Development addresses how theories, concepts and information related to human development must be considered in the context of social issues and impacts in order to inform social work practice with vulnerable populations. The impact of issues such

as violence, addictions, poverty, trauma and oppression are examined as are strengths and resilience of human beings. Strategies to address social impacts on human development are explored.

CO: SCWK 3521 and 3720

CR: the former SCWK 3211 and the former 3220

PR: SCWK 3300 and 3311

3230 Cultural Camp - inactive course

3300 Social Work Internship 1 is a 350 hour supervised field experience that provides students with opportunities to apply social work principles, theories and skills to work with clients and communities. The field experience is designed to develop: professional use of self, beginning ability to implement planned interventions with diverse populations and an appreciation for social justice activities.

CH: 12

CO: SCWK 3311

CR: the former SCWK 4315, 4316, 4300, 4325 and 4326

PR: successful completion of all designated Year 2 courses for the first degree program option; or admission to the second degree program option and successful completion of SCWK 2321, 3720, 4312, 4313, and 4314

3310 Introduction to Forensic and Police Interviewing is designed to teach applied skills for police and forensic interviewing. Content includes general skills of relationship building and interviewing to enable reliable and valid information to be obtained, as well as to help stabilize crises and reduce risks in dangerous situations. The course includes specific content on interviewing victims, witnesses, suspects, offenders and other collaterals. The course will also introduce the student to interviewing difficult persons such as those experiencing crisis or trauma and those who are impaired or who have mental health problems. Students are tested on both knowledge and practice skills related to police and forensic interviewing.

PR: restricted to students admitted to the Diploma Program in Police

Studies and who remain in good standing as recruit cadets of the

Royal Newfoundland Constabulary

UL: not applicable to any programs offered by the School of Social Work

3311 Social Work Knowledge and Skills for Integration of Theory and Practice focuses on application of selected models and methods of practice. The course explores links between theory and practice through critical consideration of: the influence of agency and community, the value of theory and knowledge, the role of self awareness, social location and practice skills. Topics to be explored include: documentation, support/resource counselling, advocacy, self care, vicarious trauma, professional identity, community work, interdisciplinary practice, group work, ethics and consultation.

CO: SCWK 3300

CR: the former SCWK 4310 and 4311

PR: successful completion of all designated Year 2 courses for the first degree program option; or admission to the second degree program option

3511 Aboriginal People and Social Policy - inactive course

3521 Social Work Organizational Development for Community Services examines policy development and change in human services organizations and their administration. Management and organizational concepts suitable for the administration of social policies and programs are addressed as are ethical and ideological issues for social workers on human service teams. A focus on beginning skills in administration is included for the social worker within a management and leadership context in human services organizations.

CO: SCWK 3221 and 3720; or SCWK 4302

CR: the former SCWK 3110, the former 3510 and 4111

PR: SCWK 3300 and 3311

3530 Aboriginal Social Development - inactive course

3720 Ethical and Legal Issues in Social Work Practice examines ethical theories, decision - making models and key legislation in a variety of areas including child welfare, youth justice, privacy, health, human rights to resolve dilemmas in practice. Components of legislation and the Social Work Code of Ethics are analysed to determine approaches to practice dilemmas. Consideration and critical analysis of frameworks for decision making will lead to a personal model for practice choices.

CO: SCWK 3221 and 3521; or SCWK 2321, 4312, 4313, and 4314

CR: the former SCWK 5720

PR: SCWK 3300 and 3311 or admission to the second degree program option

4302 Social Work Internship 2 is a 350 hour supervised field experience that provides students with opportunities to apply social work principles, knowledge and skills that demonstrates the capacity for independent practice at micro and macro levels. Emphasis is on developing strong analytical abilities, applying enhanced practice skills, mastering a variety of social work roles, implementing strategies that impact social justice and making professional judgments in increasingly complex situations.

CH: 12

CO: either SCWK 4321, 4322 or 4323 or one of SCWK 4820-4829; or SCWK 3521

CR: the former SCWK 5300, 5301, and 5315-5319

PR: SCWK 4312, 4313, 4314, 4410 and either 4317 or 4620 and successful completion of all designated Year 3 courses or admission to the second degree program option and successful completion of 3300 and 3311

4312 Social Work Knowledge and Skills for Community Development emphasizes theory and practice of community organizing and community development within the context of social justice. Frameworks for community practice are critically analysed through examination of ethical dilemmas, accountability issues, practice skills, leadership and other roles. Urban, rural and cultural differences are considered in relation to their influence on effective community organizing and development work.

CO: SCWK 4313, 4314 and 4410; or SCWK 2321, 3720, 4313 and 4314

CR: the former SCWK 5322

PR: SCWK 3221, 3521 and 3720 or admission to the second degree program option

4313 Social Work Knowledge and Skills for Group and Team Work introduces students to social work methods and skills in group practice and team work. The design and implementation of diverse group types, evaluative models and the parallels between group and team functions are explored. The characteristics and challenges of interdisciplinary team work are considered as well as effective strategies and unique roles that social workers can contribute for effective team collaboration.

CO: SCWK 4312, 4314 and 4410; or SCWK 2321, 3720, 4312 and 4314

CR: the former SCWK 4320

PR: SCWK 3221, 3521 and 3720 or admission to the second degree program option

4314 Social Work Knowledge and Skills for Practice with Families prepares students to offer direct services to families through increasing their knowledge of family functioning and their competence in family assessment and intervention. Critical analysis of models of family intervention and exploration of ethical issues form the basis for application of selected approaches to family work including: structural therapy, solution focussed approach and crisis intervention.

CO: SCWK 4312, 4313 and 4410; or SCWK 2321, 3720, 4312 and 4313

CR: the former SCWK 5325

PR: SCWK 3221, 3521 and 3720 or admission to the second degree program option

4317 Field of Practice: Child Welfare Prevention, Crisis Intervention and Protection examines legislation that protects the rights of children, best practice in child welfare and care and protection of children within a community context. Social work intervention with complex issues such as: family violence, poverty, cultural influences, addictions and mental health impacts are explored through feminist, aboriginal, empowerment and anti-oppressive perspectives. Continuity of care, permanency planning and the impact of separation are addressed through critical analyse of child welfare programs, and care giving models.

CO: SCWK 4312, 4313, 4314 and 4410

CR: the former SCWK 4614

PR: SCWK 3221, 3521 and 3720

4321 Field of Practice: Social Work in Child Abuse and Protection is

aimed at developing knowledge and social work skills necessary for intake, crisis intervention, assessment, family support, removal, community placement, family reunification, and amelioration, within the context of social justice and the best interest of those most vulnerable for maltreatment and oppression. It addresses child-youth neglect, physical abuse, sexual abuse, emotional abuse, exploitation, problems, risks, needs and harm and includes trauma and developmental impacts.

CO: SCWK 4302

CR: the former SCWK 5328

PR: SCWK 4312, 4313, 4314 and 4410

4322 Field of Practice: Social Work in Gerontology reviews aging from a biopsychosocial perspective with an emphasis on the strengths of seniors and the impact of oppression on the lives of the elderly. The course will explore legislation, policies, societal trends and elder abuse, and consider the social work role in developing strategies for healthy aging and service provision for seniors.

CO: SCWK 4302

CR: the former SCWK 4615 and 5615

PR: SCWK 4312, 4313, 4314 and 4410

4323 Field of Practice: Social Work in Addictions is aimed at developing knowledge skills, and beginning competence, necessary for assessment and intervention with populations experiencing problems and risks associated with the use and abuse of chemicals and non-chemical addictions throughout the lifespan. Themes addressed include: the oppression of addictions; social determinants of addictions, the social worker's role in the continuum of care; strengths; the special needs of women, aboriginal, and GLBT populations.

CO: SCWK 4302

CR: the former SCWK 4616

PR: SCWK 4312, 4313, 4314 and 4410

4410 Applied Research and Evaluation for Social Work Practice teaches theories, concepts and methods of systematic inquiry and its relationship to professional social work judgment and action. The contribution of applied research to social justice, community based inquiry and accountability and evidence based practice is emphasized. Topics to be explored include: quantitative, qualitative, action and evaluative approaches to systematic inquiry for social work practice; ethical considerations in social work research.

CO: SCWK 4312, 4313 and 4314; or SCWK 2211, 2320, 2520, and 2711

CR: the former SCWK 4420 and 4421

PR: SCWK 3221, 3521 and 3720 or admission to the second degree program option

4620 Field of Practice: Social Work in Interdisciplinary Mental Health and Health Services provides an overview of mental health and illness, the impact on people and communities and social work interventions within an interdisciplinary community context. The oppression of illness, disability and mental health problems across the lifespan is considered as well as the role of social work in the continuum of care. Topics include: mental health, health, mental illness, disability, social determinants of health, social movements and advocacy.

CO: SCWK 4312, 4313, 4314 and 4410

CR: the former SCWK 4610, 5610 and 5613

PR: SCWK 3221, 3521 and 3720

4820-4829 Selected Topics in Social Work may be offered by the School. Students should consult the School for selected topics being offered in a given semester.

CO: SCWK 4302

PR: SCWK 4312, 4313, 4314 and 4410

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

SCHOOL OF GRADUATE STUDIES

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Archived Previous Calendar
 Current University Calendar available at:
<https://www.mun.ca/university-calendar>

www.mun.ca/sgs/

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Lawlor, S., B.Comm. *Memorial*

Administrative Staff Specialist

Fagan, N.

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 General Information and Regulations Governing All Graduate Students

2.1 School Description

Memorial University of Newfoundland's School of Graduate Studies (SGS) is home to over 3,000 graduate students enrolled in over 100 graduate diploma, and master's and doctoral degree programs.

The School is a central agency responsible for the collection, maintenance, and distribution of materials on graduate students. It maintains graduate files and administers graduate applications, admissions, comprehensive examinations, thesis examinations, and doctoral defences. SGS is also responsible for registrarial functions, graduate enrolment management, and recruitment, and administers graduate student funding including assistantships, external and internal scholarships, baseline fellowships, supervisor support, and Tricouncil global payments.

The School assists academic units in developing new program proposals and administers their approval. Through its Academic Council, SGS also provides a forum for representatives from all faculties, schools, and the Graduate Students' Union to discuss matters pertaining to graduate education. The Council ensures maintenance of standards across all graduate programs by considering policies relating to graduate studies, approving regulation changes and appeals, receiving reports from standing and ad hoc committees, and making recommendations on matters affecting graduate studies.

Additional information regarding the School of Graduate Studies is available at www.mun.ca/sgs/.

Students must meet all regulations of the School in addition to the **General Regulations**, the Degree Regulations and any additional requirements of the appropriate Department. For information concerning fees and charges refer to **Fees and Charges, UNIVERSITY REGULATIONS**.

2.2 Programs

The following graduate diploma and degree programs are offered by Memorial University of Newfoundland. Interdisciplinary study is encouraged by the University, and prospective applicants should make enquiries about their interests from all the areas of study concerned.

2.2.1 Graduate Diplomas

Clinical Epidemiology
Community Health and Humanities
Fisheries Resource Management
Post-Secondary Studies (Health Professional Education)
Post Masters Nurse Practitioner

2.2.2 Graduate Degrees

Master of Applied Science
Master of Applied Social Psychology (Co-operative)
Master of Applied Statistics
Master of Arts
Master of Arts and Education (Education and Francophone Literatures and Cultures)
Master of Business Administration
Master of Education
Master of Employment Relations
Master of Engineering
Master of Engineering Management
Master of Environmental Science
Master of Gender Studies
Master of Marine Studies (Fisheries Resource Management)
Master of Maritime Management
Master of Music
Master of Nursing
Master of Philosophy
Master of Physical Education
Master of Public Health
Master of Science
Master of Science in Kinesiology
Master of Science in Medicine
Master of Science in Pharmacy
Master of Social Work

Master of Technology Management
 Doctor of Philosophy
 Doctor of Psychology

2.3 Definition and Explanation of Terms Used in this Calendar

2.3.1 Special/Selected Topics Courses

Where a block of courses has been approved under a general heading such as selected topics, special areas, directed readings or like heading, each new course offered from that block of courses shall be approved in advance by the Faculty/School Council (or delegated Graduate Studies Committee). To ensure an orderly use of the courses and non-duplication between course numbers, titles and contents, the Council (or Committee) shall require the same quality and type of information as is needed for the approval of a regular course. (*Consult the School of Graduate Studies or Deputy Registrar for administrative procedures.*)

2.3.2 Dean of Graduate Studies

In all regulations following, reference to "the Dean" refers specifically to the Dean of Graduate Studies.

2.3.3 Credit Hour

A credit hour is the measure used to reflect the relative weight of a given course towards the fulfilment of appropriate degree, diploma, certificate, major, minor, or other program requirements. Normally, a course has a credit value of 3 credit hours. A weight of one credit hour normally means that the course meets for lectures one hour per week for the duration of a semester or two hours per week for the duration of a session. The number of hours of required instruction, outside of lecture time, such as laboratory instruction, tutorials, etc. may or may not impact on the number of credit hours assigned to a particular course and academic units may recommend to the Senate a greater or lesser whole number of credit hours for a particular course.

2.3.4 Graduate Course

1. A graduate course comprises a unit/units of work in a particular subject normally extending through one semester, the completion of which carries credit toward the fulfilment of the requirements for a postbaccalaureate degree, diploma or certificate.
2. Accelerated courses are not normally permissible in graduate programs.
3. Courses required as part of a graduate student's program are known as program courses. Tuition for such courses is covered by the semester fee.
4. Courses which are not required as part of a graduate student's program are known as non-program courses. Students registering for such courses will be required to pay the appropriate per-course fee.

2.3.5 Policy Governing the Auditing of Courses

1. In order to audit any course, an individual must receive permission from the instructor in that course, the Supervisor/advisor and the administrative Head of the unit in which the course is offered. Matters to be considered shall include class size, impact on students registered for credit and other factors judged relevant by the academic unit; and permission cannot be given until the number of registrations for credit is known.
2. Individuals auditing courses shall limit their participation to that deemed appropriate by the instructor; auditors are not permitted to write formal examinations, nor to have their work formally assessed.
3. Students who require a testimonial of audition may request the same from the instructor of the course. Students will not register for audit courses nor will a record of audit courses appear on students' transcripts.

2.3.6 Semester

A semester means a period of approximately 14 consecutive weeks during which the University is in regular session and in which period there are at least 12 teaching weeks as defined by the Senate. Normally the Fall semester commences in early September, the Winter semester in early January, and the Spring semester in early May.

2.3.7 Academic Year

The academic year is from September 1 of one year to August 31 of the following year.

2.3.8 Graduate Student

A graduate student is one who has been admitted to a graduate degree or a graduate diploma program.

A full-time graduate student is one who registers as such, devotes full time to his or her academic program and may not commit more than 24 hours a week working time, including teaching assistant or research assistant duties, to matters other than the degree program.

A part-time graduate student is one who is registered for the duration of a semester and is not classified as full-time.

2.3.9 Visiting Research Student

1. A student who is registered in good standing in a graduate program at another recognized institution who comes to Memorial University of Newfoundland to conduct research under the supervision of Memorial University of Newfoundland faculty members is considered to be a visiting research student. In order to obtain access to University resources, and where applicable, a study permit, such a student will be required to register each semester of their visit for GRAD 9900 using a Course Change Form.
2. To be eligible to register, a visiting research student must submit an Application for Admission form to the School of Graduate Studies, accompanied by: a) a letter from their home institution verifying graduate student status, and b) a letter from the host faculty member confirming the duration of the visit. The student will then be admitted to the School of Graduate Studies to a "non-degree" program.
3. Visiting research students will be exempt from tuition fees. However, all visiting research students will be required, as a condition of registration, to purchase health insurance (international students should contact the International Student Advisor, whereas Canadian citizens or permanent residents of Canada should contact the Graduate Students' Union for more information). If a visiting research student wishes to register for a course while at Memorial University of Newfoundland, s/he must meet the University admission requirements and pay the undergraduate per course fee as indicated under the **UNIVERSITY REGULATIONS - Fees**

and Charges in the University Calendar.

Note: A student enrolled in a graduate program at another university who wishes to complete courses at Memorial University of Newfoundland for transfer of credit to his/her home institution is not considered to be a visiting research student under this definition. Such students should apply to the Office of the Registrar for admission to the University, and if admitted, will be governed by **GENERAL ACADEMIC REGULATIONS**. Fees will be assessed in accordance with the fee schedule for undergraduate courses as indicated under the **UNIVERSITY REGULATIONS - Fees and Charges** in the University Calendar.

2.3.10 Program

1. A program, whether it comprises courses only, courses and comprehensive examination, or courses, internship, project, thesis research, paper folio is defined for each graduate student in accordance with Departmental and University Regulations. Each program of study is recommended by the appropriate academic unit, and must be approved in writing by the Dean of Graduate Studies before the beginning of the graduate student's second year of study.
2. Responsibility for the administration of the program shall rest with the Dean acting on behalf of the School.

Note: The following general statements concerning admission and Degree requirements should be supplemented by the detailed regulations governing each program.

2.3.11 Double Degree Programs

1. Memorial University of Newfoundland offers graduate students the opportunity to carry out a joint research project through a cotutelle agreement between Memorial University of Newfoundland and another recognized institution. The student would be expected to participate in research and fulfill degree requirements at both institutions. Students who successfully complete all program requirements would earn doctoral degrees from both institutions. Memorial University of Newfoundland's Guidelines for Cotutelle Agreements, approved by the Academic Council of the School of Graduate Studies, provides information on the details on the method of establishing such an agreement and program.
2. Upon successful completion of the program, Memorial University of Newfoundland and the cooperating institution will each issue its own doctoral degree certificate. On the certificate and subsequently on the university transcript, the following notation will be added: "This Ph.D. was awarded within a cotutelle agreement. The student was jointly enrolled at University XYZ and Memorial University of Newfoundland and successfully completed the degree requirements of both institutions."
3. Graduate students interested in this type of program should contact the School of Graduate Studies for further information.

3 General Regulations

3.1 Qualifications for Admission

3.1.1 Graduate Diploma Programs

To be considered for admission to a Graduate Diploma program, the minimum requirements will normally be a second-class degree from a university of recognized standing, in an appropriate area of study.

A candidate admitted to a Graduate Diploma program, who has demonstrated to the satisfaction of the Faculty/School/Department concerned their ability to pursue research at the master's level, may be permitted subsequently to transfer his/her candidature to that of a master's in the affiliated program area and will thereafter be awarded only the master's at the end of his/her candidature.

3.1.2 Master's Programs

To be considered for admission to a Master's program, the minimum requirements will normally be a second-class degree from a university of recognized standing, in an appropriate area of study.

3.1.3 Ph.D. and Psy.D. Programs

1. To be considered for admission to a Ph.D. program, the minimum requirements will normally be a Master's degree from a university of recognized standing, in an appropriate area of study. Other students may be considered for admission to a Ph.D. program provided that:
 - a. they have been registered in a Master's program for a minimum of 12 months, and have demonstrated to the satisfaction of the Faculty/School/Department concerned their ability to pursue research at the Doctoral level. Such transfer should take place no later than the 5th semester of the student's Master's program as indicated under **UNIVERSITY REGULATIONS - Fees and Charges** in the University Calendar; or
 - b. they hold a Bachelor's Degree with Honours, or equivalent, from a university of recognized standing, and that the Faculty/School/Department is satisfied of the students' ability to pursue research at the Doctoral level.
2. To be considered for admission to the Psy.D. program, the minimum requirements will normally be an undergraduate honours degree in Psychology that includes senior courses as indicated under the **Regulations Governing the Degree of Doctor of Psychology**.

3.1.4 Applicants Not Meeting Qualifications

Only in exceptional circumstances, and only upon the recommendation of the Faculty/School/Department concerned, will the Dean consider applicants who do not meet the requirements outlined above under **Qualifications for Admission**.

3.1.5 English Proficiency Requirements

Since English is the primary language of instruction at this University, all applicants seeking admission to the School of Graduate Studies must possess an adequate knowledge of written and spoken English as a prerequisite to admission. Regardless of country of origin or of citizenship status, applicants will be required to demonstrate proficiency in the English language. This demonstration may take one of the following forms:

1. Successful completion of the equivalent of three years of full-time instruction in an English language secondary institution as recognized by Memorial University of Newfoundland including successful completion of at least two courses in English Language and/or Literature at the Grade XII (or equivalent) level. Please note that these courses must be other than English as a Second Language (E.S.L.) courses.
2. Successful completion of a baccalaureate degree from a recognized University where English is the language of instruction and from

which transfer of credit may be allowed by Memorial University of Newfoundland.

3. Successful completion of a post-graduate degree program at a recognized University where English is the language of instruction and from which transfer of credit may be allowed by Memorial University of Newfoundland.
4. Submission of official results of the Test of English as a Foreign Language (TOEFL) with a paper-based score of 550 (or higher)/computer-based score of 213 (or higher) or Internet-based with a score of 80 (or higher) and the Test of Written English (TWE) with a score of 4 (or higher).
5. Submission of the official results of the Michigan Test of English Proficiency with a score of 85% (or higher).
6. Submission of the official results of the English Language Testing Service (ELTS) Test with an average band score of 6.5 or higher.
7. Submission of official results of the Carleton Academic English Language (CAEL) Assessment with a minimum score of between 50 and 60 in each of four bands, with at least 2 band scores of 60.
8. Submission of official results of the Canadian Test of English for Scholars and Trainees (CanTEST) with a Band Level 4.5 in the listening comprehension and reading comprehension sub-tests and a score of 4 in writing.
9. Only in exceptional circumstances and only upon the recommendation of the Department/Faculty/School concerned, will the Dean consider applicants who do not meet one of the requirements listed in 1-8 above.

3.1.6 Additional Requirements

Particular Departments/Faculties/Schools may require greater strength in English communicative skills than is indicated by the achievement of minimum scores outlined in 4., 5., 6., 7., and 8. above. Any such additional requirements are detailed in the appropriate section of the Calendar.

3.1.7 English Language Requirements Subsequent to Admission

1. Students who have been admitted under **English Proficiency Requirements**, Clauses 4. - 8. above, will be required to take an English language placement test on arrival at Memorial University of Newfoundland. On the basis of the test results, students may be required to complete successfully a course of language study designed to bring their English, in any or all of listening, speaking, reading, and writing, to a level required for graduate studies. A final assessment of the students' proficiency in these areas will normally be made no later than the end of the third semester following their first registration in the School of Graduate Studies. As a result of this assessment, and in consultation with the student's academic unit and the Department of English Language and Literature, there may be a recommendation for termination of the student's program.
2. Notwithstanding **Additional Requirements** above, if a student's Department is not satisfied with the student's ability to communicate in English, then the student may be required to complete successfully the relevant component(s) of the course of study referred to in **Additional Requirements**. The Department will be required to take this action within three semesters of the student's admission to a graduate program. At the end of this period the Department may recommend, but not require this procedure.

Note: Information regarding the TOEFL program is available on-line at www.toeflgoanywhere.org/. Information regarding the Michigan Test of English is available on-line at www.michigan-test.com. Information regarding the ELTS Test is available on-line at www.ielts.org.

3.1.8 Foreign Degree Transcripts

Students who have completed undergraduate programs at universities which issue documents in languages other than English or French shall submit notarized English translations of all supporting documentation, including, but not limited to, transcripts, degrees, and diplomas.

3.2 Procedure for Admission

1. Application for admission to graduate studies must be made online to the School of Graduate Studies at www.mun.ca/become/graduate/apply/. The application must be supported by an official transcript of the applicant's university record. If the applicant is a graduate of another university or college, a copy of the Calendar of that institution must be included upon request.
Most graduate programs have September start dates; however, some programs accept students for January and/or May admission. Deadlines for submission of applications can be as early as November for the following September; therefore, applicants should inquire about program start dates and application deadlines of the academic program of interest (see www.mun.ca/become/graduate/). Non-Canadian applicants should allow four to six months for processing of official documents with Immigration authorities.
2. Admission to graduate studies shall be upon acceptance by the Dean after assessment of the qualifications of the applicant but no candidate will be admitted unless the academic unit of specialization recommends acceptance along with a proposed program of study and a proposed Supervisor or advisor or, where appropriate, a tutor. Successful applicants will be notified by the Dean of Graduate Studies.
3. The applicant may be required to appear for an interview before a final offer of admission is made.
4. It is recommended that the applicant refer to the appropriate section of this Calendar to ascertain if additional testing information or documentation is required when making initial application.
5. The University reserves the right to refuse admission to any applicant.

3.3 Registration

3.3.1 Program Registration

1. All graduate students must be registered in each semester for the graduate program registration appropriate to their discipline (see note) until all academic requirements for the degree have been met, except during periods for which leaves of absence have been granted (see **Leaves of Absence**).

Note: e.g., Linguistics 9000, Chemistry 9000 or, in the case of Medicine, Medicine 9900.

2. A student registered in a graduate diploma, Master's, Ph.D., or Psy.D. program may not concurrently pursue studies leading to any other degree without the prior approval of the Dean.

3.3.2 Program Withdrawal

Students intending to withdraw from their program must inform the Dean of Graduate Studies in writing. The period of withdrawal from a program without incurring liability for that semester's fees is three weeks after the first day of lectures in the semester in question, as

stated in the **University Diary**. Requests received after the end of the regular registration period, and approved, will be charged an administration fee (see **Fees and Charges**).

3.3.3 Course Registration

Note: For interdisciplinary programs, the Head of the academic unit is the Dean or Director of the Faculty/School administering the program.

1. Students will register for courses at the times indicated in the **University Diary**.
2. Students not admitted to a graduate program may enroll in graduate courses with the permission of the Head of the appropriate academic unit.

3.3.4 Changes in Course Registrations

Note: For interdisciplinary programs, the Head of the academic unit is the Dean or Director of the Faculty/School administering the program.

1. Within two weeks following the first day of lectures in any semester, as stated in the **University Diary**, a graduate student may, upon the approval of the appropriate Head of academic unit, add a course or courses to his or her registration for that semester.
2. Within seven weeks after the first day of lectures in any semester, as stated in the **University Diary**, a graduate student may, upon the approval of the appropriate Head of academic unit, drop a course or courses from his or her registration for that semester without prejudice.
3. After the period described in 2. above has expired, and up until the last day of lectures, any student who is prevented from completing a course by illness, bereavement or other acceptable cause, duly authenticated in writing may, upon the recommendation of the Head of the appropriate academic unit, drop that course without academic prejudice.

Note: A course cannot be dropped after the last day of lectures without the approval of the Dean of Graduate Studies.

3.3.5 Period of Study

1. Each student in graduate studies shall spend such time in the program as decided by the academic unit of specialization and approved by the Dean, and be subject to the following minimum residency.
 - a. Except where provided for elsewhere in this calendar, each student for a Master's Degree shall normally spend at least two semesters in residence as a graduate student at this University.
 - b. Except where provided for elsewhere in this calendar, each student for a Ph.D. or Psy.D. shall normally spend at least three semesters in residence as a graduate student at this University.
To be resident as a graduate student of this university a student must be registered as a graduate student at Memorial University of Newfoundland and participate in a community of learners and instructors (formally or informally) who are joined together by the practices and standards of a profession or an academic discipline. For most students this will involve taking courses or engaging in research while resident on campus. These attributes may, however, be found elsewhere and it is possible therefore that the residency requirement may be satisfied in an off campus location. In such cases the Dean of Graduate Studies must be satisfied that the attributes are met.
 - c. Except where provided for elsewhere in this Calendar, each student for a graduate diploma shall normally spend at least one semester in residence as a graduate student at this University.
2. The maximum period of a graduate program shall be seven years beyond first registration.

3.3.6 Leaves of Absence

3.3.6.1 General

1. A leave of absence is a period of time during which a student is not required to register; no fees are assessed; and the time granted is not counted in the maximum time period permitted for a graduate program (see **Period of Study**).
2. In the event that circumstances prevent a student from pursuing his/her program, the student may apply to the Dean of Graduate Studies for a leave of absence.
3. A student may normally apply for only one leave of absence during his/her program. The maximum leave of absence shall normally not exceed 12 months.
4. An application for leave will normally be made before the end of the registration period in the first semester for which leave is requested. Requests received after the end of the regular registration period, and approved, will be charged an administration fee (see **Fees and Charges**).

3.3.6.2 Parental

A student may apply for a leave of absence in the case of pregnancy/birth/adoption of a child. (Such leave will be considered separately from 3. above.)

3.4 Program Requirements

Note: Every candidate shall complete a program of study as recommended by the Head of the academic unit, in consultation with the Supervisory Committee and approved by the Dean of Graduate Studies. See **Procedure For Admission**, Clause 2.

3.4.1 Graduate Diploma and Master's Programs

1. Candidates should consult the appropriate Degree and Department/Faculty/School regulations for information concerning the specific program requirements.
2. Graduate diploma programs shall not normally comprise more than 50% of the master's in the same area.

3.4.2 Ph.D. and Psy.D. Programs

1. Each candidate is required to pass a comprehensive examination (see **Comprehensive Examinations, Ph.D. and Psy.D. Comprehensive Examination**).
2. Each candidate shall present a thesis embodying the results of original research.
3. Candidates should consult the appropriate Department/Faculty/School regulations for information concerning the number and specific credit hours that may be required for a program.

- Candidates may pursue a specified part of their research elsewhere provided that prior permission has been obtained from the Dean on the recommendation of the Head of the academic unit in consultation with the Supervisory Committee.

3.4.3 English Writing Requirement

Given the analytical and scholarly demands of study at the graduate level, graduate students are expected to demonstrate an advanced facility with written English in meeting the demands of their course work and, where applicable, in the writing of any end-of-program research report, folio, comprehensive examination, or thesis.

3.4.4 Changes in Programs

Any changes in the candidates's program of studies must be approved by the Dean of Graduate Studies on the recommendation of the appropriate academic unit.

3.4.5 Research Involving Animals

The Animal Care Service Department offers a seminar in animal care at least once annually. The seminar is administered by the School of Graduate Studies. All graduate students whose degree requirements involve experimentation on living vertebrate animals are required to attend this seminar normally at the first offering following commencement of their program.

3.4.6 Graduate Student Conduct

All graduate students shall adhere to Memorial University's policies and guidelines relating to academic scholarship, integrity and ethical conduct informing the design, conduct, and reporting of responsible research.

3.4.7 Year of Degree and Departmental Regulations

- A student completing a graduate degree program in the School of Graduate Studies will follow the degree and Faculty/School/Department regulations in effect in the year in which the student first registers for his/her current program. However, students may elect to follow regulations introduced subsequent to their initial registration.

Note: *The foregoing notwithstanding, in the case of students who have submitted a thesis/report/folio, or students in a non-thesis program who have taken a comprehensive examination, the option of changing regulations is no longer available.*

- When there is doubt as to which degree or Departmental regulations may be followed, the Academic Council of the School of Graduate Studies will decide which are the appropriate regulations.
- Notwithstanding these guidelines, the University may place limits on the time permitted to complete a program under any given set of regulations. In addition, detailed scheduling of courses and/or work periods may be changed as the University deems appropriate or necessary.

3.4.8 Transfer of Course Credits

All such transfers require the approval of the Dean of Graduate Studies, on the recommendation of the Head of the appropriate academic unit.

- A student who has successfully completed graduate courses at Memorial University of Newfoundland prior to admission to a graduate program may apply to transfer appropriate courses to that program, provided such courses have not been used to satisfy other Degree requirements.
- A student who has successfully completed graduate courses as part of one graduate program at Memorial University of Newfoundland, and who is subsequently admitted to another program, may apply to transfer appropriate courses to the current program, provided such courses have not been used to satisfy other Degree requirements.
- A student who has successfully completed graduate courses at another institution recognized by Senate may, on admission to a graduate program at Memorial University of Newfoundland, apply to transfer appropriate courses to the current program, provided such courses have not been used to satisfy other Degree requirements.
- Students who successfully complete a graduate diploma program may transfer the course credits earned in that program towards a master's degree if these credits meet the requirements of the master's in the affiliated area in which the graduate diploma was granted.

Affiliated Master's programs for graduate diploma programs currently offered by the School of Graduate Studies are as follows:

Medicine

Graduate Diploma in Clinical Epidemiology - Master of Science in Medicine (Clinical Epidemiology)

Graduate Diploma in Community Health - Master of Science in Medicine (Community Health) and Master of Public Health

Education

Graduate Diploma in Post-Secondary Studies (Health Professional Education) - Master of Education (Post-Secondary Studies)

Marine Studies

Graduate Diploma in Fisheries Resource Management - Master of Marine Studies (Fisheries Resource Management)

- In programs requiring a minimum of 12 credit hours or more, transfer of credit hours in graduate courses referred to in 1., 2., and 3. above shall not exceed 30% of the total number of credit hours required. In programs requiring fewer than 12 credit hours, a maximum of 3 credit hours in graduate courses referred to in 1., 2., and 3. above shall be considered eligible for transfer.
- Graduate courses referred to in 1., 2., 3., and 4. above shall not be considered eligible for transfer if they have been completed more than seven years prior to the date of admission into the current program.

3.5 Provision for Waiver of Regulations

Academic regulations notwithstanding, the University reserves the right in special circumstances, to modify, alter or waive any regulation in its application to individual students where, in the judgement of the appropriate University Officer or Committee, there is sufficient justification for doing so.

- Waivers of course prerequisites/co-requisites may be granted by the Head of an academic unit.
- Waivers of Departmental regulations may be granted by the Dean of Graduate Studies on the recommendation of the Head of an

academic unit.

3. Requests for waiver of a degree or general regulation must be submitted to the Academic Council of the School of Graduate Studies.

3.6 Appeal of Regulations

3.6.1 General Information

1. Every graduate student has the right to appeal decisions resulting from the application of University regulations.
2. Appeals will be considered in the case of health issues, bereavement and/or other acceptable cause, duly authenticated.
3. For assistance in the appeals process, students are advised to consult with the School of Graduate Studies.
4. In preparing an appeal a student may consult advisors or facilitators. Such advisors or facilitators may include an international advisor, a faculty advisor, a counsellor, a representative from the Memorial University of Newfoundland Graduate Students' Union (GSU) or a faculty member who is familiar with the appeals process and who is willing to undertake the role of student advisor or facilitator.
5. Appeals are made before specific committees that exist at the University to provide an objective review of cases. The appeals process is designed to assist students at critical points in their graduate program and to provide an accessible and transparent process for students. Refer also to **Appeal Procedures** for information concerning where appeals should be directed.
6. The principle of fairness should be applied to all parties in appeals processes and decisions. Fairness includes, but is not limited to, such practices as all parties to the appeal receiving timely and adequate notice, all parties to the appeal having the opportunity to be heard, all parties to the appeal being made aware of the evidence considered by the committee, and no individual sitting in judgment on an appeal at a higher level who has already been a party to the decision at a lower level. Any member of a committee hearing an appeal, who was previously involved in a decision making process at a lower level of process, will abstain from voting.
7. While the University makes provision for students to appeal regulations, the academic, financial or other consequences of the appeal process rests with the students.
8. When an appeal is denied, the student will be advised in writing of the reasons for the decision and of further steps that can be taken in the appeals process. A student whose appeal is denied by the Executive Committee of Senate may appeal to the Senate. Appeals to the Senate will be heard in the first instance by the Senate Committee on Academic Appeals and that Committee will investigate the appeal and file a report to the Senate with its findings and recommendations as expeditiously as possible. Students have the right to appear in person before the Senate Committee on Academic Appeals, and have the right to be accompanied by another person in order to assist them with their presentation. Normally, however, the presentation of the student's case rests with the student. Advance notice of the student's intention to appear and the identity of the accompanying individual, if any, must be provided to the Secretary of the Senate Committee on Academic Appeals. Should the student's appeal be denied by the Senate, the student will be advised that within the University no further appeal is possible.
9. Student appeals are heard anonymously. However, this provision ceases to apply to a student who elects to appear in person before the Senate Committee on Academic Appeals as outlined in Clause 8 above.

3.6.2 Appeal Procedures

1. Normally, the responsibility for making an appeal before the appropriate committee of the University rests with the student.
2. A student who is ineligible to officially register for courses but who wishes to attend classes, laboratories or other educational activities while an appeal is in progress can do so only with the written permission of the head of the academic unit concerned. Such permission will not be unnecessarily withheld.
3. Any student whose request for waiver of regulations has been denied has the right to appeal. Normally, any such appeal should be made in writing, clearly stating the basis for the appeal, and should be directed as follows:
 - Appeals against decisions of the Head of an Academic Unit will be made directly to the Dean of Graduate Studies.
 - Appeals against decisions of the Dean may be made to the Appeals Committee, School of Graduate Studies. Letters of appeal should be directed to the Chair of the Appeals Committee, c/o School of Graduate Studies.
 - Appeals against decisions of the Executive Committee of the Academic Council may be made to the Appeals Committee, School of Graduate Studies. Letters of appeal should be directed to the Chair of the Appeals Committee, c/o School of Graduate Studies.
 - Appeals against decisions of the Appeals Committee, School of Graduate Studies, may be made to the Executive Committee of Senate, c/o Office of the Registrar.
4. Appeals cannot be made on the basis of the grades awarded in individual courses. Dissatisfaction with grades is not sufficient grounds for an appeal.

Notwithstanding the above, and recognizing that the award of grades is an academic matter within the purview of experts in a discipline or subject area, students who wish to question the award of grades in individual courses are encouraged to consult with the following in the order given:

- The course instructor
- The Head of the appropriate academic unit
- The Dean of Graduate Studies

3.6.3 Information Required in Letters of Appeal

1. All appeals must be made in writing, clearly stating the basis for the appeal, and must be directed to the secretary of the appropriate University committee.
2. In the Letter of Appeal, the student must clearly and fully provide: name, current address, telephone number, Memorial University of Newfoundland email address, student ID number, the decision being appealed and the remedy being sought. The grounds for the appeal, including health issues, bereavement and/or other acceptable cause, must be stated in the Letter of Appeal. Students must present independent evidence to corroborate statements made in the Letter of Appeal. Preferably, this evidence will come from a professional, such as a health professional, a counsellor, or a professor. However letters from other knowledgeable parties may be acceptable.
3. In cases where an appeal is made on health issues, the student must provide a certificate from a health professional in the form of a note or a letter. Such a note must be sufficiently specific to allow appropriate consideration of the student's case. The note must also

clearly state that, in the opinion of the health professional, the problem was serious enough to have interfered with the student's work. Students should refer to the policy respecting **Information Required for Certificates from Health Professionals** for more complete information.

- Students claiming bereavement as grounds must provide proof of death and evidence of a close personal relationship between themselves and the deceased.
- Confidentiality:** The committees to which appeals are made do require substantial information about the reasons for the appeal in order to make their decisions. However, the committees also recognize the students' rights to confidentiality. With this in mind, a student may discuss the reasons for his or her appeal with a University, College or Institute counsellor, who, with the student's permission and provided sufficient reasons exist, may then write a letter to the appropriate committee confirming that there were sufficient grounds for an appeal, without disclosing the special personal and confidential details of the case.

3.6.4 Information Required for Certificates from Health Professionals

- Students who request permission to drop courses, to withdraw from University studies, to have examinations deferred or to obtain other waivers of University, departmental or course regulations based on health issues are required by the University to provide, in support of the request, a certificate from a health professional in the form of a note or letter. Such notes must be sufficiently specific to allow a proper consideration of students' cases. The University requires that all such notes must be on letterhead, must be signed by the health professional, must confirm the specific dates on which the student visited the health professional and should include details on the following:
 - the degree to which the health issue (or treatment, in the case of medication, for example) is likely to have affected the student's ability to study, attend classes, sit examinations, or continue with research;
 - the length of time over which the student's abilities were likely hampered by the condition (e.g., recurring and severe back pain over a two-month period would likely have a more adverse effect on studies than a single episode of back pain requiring bed rest for a week; and
 - the fitness of the student to resume studies (it is in the student's best interest not to return to studies prematurely).
- Confidentiality:** The University respects the confidentiality of all material contained in notes. Student should request that their health professional retain a copy of the note in case the note needs to be verified or reissued at a later date.

3.7 Evaluation

Note: For interdisciplinary programs, the Head of the academic unit is the Dean or Director of the Faculty/School administering the program.

3.7.1 Evaluation Methods and Grading

- Students shall write their examinations in graduate courses at a time to be determined by the Head of the academic unit on the recommendation of the Faculty member(s) concerned.
- A written copy of the course outline, including method of evaluation in the course, shall be provided to each student in the course as early as possible, and in any case not later than two weeks after the start of the course.
- The final evaluation submitted to the Registrar shall consist of one of the following letter grades with the appropriate numerical equivalent:

Letter Grades	Numeric Grades	Points Per Credit Hour
A	80-100%	4
B	65-79%	3
C	55-64%	2
D	50-54%	1
F	below 50%	0
PWD (pass with distinction) - indicates excellent performance	no numeric grade	not applicable
PAS (pass) - indicates performance meets expectations	no numeric grade	not applicable
FAL (fail) - indicates failing performance	no numeric grade	not applicable
DR (drop) - drop without academic prejudice	no numeric grade	not applicable
DRF (drop fail) - drop with academic prejudice	0%	0
ABS (absent) - absent for acceptable cause	no numeric grade	not applicable
INC (incomplete) - incomplete pending final grade	no numeric grade	not applicable

- Supplementary examinations are not permitted.

3.7.2 Evaluation of Graduate Students

- Failure to attain a final passing grade of A or B in a program course shall lead to termination of a student's program unless:
 - the regulations for a particular degree allow the student to repeat the course. Only one such repeat will be permitted in a student's program. Failure to obtain a grade of A or B in the repeated course shall lead to termination of the student's program.
 - the Dean of Graduate Studies approves a repeat of the course, upon the recommendation of the Supervisor and the Supervisory Committee supported by the Head of the Academic Unit, where 1.a. above does not apply. Such recommendations must provide sufficient grounds for a repeat. Only one such repeat will be permitted in a student's program. Failure to obtain a grade of A or B in the repeated course shall lead to termination of the student's program.

Note: In exceptional circumstances, the Dean of Graduate Studies may approve a substitute course in place of the repeat upon the recommendation of the Supervisory Committee and Supervisor supported by the Head of the Academic Unit. Failure to obtain a grade of A or B in the substituted course shall lead to termination of the student's program.

- Failure in a non-program course will not normally result in termination of a student's program.

3. The Supervisor and the Supervisory Committee may recommend that a candidate be required to withdraw from the program, if after consultation with the candidate, the candidate's non-course work is deemed to have fallen below a satisfactory level.
4. When Departmental requirements for a degree requires an examination of a candidate's reading knowledge of a language(s) other than English, the examination shall be set and marked by the appropriate language Department, or by an authority as determined by the Head of the academic unit and Dean. The results of the examination will be transmitted to the candidate by the Dean.

3.7.3 Deferral of Examinations

1. Graduate students who are prevented by illness, bereavement or other acceptable cause, duly authenticated, from writing final examinations may apply, with supporting documents within one week of the original examination date to the appropriate Head of the academic unit to have their examinations deferred.
2. The Department's decision, including information on the appeals route open to the student in the case of a negative decision, must be communicated in writing to the student and to the Dean of Graduate Studies within one week of the receipt of the student's complete application.
3. In those cases where the Department accepts the extenuating circumstances the student may be permitted to write a deferred examination or, with the consent of both the Department and the student, the grade submitted may be based on term work alone.
4. An interim grade of 'ABS' will be assigned by the academic unit in the case of a student granted a deferred examination. This grade will be replaced by the final grade which must be received by the Office of the Registrar within one week following the commencement of classes in the next academic semester or session.
5. Students who are prevented by illness or bereavement or other acceptable cause, duly authenticated, from writing a deferred examination, may apply, in writing, with supporting documents within one week of the scheduled date of the deferred examination to the appropriate Department Head to have the examination postponed to a time not later than the last date for examinations in the semester following that in which the student was enrolled in the course.
6. The Department's decision, including information on the appeals route open to the student in the case of a negative decision, must be communicated to the Registrar, to the student and to the Dean of Graduate Studies within one week of the receipt of the student's complete application.

3.7.4 Incomplete Grades/Change of Grade

1. For good cause a grade of 'Incomplete' may, with the approval of the appropriate Department or academic unit, be submitted. This 'Incomplete' grade shall, however, be valid only for one week following the commencement of classes in the next academic session as stated in the **University Diary**. In the event that a mark has not been received by the Registrar within the prescribed deadline, the 'Incomplete' grade shall be changed to '0 F'.
2. Clause 1. notwithstanding, for acceptable cause an extension of time not exceeding the end of the semester following that in which the 'Incomplete' was given may be permitted by the Head of the academic unit. "Acceptable cause" in these cases must be duly authenticated and will be illness, bereavement, serious problems of a personal nature or the like.
3. Changes in grades for graduate courses must be submitted on the appropriate form, which must be signed by the course instructor and approved by the Head of the appropriate academic unit who will submit such changes to the Registrar.

Note: A grade of less than 65% cannot be changed without the approval of the Dean of Graduate Studies.

3.7.5 Re-Reading of Examination Papers

1. Students may apply to have a final examination paper re-read whether or not they have obtained a passing grade in that course.
2. Students who wish to have a final examination paper re-read must make written application to the Registrar enclosing a fee of \$50.00 per paper within one month of the release by the University of the grade reports. If the mark is raised after re-reading, the fee is refunded. If the mark is unchanged or lowered, the fee is forfeited.

3.8 Comprehensive Examinations

3.8.1 Master's Comprehensive Examination

1. The composition of the Comprehensive Examination Committee is specified in the Degree and Departmental regulations, and the Committee is appointed by the Dean. The Dean of Graduate Studies or delegate may exercise the right to attend. All members of the Committee including the Chairperson, but excluding the Dean of Graduate Studies, shall be voting members.
2. In this examination the candidates must demonstrate an advanced knowledge of the academic discipline as defined by the academic unit in which they are students. Therefore, in order to be eligible to sit the examination, all course requirements must be completed.
3. Members of the Comprehensive Examination Committee shall decide the results of the comprehensive examination as indicated in a.-d. below:
 - a. The category of 'pass with distinction' will be awarded to candidates who demonstrate superior knowledge of their chosen field. This category requires unanimous support of the Comprehensive Examination Committee.
 - b. The category of 'pass' will be awarded to candidates who demonstrate an acceptable knowledge of their chosen area and requires a simple majority vote.
 - c. The category of 're-examination' selects those candidates with an understanding of their research area that lacks sufficient depth and scope as indicated by a simple majority of the Comprehensive Examination Committee. Only one such re-examination is possible and students in this category are not eligible for the award of 'pass with distinction'. If a re-examination is to be held, it must be conducted not less than one month and not more than six months after the first examination. The decision of the voting members of the Committee following this re-examination can only be 'pass' or 'fail' decided by simple majority. Failure will lead to immediate termination of the candidate's program. There is no option for further re-examination.
 - d. Students awarded a 'fail' are deemed, by unanimous vote of the Comprehensive Examination Committee, to be unable to demonstrate an adequate understanding of their research area. The candidate's program is terminated. A simple majority vote will default to the award of 're-examination'.
4. The Chairperson of the Comprehensive Examination Committee shall report to the Head of the academic unit who shall report to the Dean. The result of the comprehensive examination(s) shall be reported to the candidate by the Dean.

3.8.2 Ph.D. and Psy.D. Comprehensive Examination

1. The candidate shall submit to a comprehensive examination, which may be written or oral or both as determined by the academic

- unit. Candidates shall normally take the examination no later than the end of the seventh semester in the doctoral program. Unless an extension is approved by the Dean of Graduate Studies, failure to take the examination at this time will result in the termination of the candidate's program.
2. This examination, whether written or oral, shall be conducted by a Committee appointed by the Dean of Graduate Studies on the recommendation of the academic unit. It shall consist of the Head of the academic unit (or delegate) who shall be the Chairperson, the candidate's Supervisor [or, where a Supervisor has not yet been appointed, the Graduate Officer or Chair of the Graduate Studies (or equivalent) Committee], the Dean of Graduate Studies (or delegate), and at least three other members, the total voting members to be an odd number. All members of the Committee including the Chairperson, but excluding the Dean of Graduate Studies, shall be voting members.
 3. In this examination, the candidate must demonstrate a mastery of those sub-disciplines appropriate to his/her research area, as defined by the academic unit in which he or she is a student. Those sub-disciplines upon which the candidate will be examined should be made known to the candidate no later than three months prior to the examination. The candidate must further be able to relate the specialization of his/her research to the larger context of these sub-disciplines.
 4. Members of the Comprehensive Examination Committee shall decide the results of the comprehensive examination as indicated in a.-d. below:
 - a. The category of 'pass with distinction' will be awarded to candidates who demonstrate superior knowledge of their chosen field. This category requires unanimous support of the Comprehensive Examination Committee.
 - b. The category of 'pass' will be awarded to candidates who demonstrate an acceptable knowledge of their chosen area and requires a simple majority vote.
 - c. The category of 're-examination' selects those candidates with an understanding of their research area that lacks sufficient depth and scope as indicated by a simple majority of the Comprehensive Examination Committee. Only one such re-examination is possible and students in this category are not eligible for the award of 'pass with distinction'. If a re-examination is to be held, it must be conducted not less than one month and not more than six months after the first examination. The decision of the voting members of the Committee following this re-examination can only be 'pass' or 'fail' decided by simple majority. Failure will lead to immediate termination of the candidate's program. There is no option for further re-examination.
 - d. Students awarded a 'fail' are deemed, by unanimous vote of the Comprehensive Examination Committee, to be unable to demonstrate an adequate understanding of their research area. The candidate's program is terminated. A simple majority vote will default to the award of 're-examination'.
 5. The Chairperson of the Comprehensive Examination Committee shall report to the Head of the academic unit who shall report to the Dean. The result of the comprehensive examination(s) shall be reported to the candidate by the Dean.

3.9 Supervision

3.9.1 Master's Candidates

Each Master's candidate shall be assigned a Supervisor by the Dean, on the recommendation of the Head of the academic unit, or the Dean of the faculty concerned.

3.9.2 Ph.D. and Psy.D. Candidates

1. Each candidate shall be assigned a Supervisor by the Dean, on the recommendation of the Head of the academic unit or the Dean of the faculty concerned.
2. A Supervisory Committee shall be appointed for each candidate by the Dean. The Supervisory Committee shall consist of the Supervisor (co-supervisors) who shall act as Chair, and normally at least two other members. In no circumstances may the Committee membership be fewer than two members. The membership of the Committee shall be nominated by the Head of the Department or the Dean of the faculty concerned, after consultation with the Supervisor and the candidate.
3. The Supervisory Committee shall forward its reports and recommendations to the Dean via the Head of the Department or the Dean of the faculty concerned.
4. The functions of the Supervisory Committee shall be, *inter alia*,
 - a. to decide, in consultation with candidates, the program of study, the subject of research, and the title of the thesis, and to recommend these for approval to the Dean;
 - b. to monitor the candidate's progress in their course programs and their research;
 - c. to report at least annually to the Dean on the candidates' progress and, at the same time, to advise on their continuation in the program; and to make such other reports and recommendations about the candidates to the Dean as it may deem necessary.
 - d. to recommend to the Dean, after consultation with the candidates, necessary changes in the program of study, the subject of research, or the title of the thesis;
 - e. to recommend to the Head of the academic unit or Dean of the faculty the timing of the comprehensive examination;
 - f. to report to the Dean that the thesis is ready for examination by completing a Supervisor Approval Form, which is to accompany the thesis upon its submission to the School of Graduate Studies; and
 - g. to recommend to the Dean suitable persons to act as members of the Thesis Examining Board.

3.9.3 Supervisory Reports

1. At least annually, the Supervisor, Supervisory Committee or the Department shall make evaluations of a student's progress in a program. Recommendations concerning continuation, amendment, or termination (see **Termination of a Graduate Program**) of a candidate's program, are sent to the Dean, who shall take appropriate action. Students shall be advised of the contents of this evaluation and the subsequent recommendation(s).
2. The Supervisor, Supervisory Committee or the Department, shall forward its reports and recommendations to the Dean via the Head of the academic unit or the Dean of the faculty concerned.

3.10 Theses and Reports

3.10.1 Thesis/Report Guide Supplement

The Thesis/Report Guide Supplement (www.mun.ca/sgs/go/guid_policies/guidelines_intro.php), approved by the Academic Council of

the School of Graduate Studies, provides the details for the examination process, general form and style of the thesis/report, required forms, number of copies, etc., required under this regulation.

3.10.2 Submission

1. Candidates must submit the thesis/report at least four months before the University Convocation at which the award of the Degree is expected (see **University Diary** in current edition of University Calendar for exact date). The School of Graduate Studies does not accept any responsibility for completing the prescribed procedure in time for the nearest Convocation unless theses or reports are submitted by the prescribed dates in any current academic year.
2. A thesis/report may not be submitted until the candidate has fulfilled:
 - a. All course requirements, if any
 - b. All language requirements, if any
 - c. The comprehensive examination, if required, and
 - d. All other academic requirements of the academic unit concerned.

3.10.3 Evaluation of Master's Theses and Reports

1. Final examiners for the thesis/report will be appointed by the Dean on the recommendation of the academic unit. There will be two examiners for a Master's thesis. Examiners shall normally be those who have completed a graduate degree at the doctoral level, including a thesis, in the discipline or cognate area. Those serving as examiners shall not have been involved in the preparation of the thesis/report.
2. Examination of the thesis/report will result in one of the following recommendations by each examiner. The thesis/report is:
 - a. acceptable without modifications; or
 - b. acceptable, modifications are required but the thesis does not have to be re-examined*; or
 - c. unacceptable, the thesis/report requires modification and re-examination**; or
 - d. totally unacceptable, the thesis/report is failed.***

*Modifications may include corrections of typographical errors and errors in nomenclature, improvement in phrasing, or rewriting of sections of the thesis/report. Modifications may be indicated in the text or listed separately;

**Modifications might include (but are not limited to) the rectification of one or more of the following deficiencies: (1) misinterpretation and/or misuse of the matter covered, omission of relevant materials, unfounded conclusions, illogicality of argument, improper analysis of data and the like, (2) bad writing, (3) unacceptable physical presentation. A detailed list of problems should be included with the report;

***A detailed list of the reason(s) for failure must be included in the report.

3. If all examiners recommend that the thesis/report is totally unacceptable, then the thesis will be failed, and shall not be re-examined.
4. If an examiner recommends that the thesis/report is unacceptable, and this recommendation is accepted by the Dean, then the student may apply to the Dean for permission to resubmit the thesis for re-examination in one of the following ways:
 - a. to submit a modified thesis/report to the original examiners.
 - b. to submit a modified thesis/report to new examiners.
 - c. to submit the original thesis/report to an Examination Board to be appointed by the Dean.
5. If a thesis/report is re-examined, the candidate will not be awarded a pass unless all examiners find the thesis acceptable.
6. Under no circumstances may a thesis/report be re-examined more than once.

3.10.4 Evaluation of Ph.D. and Psy.D. Theses

Candidates for the Degree of Doctor of Philosophy and the Degree of Doctor of Psychology must submit a written dissertation deemed acceptable by the University, and demonstrate their ability to defend their work in a public oral examination. For this reason, the final decision on whether a candidate will be recommended for the award of the degree is made only at the conclusion of the oral examination (see **The Examination Process**).

1. Responsibilities of the Thesis Examining Board

The work of each candidate will be assessed by a Thesis Examining Board. Its first responsibility is to determine whether the thesis successfully demonstrates the candidate's competence to undertake independent research work. The Board must be satisfied that the work contributes significantly to knowledge in the field of study; that the contribution is of high scholarly merit; that the candidate is aware of the pertinent published literature; that it is written in a satisfactory style; and that it is free from typographical and other mechanical errors. The second responsibility of the Board is to conduct a final oral examination of the candidate and to then recommend to the Dean of Graduate Studies whether the candidate should be awarded the Degree.

2. Composition of the Thesis Examining Board

The members of the Thesis Examining Board will be appointed by the Dean on the recommendation of the Head of the academic unit who will have consulted with the supervisory committee. The Board shall consist of four members. Normally these will be the candidate's Supervisor (who serves on the Board in a non-voting capacity), two examiners from within the University, and one from outside the University. However, when circumstances warrant, a second external examiner may be substituted for one of the internal examiners with permission of the Dean. Examiners shall normally be those who have completed a graduate degree at the doctoral level, including a thesis, in the discipline or cognate area. Members of the supervisory committee other than the Supervisor are ineligible for appointment to the Board. Those serving as examiners shall not have been involved in the preparation of the thesis/report.

3. The Examination Process

- a. The voting members of the Board shall submit written reports on the thesis containing an assessment of the quality of the written work and a recommendation as to whether the candidate should be permitted to proceed to an oral examination and defence of the work. An examiner may recommend:
 - i. that the candidate be allowed to proceed to the oral defence of the thesis*, or
 - ii. that the candidate not be allowed to proceed to the oral defence at this time**; or
 - iii. that the candidate should be failed.

*Any suggested corrections or revisions should be outlined in the examiner's report. It is understood that it will be the responsibility of the Supervisory Committee to discuss the suggested changes with the candidate, to determine which should be

incorporated in the thesis before its final submission.

**This recommendation reflects the examiner's opinion that further research, re-analysis of data, or thorough rewriting of the material is required. The thesis may, however, be re-submitted for examination.

- b. If all examiners recommend that the candidate should be failed, then the thesis shall not be re-examined.
- c. If an examiner recommends that the candidate not be allowed to proceed to the oral defence, and this recommendation is accepted by the Dean, then the student may apply to the Dean for permission to resubmit the thesis for re-examination in one of the following ways:
 - i. To submit a modified thesis to the original examiners,
 - ii. To submit a modified thesis to new examiners,
 - iii. To submit the original thesis to an Examination Board to be appointed by the Dean.
- d. No candidate will be permitted to re-submit a thesis more than once. In case of a re-submitted thesis an examiner may recommend only:
 - i. that the candidate be allowed to proceed to the oral defence of the thesis; or
 - ii. that the candidate should be failed.
- e. After receiving the reports from all three voting members of the Board the Dean will consider the recommendations and determine whether an oral defence of the thesis will be scheduled.
- f. The Final Oral Examination and Defence of Thesis will take place at a time and place to be determined by the Dean of Graduate Studies and will be chaired by the Dean or his/her delegate. The presence of all members of the Examining Board is normally required.
- g. Following the defence, the Board will meet *in camera* to render a final assessment of the thesis and the candidate's ability to defend his/her work. The Board may recommend one of the following outcomes:
 - i. Passed with distinction (Awarded to candidates who demonstrate superior knowledge of their chosen field; this category requires unanimous support of the Board. A simple majority vote will result in a recommendation of 'passed'.)
 - ii. Passed*
 - iii. Passed Subject to Conditions**
 - iv. Re-examination required***
 - v. Failed****

*This recommendation may have attached to it the requirement that the candidate complete certain specified revisions to the satisfaction of the Supervisory Committee, the Head of the academic unit and the Dean. These revisions must have been specified in the written appraisal submitted prior to the Oral Examination.

**This recommendation is made if there are revisions beyond those specified in the written appraisal submitted prior to the Oral Examination. This recommendation must have the conditions attached and cannot include the option of re-examination.

***The members of the Thesis Examination Board may attach to this recommendation a list of any requirements which they feel are appropriate.

****Re-examination not permitted.
- h. If the members of the Board are unanimous in their recommendation, the Chair of the Examination may accept this recommendation and inform the candidate of the decision. In any other case, however, the delivering of any final decision shall be deferred pending further consultation within the School of Graduate Studies.
- i. No candidate shall be permitted more than two Oral Examinations.

3.10.5 Time Limit for Revision

The final version of Master's, Ph.D., and Psy.D. theses/reports found acceptable with or without corrections shall be submitted to the School of Graduate Studies within 6 months of the date on which the thesis/report and the student's examiners' reports are returned to the student's academic unit. If a corrected thesis/report is not submitted within 6 months the student is considered to have withdrawn from the program. After this time, the student must apply to be readmitted.

Master's, Ph.D., and Psy.D. theses/reports requiring re-examination shall be resubmitted to the School of Graduate Studies within 12 months of the date on which the thesis/report and the examiner's reports are returned to the student. Students requiring resubmission and re-examination of theses/reports must maintain their registration during this period. Failure to resubmit the revised thesis/report within 12 months will result in termination of the student's program.

Note: Please refer to **Registration** for regulations governing program registration.

3.10.6 Prepublication

Publication of material before submission of the thesis/report for examination is permitted. The School of Graduate Studies and Supervisor should be informed of such publication.

3.11 Graduation Procedure

Candidates expecting to graduate at any particular Convocation must apply online to the Office of the Registrar at www.mun.ca/regoff/ at least by the time of the submission of the Thesis, Project Report or Internship Report required by their program, or, if applicable, by the date of the final comprehensive examination.

3.12 Academic Misconduct

3.12.1 Principles

In the course of a graduate degree program students are expected to adhere to those principles which constitute proper academic conduct. Within the University Community there is a collective responsibility to maintain a high level of scholarly integrity. Dishonesty has no place in the academic community. Academic misconduct cannot be condoned or even appear to be condoned. Students have the responsibility to ascertain those actions which could be construed as dishonest or improper. Certain flagrant violations are listed below under **Academic Offences**. Students are reminded that for guidance on proper scholarly behaviour they should see assistance from their instructors and supervisors. The Graduate Students' Union will provide students with information on their legal rights and the

information that advice about acceptable writing standards is available through the Writing Centre.

3.12.2 General Information

1. These procedures shall apply to all academic offences relating to graduate studies involving, but not limited to, those students who either have been or who are enrolled at Memorial University of Newfoundland. Notification of an allegation of academic misconduct will be forwarded to the last known mailing address of the student as noted on the files at the Office of the Registrar, and to the official University email address of the student. The University reserves the right to implement action under these procedures where an allegation has been made against a student but where reasonable efforts to contact the student are unsuccessful.
2. Meetings and interviews stipulated in this regulation will be held in person, or at a distance using telephone or other interactive technologies.
3. A student who wishes to pursue research, or to attend classes, laboratories or other educational activities while an investigation under these procedures is being carried out, can normally do so with the understanding that if the allegation of academic misconduct is proven and the penalty involves either suspension or expulsion, credit will not be granted for work completed prior to a finding of guilt. This provision excludes students charged with an offence under the Code of Student Conduct. For information regarding the Code of Student Conduct contact the Office of Student Affairs and Services.
4. Although a student can continue in a program of studies, if eligible, while an investigation under these procedures is being carried out, the University does not accept liability for any consequences to the student's progress. However, the University may take these consequences into account, as appropriate and to the extent feasible, in cases where charges are dropped or the student is not found guilty. The consequences arising from an investigation and any negative decision rendered may include retroactive effects on grades, examination results or promotion within a program.
5. A student accused of academic misconduct may consult advisors or facilitators. Such advisors may include a representative from the Graduate Students' Union, an international student advisor, a faculty advisor, a University counselor or a faculty member who is familiar with these Regulations and who is willing to undertake the role of advisor whether resolution is sought through **Procedures for Resolution of Alleged Academic Offences at the Unit Level** or **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies**.

3.12.3 General Procedure

1. When a member of the University community (faculty, staff, student) has grounds for belief that an academic offence has been committed there should be an attempt between the parties concerned to resolve allegations of minor offences. If the alleged offence is not deemed to be minor by the accuser, or resolution proves impossible, or one party is dissatisfied with the resolution, the matter shall be reported, without delay, to the head (or other appropriate officer) of the academic or administrative unit. If resolution is achieved and it is agreed that an academic offence has been committed, then the offence, together with the penalty applied, shall be reported to the head of the academic or administrative unit.
2. Where resolution is not achieved, and if in the judgment of the head of the academic or administrative unit, the alleged offence warrants resolution at the unit level, the individuals involved will be advised to attempt to resolve the matter through Procedures for Resolution of Alleged Academic Offences at the Unit Level. In the event that no resolution is possible through these procedures between the individual parties, the head of the academic or administrative unit will institute proceedings through the School of Graduate Studies.
3. If, in the judgment of the head of the academic or administrative unit, the alleged offence against University regulations is such as to warrant resolution through the School of Graduate Studies, the head of the academic or administrative unit will refer the matter to the Dean, and Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies will be implemented.
4. In all cases, it is the responsibility of the academic or administrative unit to ensure that fairness and impartiality are achieved in the treatment of students.

3.12.4 Academic Offences

In the following section the plural shall be deemed to include the singular.

Academic offences shall be deemed to include, but shall not be limited to, the following:

1. **Cheating:** This includes copying from another student's work or allowing another student to copy from one's own work; consulting with any unauthorized person during an examination or test, or using unauthorized aids; or knowingly recording or reporting false empirical or statistical data. The work referred to includes presentations, examinations, theses, assignments, work term reports, projects, internship reports, or any other tests or evaluations which are to be used in judging the student's performance in a course or program of study, or any special tests which the University may offer; or in any presentations or publications related to academic work.
2. **Impersonation:** Impersonating another student or allowing oneself to be impersonated. By impersonation is meant the imitation of a student or entrance into an arrangement with another person to be impersonated for purposes of taking examinations or tests or carrying out laboratory or other assignments.
3. **Plagiarism:** Plagiarism is the act of presenting the ideas or works of another as one's own. This applies to all material such as theses, essays, laboratory reports, work term reports, design projects, seminar presentations, statistical data, computer programs, and research results. The properly acknowledged use of sources is an accepted and important part of scholarship. Use of such material without acknowledgment, however, is contrary to accepted norms of academic behaviour. Information regarding acceptable writing practices is available through the Writing Centre at www.mun.ca/writingcentre/about/.
4. **Theft of examination papers or other material:** By theft is meant obtaining by an improper means examination papers, tests, or any other such material.
5. **Use and/or distribution of stolen material:** The use of material which the student knows to have been improperly obtained and/or the distribution of such material is considered to be an academic offence
6. **Submitting false information:** This offence includes falsifying, submitting or causing to submit false academic transcripts, forms or records, credentials, medical or other certificates, or making a false or incomplete declaration to the University.
7. **Submitting work for one course, project or publication which has been or is being submitted to another course, project or publication without express permission to do so:** This includes the presentation of an essay, report or assignment to satisfy some or all of the requirements of a course when that essay, report, or assignment has been previously submitted or is concurrently being submitted for another course without the express permission of the professor(s) involved.
8. **Ethical Practice:** Failure to follow relevant University/Faculty/School guidelines on ethics, including but not limited to, ethical practice in research.

3.12.5 Procedures for Resolution of Alleged Academic Offences at the Unit Level

3.12.5.1 General Information

These procedures will not be applied to cases involving alleged offences on comprehensive examinations, examination of theses, allegations of impersonation or allegations of submission of forged documents. Such alleged offences are governed by the **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies**. The principle that a resolution should be mutually satisfactory to both the accuser and the accused should be upheld throughout the attempt for resolution at the unit level.

3.12.5.2 Explanation of Procedures

If, upon receiving a report of an alleged academic offence, the Department Head or other appropriate academic officer, decide that an attempt should be made to resolve that matter within the Department the following procedures shall apply:

1. Normally within one week of notification, the head of the academic or administrative unit shall request a meeting with the accuser and the accused and at the meeting the head of the academic or administrative unit shall state the allegation, review the **Procedures for Resolution of Alleged Academic Offences at the Unit Level** including the range of applicable penalties, and arrange a second meeting between the accuser and the accused only.
2. At the second meeting the accuser and accused shall endeavour to obtain a mutually satisfactory resolution of the matter.
3. The accuser and accused shall report jointly to the head of the academic or administrative unit on the result of their second meeting.
4. If the report is of a resolution which the head of the academic or administrative unit considers to be fair and equitable the matter shall be considered closed. If the head of the academic or administrative unit considers the reported resolution to be unfair and/or inequitable he or she will endeavour to obtain an alternative satisfactory resolution directly with the parties.
5. Should all reasonable efforts to obtain a mutually satisfactory resolution at the unit level fail, the head of the academic or administrative unit will refer the case to the Dean of the School of Graduate Studies and shall inform the accuser and the accused accordingly. From this stage onward by the **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies** will apply.
6. At any stage of the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, the student or the accuser may ask that the case be referred to the Dean, and thereafter the **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies** will apply.
7. Should the accused be found guilty, a brief description of the offence and the penalty(ies) applied shall be forwarded by the head of the academic or administrative unit to the School of Graduate Studies.

3.12.5.3 Failure to Appear or Respond

1. If at any stage of the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, the accused fails to respond to a charge, without reasonable cause, within two weeks of notification of an allegation, action may be taken on the charge in the absence of the accused.
2. If at any stage of the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, the accuser fails to appear at a scheduled meeting to defend an allegation, without reasonable cause, the action will be dismissed.

3.12.5.4 Penalties in the Case of Resolution at the Unit Level

A student who has been found guilty of an academic offence will be subject to a penalty or penalties commensurate with the offence. Some cases may warrant more than one penalty for the same offence, and previous academic misconduct will be taken into account in determining the severity of penalties. The range of penalties and their determination is:

1. **Resubmission** of work with appropriate reduction in grade: will allow a student to complete and submit the work a second time.
2. **Reprimand**: This shall be in the nature of a warning in writing by the head of the academic or administrative unit to the student that his/her conduct has been unacceptable to the University.
3. **Reduction of grade**: A reduction of grade will apply to an examination, test, or assignment to which an offence is relevant, or to the entire course, and will be decided by the head of the academic or administrative unit. Since graduate students must obtain a grade of B or PASS in required courses a reduction of grade could lead to termination of program.

3.12.6 Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies

3.12.6.1 General Procedure

If the matter cannot be resolved following the **Procedures for Resolution of Alleged Academic Offences at the Unit Level**, or if, in the opinion of the head of the academic or administrative unit, the allegation involves a major breach of University regulations, or in cases involving alleged offences on comprehensive examinations, thesis examinations, allegations of impersonation or allegations of submission of forged or falsified documents, the following **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies** shall apply.

3.12.6.2 Explanation of Procedures

1. If the head of the academic or administrative unit (in consultation with the Dean of his or her faculty or school) is satisfied that the student has a serious case to answer, that person shall inform the student in writing of the nature of the case against him or her. In addition, the head of the academic or administrative unit shall report to the Dean of Graduate Studies who will, normally within one week, appoint as an investigator a member of the Academic Misconduct Investigations Board of the School of Graduate Studies (Investigations Board). The investigator will interview separately the accuser and accused and relevant witnesses. At these interviews, the investigator, the accuser, the accused and relevant witnesses all have the right to be accompanied by a registered student or a member of the Faculty or Staff of the University.
2. Upon completion of these interviews, the investigator shall submit a written report of all findings to the Dean of Graduate Studies. The Dean of Graduate Studies shall present this report to both the accuser and accused for perusal and comment. Once in receipt of this report, the accuser and accused shall have two weeks in which to submit to the Dean of Graduate Studies any additional comments on the report that the person wishes to be considered. The investigator will be given the opportunity to correct any errors of fact should they arise from the comments of the accused and accuser prior to consideration of the allegation by the Investigations Board.
3. Upon receipt of all information from the investigator as well as comments from the accuser and accused, the Dean of Graduate

Studies shall present the documents to the Investigations Board for a decision.

4. The investigator for the case shall attend the meetings of the Investigations Board to answer questions and provide information pertinent to the case, but shall be absent from the formal discussion and voting.
5. Once a vote is taken, should the accused be found guilty, the Investigations Board shall take appropriate action in accordance with **Penalties in the Case of Resolution by the School of Graduate Studies**.

3.12.6.3 Failure to Appear or Respond

1. If at any stage of the **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies**, the accused fails to respond to a charge, without reasonable cause, within two weeks of notification of an allegation, action may be taken on the charge in the absence of the accused.
2. If at any stage of the **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies**, the accuser fails to appear at a scheduled interview to defend an allegation, without reasonable cause, the action will normally be dismissed; however, the investigation may proceed at the discretion of the Dean in consultation with the Investigations Board if the allegation or evidence warrants such action.

3.12.7 Penalties in the Case of Resolution by the School of Graduate Studies

A student who has been found guilty of an academic offence will be subject to a penalty or penalties commensurate with the offence. Enforcement of penalties resulting from **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies** will be overseen by the Registrar. Some cases may warrant more than one penalty for the same offence, and previous academic misconduct will be taken into account in determining penalties. Penalties shall be imposed on the basis of the student's status at the time of the offence. The range of penalties and their determination is:

3.12.7.1 Reprimand

This shall be in the nature of a warning in writing by the Investigations Board to the student that his/her conduct has been unacceptable to the University.

3.12.7.2 Reduction of Grade

A reduction of grade will apply to an examination, test, or assignment to which an offence is relevant, or to the entire course, and will be decided by the Investigations Board. Since a passing grade for graduate students is at least a grade of B or Pass, a reduction of grade could lead to termination of program.

3.12.7.3 Change in Outcome of an Examination

This will apply to Comprehensive Examinations and the examination of **Theses and Reports** and could lead to termination of program.

3.12.7.4 Probation

This is a trial period the length of which will be determined by the Investigations Board. The Investigations Board will inform the student that the finding of any further academic offence during the period of probation may lead to suspension or expulsion.

3.12.7.5 Suspension

Suspension will apply to a course, department, faculty, school, or the University. The period of suspension will be determined by the Investigations Board and shall not exceed three consecutive semesters, and shall be part of the allowable time for a graduate program.

3.12.7.6 Expulsion

The recommendation for expulsion from the University will be made by the Investigations Board to the President for his/her final decision. Prior to the President's decision, the Investigations Board will notify the accused, in writing, of the recommendation for expulsion from the University. The accused will be allowed a period of two weeks following the date of release of such notification to lodge an appeal before the President's final decision concerning expulsion from the University. Any such appeal should be made in writing or email to the Executive Committee of Senate, c/o the Office of the Registrar.

3.12.7.7 Revocation of Degree

The recommendation for revocation of a degree previously awarded by the University will be made by the Investigations Board of the School of Graduate Studies to Senate for a final decision. Prior to Senate's decision, the Investigations Board of the School of Graduate Studies will notify the accused, in writing, of the recommendation for revocation of the degree. The accused will be allowed a period of two weeks following the date of release of such notification to lodge an appeal before the Senate's final decision concerning the revocation of the degree. Any such appeal should be made in writing to the Executive Committee of Senate, c/o the Office of the Registrar.

In the event that a student has been found guilty of an Academic Dishonesty Offence and when a penalty has been determined, a notation on the student's transcript may be made by the Registrar as provided for in **Transcript Entries** below.

3.12.8 Transcript Entries

Transcript entries shall relate to the penalty(ies) imposed as follows:

Penalty	Transcript Entry
Reprimand	No transcript entry
Reduction of Grade	Entry of final grade for course
Change in Outcome of an Examination	Entry of final outcome for the examination
Probation	"On probation at the University for academic misconduct until Day, Month, Year"
Suspension	"Suspended from the School of Graduate Studies for academic misconduct until Day, Month, Year"
Expulsion	"Expelled from the University for academic misconduct"
Revocation of Degree	"Degree revoked for Academic Dishonesty"
* The transcript entries for 'probation' or 'suspension' will be removed entirely upon the expiration of the penalty.	

3.12.9 Disposition of Documentation

The disposition of documents relating to allegations under these procedures shall be as follows:

1. The cases where the allegation was either found "not proven" or "unfounded" no documentation shall be retained in the student files.
2. In the case of a resolution effected through **Academic Misconduct - General Procedure or Procedures for Resolution of Alleged Academic Offences at the Unit Level**, a brief description of the offence and the penalty(ies) applied shall be forwarded by the head of the academic or administrative unit to and retained by the School of Graduate Studies, separate from the student files.
3. In the case of a resolution effected through the **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies**, all documentation shall be retained in the School of Graduate Studies, separate from the student files.

3.12.10 Right of Appeal

Appeals against decisions of the Investigations Board of the School of Graduate Studies made under **Procedures for Resolution of Alleged Academic Offences by the School of Graduate Studies** shall be directed to the Executive Committee of Senate, c/o Office of the Registrar.

3.13 Termination of a Graduate Program

Grounds for termination of a graduate program are as follows:

1. a. Failure to comply with the conditions of admission into a program, unless the conditions of admission have been changed with approval of the academic unit and the School of Graduate Studies;
- b. Failure to register in any semester by the final date for adding courses (see **Registration, Program Registration 1.**);
- c. Failure to obtain the required grades in courses as stated in the appropriate degree regulations (see **Evaluation**);
- d. Failure in comprehensive examinations (see **Comprehensive Examinations**);
- e. Demonstrated lack of progress in a program supported by written documentation;
- f. Recommendation of the Supervisory Committee (see **Supervision**);
- g. Failure of Thesis, Project or Internship (see **Theses and Reports**);
- h. Academic misconduct as outlined under **General Regulations, Academic Behaviour** governing the School of Graduate Studies.
2. The foregoing notwithstanding the University reserves the right to require students to discontinue their program or to deny them admission where, in the opinion of the Academic Council of the School of Graduate Studies, following appropriate professional consultation, there is a reasonable likelihood that a student's health or conduct could result in endangering the lives, health or safety of other persons on campus or in settings related to the student's university studies.
3. The foregoing notwithstanding, the School of Graduate Studies reserves the right to require students to discontinue their studies, or to deny them re-admission, where a student has been determined to have engaged in unprofessional conduct. The code of ethics of each profession will serve as the guideline as to what constitutes unprofessional conduct. However, should there not be any statements of what constitutes unprofessional conduct, the following standard will apply:

Unprofessional Conduct: That conduct which involves a breach of the duties required by professional ethics.

- Notes:
1. If the University or a School or Faculty requires a student to discontinue his/her studies under any of the above clauses, that student must be advised in writing of the nature of the case against him/her and must be advised of the right to appeal before the penalty imposed takes effect.
 2. Appeals against actions taken under Clause 2. should be directed to the Senate of the University. Any such appeal should be made in writing clearly stating the basis for the appeal and should be directed to the Secretary of Senate, c/o the Office of the Registrar.
 3. Appeals against actions taken under Clause 3. should be directed to the Appeals Committee, School of Graduate Studies.

3.14 Provision for Reapplication

1. A student whose program of studies has been terminated for any of the reasons outlined under **Termination of a Graduate Program** may apply for admission to a new program of studies leading to the same degree.
2. Notwithstanding the above, a student whose program of studies has been terminated under **Termination of a Graduate Program, 1.b.**, shall be readmitted to the existing program only under the following conditions:
 - a. on the recommendation of the appropriate academic unit;
 - b. on the payment to the University of those registration fees which would have been payable had the student remained in continuous registration during the period since the termination of the program;
 - c. on the understanding that the time period during which the student was not registered shall be considered as part of the

maximum time permitted for the completion of the degree.

4 Regulations Governing the Degree of Master of Applied Science

The Degree of Master of Applied Science (M.A.Sc.) is a course-based Degree offered in three areas: Computer Engineering, Environmental Systems Engineering and Management, and Oil and Gas Engineering. For information on the research-focused Master of Engineering program, refer to the regulations governing the Degree of Master of Engineering.

4.1 Industrial Internship Option

The Faculty permits graduate students to undertake internships of work in industry. These internships will allow students to either (a) enhance the application of their knowledge and skills within industry, or (b) complete a research project defined by the industry. Encouragement to undertake an internship will be given only where it is clear that one of these expectations can be met.

Students registered in the M.A.Sc. program may, with the permission of their Board of Studies, the Dean of the Faculty of Engineering and Applied Science, and the Dean of Graduate Studies, select the Industrial Internship Option. Students pursuing this option must satisfy the degree regulations for an M.A.Sc. program. In addition, students in the Industrial Internship Option:

- shall normally complete at least 18 credit hours of the courses required for their program with an average of 75% or higher prior to the internship; the remaining required courses may be taken on campus or by distance
- shall normally spend at least two continuous semesters on campus on a full-time basis as a graduate student at this University
- shall normally spend 4 to 8 months of their program at an internship in industry
- shall submit monthly reports to a university supervisor appointed by their Board of Studies, and shall submit a concise progress report to their Board of Studies no later than the end of each semester while on an internship
- shall normally not opt out once the internship starts.

Successful completion of an internship will be indicated by a descriptive notation on the student transcript.

4.2 Computer Engineering

4.2.1 Program of Study

- The Faculty of Engineering and Applied Science offers a course-based program in Computer Engineering leading to the Degree of Master of Applied Science (M.A.Sc.) in Computer Engineering. The program is available only on a full-time basis.
- The program is offered by the Faculty of Engineering and Applied Science and will be administered by a Board of Studies appointed by the Dean of Engineering and Applied Science.

4.2.2 Qualifications for Admission

- Admission to the program is limited and competitive.
- To be eligible for consideration for admission, applicants will have at least a second class engineering degree in computer engineering, computer science or electrical engineering; they will have background in many of the following areas: object-oriented programming, data structures, digital logic, computer organization, circuits and electronics, systems and signals, communications, discrete mathematics, probability and statistics and engineering design.
- To be eligible for consideration for admission, applicants will meet the English Proficiency Requirements described under **English Proficiency Requirements**.

4.2.3 Degree Requirements

- The degree program requires the completion of 36 credit hours, 6 of which comprise a project course.
 - Students are required to complete 9801, 9859, 9861, 9865, 9867, 9871, 9874 and 9876.
 - Three elective courses must be selected; each term the Board of Studies for the program will provide a selection of eligible courses, which may include ENGI 9821, ENGI 9822, ENGI 9868, ENGI 9869, ENGI 9872, ENGI 9875, ENGI 9877, ENGI 9878, ENGI 9879, ENGI 9880/83, ENGI 9888/91, CS 6752, CS 6756, PHYS 6102, and others designated by the Board of Studies for the program.
- Normally students will take courses as shown in **Table I**. Students wishing to take courses in another sequence must request approval from the Board of Studies for the program.

Table I - M.A.Sc. in Computer Engineering Program

	Preparation	Core	Elective
Year 1 Spring	English		
Year 1 Fall		3	0
Year 1 Winter		2	1
Year 2 Spring		2	1
Year 2 Fall		ENGI 9801	1

4.2.4 Evaluation

Students must obtain a grade of at least 65% in all program courses to receive credit for the course towards their program requirements. Any student, who fails to receive 65% or more in a course, must repeat the course in the case of core courses, or must either repeat or replace the course with another program course in the case of elective courses. Any student who receives a grade of less than 65% in two courses or in a repeated course will be required to withdraw from the program.

4.2.5 Courses

980A/B Computer Engineering Project
 9802/05 (excluding 9804) Special Topics in Computer Engineering
 9806/09 Special Topics in Communications Engineering
 9821 Digital Signal Processing

9822 Nonlinear Digital Image Processing and Analysis
 9859 Computer Engineering Fundamentals
 9861 High-Performance Computer Architecture
 9865 Advanced Digital Systems
 9867 Advanced Computing Concepts for Engineering
 9868 ASIC Design
 9869 Advanced Concurrent Programming
 9871 Information Theory and Coding
 9872 Digital Communications
 9874 Software Design and Specification
 9875 Embedded and Real-Time Systems Design
 9876 Advanced Data Networks
 9877 Computer and Communications Security
 9878 Wireless and Mobile Communications
 9879 Formal Specification and Development
 9880-83 Special Topics in Computer Engineering
 9888-91 Special Topics in Communications Engineering
 Computer Science 6752 Applications of Computer Graphics
 Computer Science 6756 Digital Image Processing
 Physics 6102 Optics and Photonics

4.3 Environmental Systems Engineering and Management

4.3.1 Program of Study

1. The Faculty of Engineering and Applied Science offers a program in Environmental Systems Engineering and Management (ESEM) leading to the Degree of Master of Applied Science. The program is available on a full-time or part-time basis.
2. The program is offered by the Faculty of Engineering and Applied Science and will be administered by a Board of Studies appointed by the Dean of Engineering and Applied Science.

4.3.2 Qualifications for Admission

1. Admission is limited and competitive.
2. To be considered for admission, applicants shall normally hold a minimum second class Bachelor's Degree in engineering preferably in civil, environment, chemical, processing, or petroleum engineering, or in a related discipline from a university of recognized standing.
3. To be eligible for consideration for admission, applicants will meet the English Proficiency Requirements described under **General Regulations, English Proficiency Requirements**.

4.3.3 Degree Requirements

1. The Degree program requires the completion of 30 credit hours.
 - a. 6 credit hours comprising a project course 960A/B.
 - b. 15 credit hours comprised of 9601, 9609, 9626, 9627, and 9628.
 - c. 9 credit hours (three courses) to be selected from 9603, 9605, 9610-9615, 9621, 9622, 9624, 9625, 9629, 9630, ENVE/ENVS 6001, ENVE/ENVS 6002, ENVE/ENVS 6003, and Geography 6250

4.3.4 Evaluation

Students must obtain a grade of at least 65% in all program courses to receive credit for the course towards their program requirements. Any student who fails to receive 65% or more in a course, must repeat the course in the case of core courses, or must either repeat or replace the course with another program course in the case of elective courses. Any student who receives a grade of less than 65% in two courses or in a repeated course will be required to withdraw from the program.

4.3.5 Courses

960A Environmental Engineering Project (0 credit hours)
 960B Environmental Engineering Project (6 credit hours)
 9601 Environmental Pollution and Mitigation (cross-listed as ENVS 6004)
 9603 Environmental Sampling and Pollutant Analysis (cross-listed as ENVS 6005)
 9605 Water and Wastewater Treatment
 9609 Environmental Risk Assessment (cross-listed as ENVS 6007)
 9610-9615 Special Topics in Environmental Science and Engineering
 9621 Soil Remediation Engineering
 9622 Environmental Statistics
 9624 Air Pollution (cross-listed as ENVS 6008)
 9625 Environmental Impacts of Offshore Oil and Gas Operations
 9626 Environmental Management System
 9627 Environmental Systems Engineering
 9628 Environmental Laboratory
 9629 Environmental Policy and Regulations
 9630 Pollution Prevention
 ENVE/ENVS 6001 Earth and Ocean Systems
 ENVE/ENVS 6002 Environmental Chemistry and Toxicology
 ENVE/ENVS 6003 Applied Ecology
 Geography 6250 Conservation of Natural Resources

4.4 Oil and Gas Engineering

4.4.1 Program of Study

1. The Faculty of Engineering and Applied Science offers a program in Oil and Gas Engineering leading to the degree of Master of Applied Science in Oil and Gas Engineering (M.A.Sc.(OGE)). The program is available on a full-time basis.
2. The program is offered by the Faculty of Engineering and Applied Science and will be administered by a Board of Studies appointed by the Dean of Engineering and Applied Science.

4.4.2 Qualifications for Admission

1. Admission is limited and competitive.
2. To be considered for admission, applicants shall normally hold a minimum second class Bachelor's Degree in engineering preferably in mechanical, chemical/process, civil, environmental, mining/mineral, or petroleum engineering, or in a related discipline from a university of recognized standing.
3. To be eligible for consideration for admission applicants will meet the English Proficiency Requirements described under **General Regulations, English Proficiency Requirements**.

4.4.3 Degree Requirements

1. The degree program requires the completion of 30 credit hours.
 - a. 6 credit hours comprising a project course Engineering 910A/910B.
 - b. 15 credit hours by completing Engineering 9110, 9113, 9114, 9118 and 9121.
 - c. 9 credit hours (three courses) to be selected from Engineering 9002, 9015, 9111, 9112, 9116, 9117, 9119, 9120, 9420, 9609, 9624, 9625, 9901, 9902, 9989. Engineering 9117 is a recommended elective course for students without adequate background in petroleum engineering.

4.4.4 Evaluation

Students must obtain a grade of at least 65% in all program courses to receive credit for the course towards their program requirements. Any student who fails to receive 65% or more in a course must repeat the course in the case of core courses, or must either repeat or replace the course with another program course in the case of elective courses. Any student who receives a grade of less than 65% in two courses or in a repeated course will be required to withdraw from the program.

4.4.5 Courses

9002 Ocean Engineering Structures
 9015 Ocean Engineering Hydrodynamics
 910A OGE Project Course (0 credit hours)
 910B OGE Project Course (6 credit hours)
 9110 Advanced Petroleum Production Engineering
 9111 Well Testing
 9112 Multiphase Flow
 9113 Phase Behaviour of Petroleum Reservoir Fluids
 9114 Advanced Reservoir Engineering
 9116 Reliability Engineering
 9117 Offshore Petroleum Geology and Technology
 9118 Advanced Drilling Engineering
 9119 Compact Process Equipment Design
 9120 Advanced Natural Gas Engineering
 9121 Advanced Safety, Risk and Reliability Modeling
 9420 Engineering Analysis
 9609 Environmental Risk Assessment
 9624 Air Pollution
 9625 Environmental Impacts of Offshore Oil and Gas Operations
 9901 Fundamentals of Fluid Dynamics
 9902 Advanced Transport Phenomena
 9989 Special Topics Course - Corrosion Principles, Prevention and Control

5 Regulations Governing the Degree of Master of Applied Social Psychology (Co-operative)

This program is designed to meet the needs of both students and employers. Students will gain the skills and knowledge necessary to ask appropriate questions and conduct research in a variety of applied settings (e.g., business, government, health care, etc.). Students completing the program will be qualified for either immediate employment or further education. Students' and employers' needs will be met by a program that combines training in basic scientific methods and social psychological theory with practical experience in a variety of work settings. The training in methods and theory will be provided by the academic component of the program and the practical experience will be provided by the cooperative, work term component.

5.1 Qualifications for Admission

1. Admission to the program is competitive and selective. To be considered for admission to the Master of Applied Social Psychology (Cooperative) an applicant shall normally hold at least a high second class Honours degree or its equivalent, both in achievement and depth of study, from an institution recognized by the Senate.
2. Applications
 - a. All applicants are required to submit results from the General section of the Graduate Record Examinations.
 - b. Applicants are required to submit with their applications an example of their academic writing. This could include, but is not limited to, papers submitted in class, honour's thesis, etc.

- c. At least one letter of reference should come from someone who is familiar with the applicant's research capability.
3. Election will be based on an applicant's overall academic performance, scores on the Graduate Record Examination and letters of reference.
4. Admission to the program shall be upon acceptance by the Dean of Graduate Studies after recommendation by the Head of the Department of Psychology which will include a proposed program of study and a proposed Supervisor.

5.2 Program of Study

1. Students should note that it is possible to enter Academic Term 1 only in the Fall semester commencing in September of each year.
2. Every candidate shall complete four Academic Terms in the Cooperative Program and shall normally be required to complete two Work Terms.
3. Courses shall be taken in Academic Terms of "blocks" in the sequence, order, and course load as follows:
Fall: 6000, 6400, **Winter:** 6001, 6401, **Spring:** Work term 1, **Fall:** 6402, 6403, **Winter:** Work term 2, **Spring:** 6404

5.3 Evaluation and Advancement

1. In order to continue in good standing in the program and in order to qualify for the Master's Degree, a candidate shall obtain a grade of A or B for program courses, and complete two Work Terms.
2. The dates for starting and finishing each Work Term are shown in the **University Diary**. Successful completion of the Work Term requirements is a prerequisite to graduation.
3. A competition for Work Term employment is organized by the Division of Co-operative Education. Students may also obtain their own Work Term jobs outside the competition. Such jobs must be confirmed by letter from the employer and approved by the Head of Psychology and by the Division of Co-operative Education on or before the first day of the Work Term.
Work Term jobs may be outside St. John's and possibly outside Newfoundland and Labrador. Students who do not wish to accept a Work Term job arranged by Division of Co-operative Education shall be responsible for finding an alternative acceptable to the Head of Psychology and the Division of Co-operative Education.
By entering the competition, students give permission for the Division of Co-operative Education to supply their University transcripts to potential employers.
4. The overall evaluation of the Work Term is the responsibility of the Division of Co-operative Education. The Work Term evaluation shall consist of two components:
 - a. **On-the-job Student Performance:**
Job performance shall be assessed by a co-ordinator using information gathered during the Work Term and input from the employer towards the end of the Work Term. Formal written documentation from the employer shall be sought.
 - b. **The Work Report:**
 - i. Work term reports shall be evaluated by a member of the Division of Co-operative Education or a member of faculty in the Department of Psychology. If an employer designates a report to be of a confidential nature, both employer and co-ordinator must agree as to the methods to protect the confidentiality of such a report before the report may be accepted for evaluation.
 - ii. Reports must be prepared according to American Psychological Association specifications and contain original work related to the Work Term placement. The topic must relate to the work experience and will be chosen by the student in consultation with the employer. For promotion from the Work Term, a student must obtain at least 65% in each component.
5. If a student fails to achieve the Work Term standards specified above the student will be required to withdraw from the program. Such a student may reapply to the program after lapse of two semesters, at which time the student will be required to complete a further Work Term with satisfactory performance before being admitted to any further academic term in the Faculty. A Work Term may be repeated once.
6. Students are not permitted to drop Work Terms without prior approval of the Graduate Studies Committee of the Department of Psychology, upon the recommendation of the Division of Co-operative Education. The Graduate Studies Committee will make a recommendation to the Head of Department who will make the final decision. Students who drop a Work Term without permission, or who fail to honour an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the job, will normally be awarded a failed grade for the Work Term. Permission to drop a Work Term does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved Work Term in lieu of the one dropped.

5.4 Courses

6000 Advanced Statistics in Psychology
 6001 Research Design
 601W Work Term 1
 602W Work Term 2
 6400 Theory and Methods in Social Psychology
 6401 Social Cognition
 6402 Group Processes
 6403 Program Evaluation and Applied Research
 6404 Project in Applied Social Psychology

6 Regulations Governing the Degree of Master of Applied Statistics

The Degree of Master of Applied Statistics (M.A.S.) is a highly structured program incorporating 18 credit hours in program courses and a practicum in applied statistics. The Degree is offered in the Department of Mathematics and Statistics by full-time or part-time study.

6.1 Qualifications for Admission

1. Admission is limited and competitive. To be considered for admission to the Master of Applied Statistics program, an applicant shall normally hold at least a high second class Honours Degree or its equivalent, both in achievement and depth of study, from an institution recognized by the Senate.
2. In addition, an applicant shall normally have completed undergraduate courses in statistics which cover the material of Statistics 3521, 3530, 4410, 4520, 4560, 4561, 4590, 4591. If necessary, an applicant may be required to demonstrate a satisfactory

knowledge of the above courses in an examination administered by the Department of Mathematics and Statistics.

- Applicants who do not meet these requirements should consult the Department of Mathematics and Statistics about a program of further undergraduate courses. Such a program is intended to provide the candidate with an adequate statistical background. Such courses may not be used to fulfill the program course requirements of the Master of Applied Statistics Degree.
- Admission to the program shall be upon acceptance by the Dean of Graduate Studies after recommendation by the Head of the Department of Mathematics and Statistics along with a proposed program of study and a proposed Supervisor.

6.2 Program of Study

The minimum requirements for the Degree of Master of Applied Statistics are completion of the following:

- The following three courses: STAT 6510, STAT 6560 and STAT 6590.
- Nine additional credit hours selected from STAT 6500-6589.
- At least one non-credit Seminar Series in Statistics or an additional 3 credit hour graduate course.
- A practicum: An applied statistics project and an associated report. The report must demonstrate a satisfactory general mastery of statistical knowledge.

6.3 Evaluation

- In order to continue in graduate studies and in order to qualify for a Master's Degree, a candidate shall obtain an A or B for program courses and complete successfully the practicum requirement.
- STAT 6590 will be evaluated by the course co-ordinator in consultation with associated statistical consultants.
- Evaluation of the practicum shall be carried out in accordance with **Theses and Reports** of the **General Regulations** governing all students in the School of Graduate Studies.

Note: Every candidate in graduate studies shall comply with the **General Regulations**, the **Degree Regulations** and any additional requirements of the Department of Mathematics and Statistics.

6.4 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

Applied Statistics

- 6500 Probability (*credit restricted with former 6586*)
- 6503 Stochastic Processes
- 6505 Survival Analysis
- 6510 Mathematical Statistics
- 6520 Linear Models
- 6530 Generalized Linear Longitudinal Mixed Models
- 6540 Time Series Analysis
- 6545 Statistical Computing
- 6550 Nonparametric Statistics
- 6560 Continuous Multivariate Analysis
- 6561 Categorical Data Analysis
- 6563 Sampling Theory
- 6570-6589 Selected Topics in Statistics and Probability (excluding 6586)
- 6590 A Course in Statistical Consulting

7 Regulations Governing the Degree of Master of Arts

Professor and Dean of Arts

L. Phillips

Associate Professor and Associate Dean (Graduate and Research)

C. Dyck

The Degree of Master of Arts (M.A.) is offered in Anthropology, Archaeology, Classics, Economics, English Language and Literature, Environmental Policy, Ethnomusicology, Folklore, French Studies, Geography, German Language and Literature, History, Linguistics, Philosophy, Political Science, Religious Studies and Sociology.

Applicants are advised to consult, in addition to the regulations governing the Degree of Master of Arts, both the **General Regulations** and the particular regulations of the appropriate Departments.

7.1 Qualifications for Admission

- Admission is limited and competitive. To be considered for admission an applicant shall hold a Bachelor's Degree or its equivalent from an institution recognized by the Senate and shall have a knowledge of the proposed field of specialization satisfactory to the Department concerned (or Departments, when interdisciplinary study is intended) and to the Dean.
- Preference will normally be given to applicants who hold an appropriate Honours Degree, either from Memorial University of Newfoundland, or from another university whose Honours Degree is of comparable standing. Any other applicant who holds a Bachelor's Degree or its equivalent will be considered for admission provided that:
 - the applicant's undergraduate record after the first year shows an average of at least grade B in courses in the proposed field of specialization.
 - the applicant's overall undergraduate record after the first year shows an average of at least grade B in all courses taken, and
 - the Department concerned satisfies the Dean that the applicant's work exhibits evidence of academic excellence.

Only in exceptional circumstances, and only on the recommendation of the Department concerned, will the Dean consider applicants who do not meet the requirements in a. and b. Such applicants, however, must meet the requirements in c.

- An applicant may be required to demonstrate a satisfactory knowledge of the proposed field of study in an examination administered by the Department or Departments.

4. In most cases instruction is in English, and examinations and theses are to be written in English. (Language Departments, however, give instruction in the pertinent language and often require examinations and theses to be written in the language. In addition, other Departments may permit or even require examinations and/or theses to be written in a language other than English.)

7.2 Program of Study and Research

1. The program of study for the Master of Arts Degree shall consist of the successful completion of a program of courses and, in accordance with Departmental regulations, either of a thesis embodying systematic research or of a Comprehensive Examination.
For programs requiring 24 credit hours or more, the academic unit may choose not to require a thesis or comprehensive examination.
2. Every candidate shall read at least 12 credit hours in program courses at the graduate level in one subject or in closely related subjects. Departmental regulations may require more courses than the minimum and this higher number is listed where applicable in the regulations of the Department.
3. Students may, with the approval of the Dean, augment their program with a limited number of other courses of their choice. Passing grades are not required in these non-program courses in order to continue in graduate studies or obtain a Master's Degree.
However, the final grades in these courses will be recorded on the student's transcripts. The grading system in non-program courses shall be that appropriate to the particular course.
4. Candidates submitting a thesis on an approved topic shall conduct systematic research under the direction of a Supervisor recommended by the appropriate Department or Departments and approved by the Dean. The candidate may be required to take an oral examination.
5. Changes in either the program of courses or the topic of the thesis require the approval of the Dean.
6. On the recommendation of the Head of the Department, the Dean may waive, in part, the course requirements for a Master's Degree.
7. Application for transfer from the Master of Arts to the Master of Philosophy is to be made to the Dean before the end of the second semester in the case of full-time students, and in the case of part-time students before 18 graduate credit hours have been completed.
8. The Dean may approve an application to transfer from the M.A. to the M.Phil. only when a new integrated program, acceptable to the Dean, is submitted.

7.3 Evaluation

1. In order to continue in the School of Graduate Studies and in order to qualify for a Master's Degree, a candidate shall obtain an A or B grade in each regulation course. Some candidates may be required to read a specified number of additional graduate or undergraduate courses for which a passing grade must be achieved.
2. Students registered for credit shall write their examinations in their graduate courses at a time to be determined by the Dean on the recommendation of the Department.
3. Students registered in undergraduate courses shall satisfy examination requirements in these courses.
4. When, on a basis of consultation with the candidate, the instructors in graduate courses, and the thesis Supervisor, the Head of a Department has determined that the candidate's work has fallen below a satisfactory level, the Head may recommend to the Dean that the candidate be required to withdraw from the program.

7.4 Thesis or Report

See **General Regulation, Theses and Reports.**

7.5 Anthropology

Associate Professor and Head of the Department

M. Tate

The Degree of Master of Arts (M.A.) is offered in Anthropology by either full-time or part-time study.

1. Candidates will specialize in social and cultural anthropology.
2. When candidates are accepted into the program, they will be assigned one or more Supervisors. Candidates' programs shall be the responsibility of their Supervisor(s), the graduate co-ordinator(s), and the Head of the Department.
3. If candidates' records suggest a deficiency in some areas(s), the Department reserves the right to require that they complete additional undergraduate courses before beginning program courses.
4. Candidates may choose between a thesis and a non-thesis option.

7.5.1 M.A. With Thesis

1. Normally, the M.A. program should take two academic years to complete, of which the first year will be spent in (a) completing course work, (b) writing and orally defending a thesis proposal before members of the faculty, and (c) beginning to carry out research. The second academic year will be spent in (d) completing research, (e) presenting an oral research report to the Department, and (f) completing a thesis.
2. Candidates for the Degree of a Master of Arts in Anthropology will be required to complete not fewer than 12 credit hours, nor more than 18 credit hours of courses at the graduate level.
3. Most Department graduate courses are taught in either a seminar or tutorial framework; all courses require intensive reading, regular oral communication of ideas to faculty and other students, and preparation of written research papers and other assignments.
4. Normally, during the second semester of the first year of study in the program, a written thesis proposal which has been approved by the student's Supervisor(s) will be circulated to all members of the Department. The written thesis proposal should be made available to faculty members at least two weeks prior to the scheduled date of a student's oral presentation and defence of the proposal.
5. Shortly following the completion of their research, candidates will be required to present an oral research report on their findings to the Department.
6. A final draft of the thesis will be evaluated in accordance with the requirements of the School of Graduate Studies.

7.5.2 M.A. Without Thesis

Normally, the M.A. program without thesis should take one academic year to complete. Candidates who choose to do the M.A. without thesis must normally complete 24 credit hours in graduate program courses; 15 of which will normally be from ANTH 6440, ANTH 6890 and ANTH 6300. Nine additional credit hours are to be selected from the graduate courses offered by the Department.

Note: ANTH 6440 will be worth 9 credit hours. This course will normally be based on secondary literature and will be supervised by a faculty member.

7.5.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

6010 Cultural Ecology
 6071 Health and Illness: Cultural Contexts and Constructions
 6081 Anthropology of Gender
 6089 Anthropology of Underclass Life
 6100 Social Organization
 6110 Culture and Personality
 6140 The Community
 6210 Language and Culture
 6240 Atlantic Regional Studies
 6260 Social and Economic Development
 6280 Newfoundland Ethnography
 6281 Labrador Ethnography
 6282 Ethnography of a Single Region
 6300 Fieldwork and Interpretation of Culture
 6400 Current Themes in Cultural Anthropology
 6410 History of Anthropology
 6412 Anthropological Theory
 6413 Applied Anthropology
 6430 Audiovisual Anthropology
 6440 Master's Research Paper (9 credit hours)
 6580-6599 Special Areas in Anthropology
 6600 Contemporary Debates in Anthropology
 6890 Graduate Seminar

7.6 Archaeology

Professor and Interim Head of the Department

S. Brown

7.6.1 Program of Study

The Degree of Master of Arts is offered in Archaeology by either full-time or part-time study.

1. Candidates may specialize in either archaeology or bioarchaeology.
2. The choice of specialty will govern the selection of Supervisor(s), courses, and thesis or research paper topics. When candidates are accepted into the program, they will be assigned one or more Supervisors. Candidates' programs shall be the responsibility of their Supervisor(s), the graduate co-ordinator, and the Head of the Department.
3. If candidates' records suggest a deficiency in some areas(s), the Department reserves the right to require that they complete additional undergraduate courses before beginning program courses.
4. Normally, the M.A. program should take six academic semesters to complete, of which the first three semesters will be spent in (a) completing course work, (b) writing and orally defending a thesis proposal before members of the faculty, and (c) beginning to carry out research. The following semesters will be spent in (d) completing research, (e) presenting an oral research report to the Department, and (f) completing a thesis.
5. Candidates for the Degree of a Master of Arts in Archaeology will be required to complete not fewer than 12 credit hours, nor more than 18 credit hours of courses at the graduate level.
6. Most Department graduate courses are taught in either a seminar or tutorial framework; all courses require intensive reading, regular oral communication of ideas to faculty and other students, and preparation of written research papers and other assignments.
7. Normally, during the second semester of the first year of study in the program, a written thesis proposal which has been approved by the student's Supervisor(s) will be circulated to all members of the Department. The written thesis proposal should be made available to faculty members at least two weeks prior to the scheduled date of a student's oral presentation and defence of the proposal.
8. Shortly following the completion of their research, candidates will be required to present an oral research report on their findings to the Department.
9. A final draft of the thesis will be evaluated in accordance with the requirements of the School of Graduate Studies.

7.6.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

6020 Bioarchaeology
 6040 Human Osteology
 6095 Advanced Studies in Ethnohistory (same as History 6095)
 6151 Palaeoethnobotany
 6181 Palaeoeskimo Cultures of the Eastern Arctic
 6182 Advances in Material Culture Analysis
 6187 Readings in Maritime Provinces Prehistory
 6189 Palaeopathology
 6191 Approaches to Early Modern Material Culture

6192 Conservation Method and Theory
 6290 Newfoundland and Labrador Prehistory
 6310 Economic Analyses in Archaeology
 6320 Ethnoarchaeology
 6330 Archaeological Field Conservation
 6409 History of Archaeology
 6411 Theory and Method in the Study of Archaeology and Prehistory
 6500 Special Topics in Historical Archaeology (Prerequisite 6191)
 6680-6699 Special Topics in Archaeology and Prehistory
 6700 Interpretative Methods in Archaeology
 6701 Interpretative Methods in Historical Archaeology
 6890 Graduate Seminar

7.7 Classics

Associate Professor and Head of the Department

T.J. Allen

7.7.1 Program of Study

The Department of Classics offers an M.A. in Classics, with an emphasis on classical texts and research methods, which suitably prepared students may complete in 1 year of full-time study, normally beginning in September.

1. Applicants should have an Honours Degree in Classics or a related field, including at least two years study in both Greek and Latin. Students expecting to complete the M.A. Degree within 12 months must have at least 24 undergraduate credit hours in one language (Greek or Latin) and 18 undergraduate credit hours in the other. Other applicants may be required to take 3 or more credit hours at the undergraduate level, in addition to their graduate course work.
2. Students will complete 18 credit hours in courses at the 6000 level (including 6100 and 6101) plus any additional courses the Department may deem necessary. The required courses 6100 and 6101 involve the intensive reading of ancient texts and also introduce students systematically to the most important research methods in Classics, including palaeography, textual criticism, bibliography, and historiography. Texts and methods chosen may vary according to the availability of instructors.
3. Students are also required to complete one of the following:
 - a. **Research Essay**
 Students will complete a research essay (approximately 15,000 words), normally in the third semester of their program of study. The essay will be graded by two members of faculty and will be assigned a PASS/FAIL grade.
 - b. **Translation Examination**
 Students will be required to pass two exams based on a reading list of Greek and Roman authors. One exam will be on Greek authors and one on Latin authors. The exams test students' ability to translate from Greek and Latin texts into English and will also require some commentary on the set texts. Students are expected to write these exams in the third semester of their program of study. The exam will be graded by two members of faculty and will be assigned a PASS/FAIL grade.
4. Students are required to complete an examination testing their competence in German, Italian or French, as early as possible in their program of study. This examination will be assigned a PASS/FAIL grade. (See **Evaluation, Evaluation of Graduate Students**, 4.)

7.7.2 Courses

6010 Greek Literature: Prose
 6020 Latin Literature: Prose
 6030 Greek Literature: Poetry
 6040 Latin Literature: Poetry
 6050 Greek History
 6060 Roman History
 6080 Ancient Philosophical Authors
 6100 Greek Literature/Research Methods
 6101 Latin Literature/Research Methods

Note: *The prerequisite of all 6000-level courses is at least three courses numbered 3000 and above (or equivalent) in the appropriate language.*

7.8 Economics

Professor and Interim Head of the Department

E.Y. Tsoa

The Degree of Master of Arts is offered in Economics. The focus of the program is applied economics. The non-thesis option is designed so that suitably qualified full-time students can complete it in one year. The thesis option normally takes more than one year.

7.8.1 Qualifications for Admission

To be considered for admission, an applicant must normally have completed an undergraduate Degree in Economics at a Canadian university with at least second-class Honours standing, or its equivalent. Satisfaction of this criterion does not guarantee admission and, if admitted, students may be required to complete specified undergraduate courses as deemed necessary by the Department.

7.8.2 Programs of Study

1. **Non-Thesis Option**
 - a. The program of study requires, in addition to any specified undergraduate courses, completion of 26 credit hours in graduate Economics courses, including a master's essay course. The maximum time normally permitted for students to satisfy these requirements is three years.
 - b. The 26 credit hours in graduate courses consist of the following:
 - i. 11 credit hours in core courses, which shall normally be completed in the first term of the program: Economics 6000, 6001, 6002, and 6009;

- ii. 12 credit hours in other courses selected from those offered by the Department;
 - iii. Masters Essay course: Economics 6999. Normally, all other required graduate courses must be completed before the essay.
 - c. The master's essay, Economics 6999, must be in the area relating to the courses taken by the student. Students will be assigned a Supervisor, who will approve the topic; the essay will be graded by the Supervisor and one other member of the Department. The essay must be completed during the semester in which the student is registered in Economics 6999. During that time, students may be required to give a Departmental seminar on their essays.
- 2. Thesis Option**
- a. The thesis option consists of 20 credit hours and a thesis. The thesis will consist of a comprehensive study in the area of the student's field courses. The thesis must embody systematic research and demonstrate a mastery of economic principles and their application. Thesis work will be completed under a Supervisor from the Department.
 - b. The thesis must normally be completed within the two years following completion of 20 required credit hours, which must include Economics 6000, 6001, 6002 and 6009.
 - c. The thesis will normally be evaluated internally and in accordance with the requirements of the School of Graduate Studies.

7.8.3 Courses

The following courses will be offered to meet the requirements of candidates, as far as resources of the Department will allow.

Core Courses

6000 Advanced Micro-economic Theory
 6001 Advanced Macro-economic Theory
 6002 Econometrics
 6009 Graduate Seminar (2 credit hours)

Elective Courses

6010 Taxation
 6011 Expenditure
 6012 Cost-benefit Analysis
 6013 Fiscal Federalism
 6014 Topics in Public Sector Economics
 6020 Economics of Nonrenewable Natural Resources
 6021 Economics of Renewable Natural Resources
 6022 Environmental Economics
 6023 Advanced Fisheries Economics
 6024 Topics in Resource Economics
 6040 Industrial Economics

Master's Essay Course

6999 Master's Essay

Note: Additional courses may be arranged, so far as the exigencies of the Department allow, to meet the particular needs of candidates.

7.9 English Language and Literature

Associate Professor and Head of the Department

D. Walsh

The degrees of Master of Arts and Doctor of Philosophy are offered in English Language and Literature.

Candidates for the M.A. in English may complete the program as either part-time or full-time students. Candidates for the Ph.D. in English must be in attendance as full-time students for at least three semesters of the program.

7.9.1 Admission

1. Admission to the M.A. in English is limited and competitive. Applicants should have an Honours B.A. in English (or the equivalent, 60 credit hours in English with an appropriate range of courses) and a strong academic record.
2. Strong candidates who have come close to achieving Honours equivalency may be admitted on the condition that they complete such undergraduate courses as the Department may deem necessary, in addition to the required graduate courses.
3. Candidates who have not completed English 4900 or an equivalent course will be required to complete English 5900 which will not count as one of the required courses for the M.A. The course will be graded 'pass' or 'fail'. As in other graduate courses a grade of 65 or above is considered a pass.

7.9.2 Program of Study

1. Thesis Option

- a. Candidates completing the M.A. with thesis will complete a minimum of 15 credit hours in graduate courses, which will normally include English 7003, and a thesis.
- b. Candidates must submit a thesis proposal which includes a statement of topic, a working title, a plan of research, and a preliminary bibliography. The proposal should be approved by the Supervisor or Supervisors and submitted to the Departmental Graduate Studies Committee for its approval by the end of the candidate's third semester. The Departmental Graduate Studies Committee shall return the thesis proposal to the candidate no later than one month after receiving it.
- c. Full-time students who choose the thesis option will usually complete their degree in two years.

2. Non-Thesis Option

- a. Candidates completing the M.A. without thesis will complete a minimum of 24 credit hours in graduate courses, which will normally include English 7003.
- b. Full-time students who choose the non-thesis option will usually complete their degree in one year.

7.9.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

- Notes: 1. *Since it is impossible to list in detail the many topics that may from time to time be offered, the titles below refer only to the major periods and general subject areas in which specific courses may be available. The content and approach in specific courses will vary according to the research interests of students and faculty involved in the course. Students should consult the Department's annual Graduate Student Guide (or the Graduate Co-ordinator) for detailed descriptions of specific course offerings. Normally, no fewer than ten graduate courses are offered in any given academic year.*
2. *English 5900 cannot be counted as one of the required graduate courses in any program.*
3. *All students will normally take English 7003 - Trends in Contemporary Literary Theory, usually in their first semester.*
4. *Students who took graduate courses in English at Memorial University of Newfoundland before 1997 should consult with the Department before selecting further courses.*

5900 Bibliography and Research Methods
 6403 Etymology (same as Linguistics 6403)
 6420 English Dialectology I
 6421 English Dialectology II
 6999 Master's Essay (for non-thesis students)
 7003 Trends in Contemporary Critical Theory
 7004 English Phonology and Morphology
 7005 The Syntactic Structure of English
 7020-25 Special Topics in English
 7032 Studies in Old English I
 7033 Studies in Old English II
 7034 Studies in Middle English I
 7035 Studies in Middle English II
 7036 Studies in Middle English III
 7037 Studies in 16th-Century Literature I
 7038 Studies in 16th-Century Literature II
 7039 Studies in 16th-Century Literature III
 7040 Studies in 16th-Century Literature IV
 7041 Studies in 17th-Century British Literature I
 7042 Studies in 17th-Century British Literature II
 7043 Studies in 17th-Century British Literature III
 7044 Studies in 17th-Century British Literature IV
 7045 Studies in 18th-Century British Literature I
 7046 Studies in 18th-Century British Literature II
 7047 Studies in 18th-Century British Literature III
 7048 Studies in 18th-Century British Literature IV
 7049 Studies in 19th-Century British Literature I
 7050 Studies in 19th-Century British Literature II
 7051 Studies in 19th-Century British Literature III
 7052 Studies in 19th-Century British Literature IV
 7053 Studies in 20th-Century British Literature I
 7054 Studies in 20th-Century British Literature II
 7055 Studies in 20th-Century British Literature III
 7056 Studies in 20th-Century British Literature IV
 7057 Studies in Pre-19th Century American Literature
 7058 Studies in 19th Century American Literature I
 7059 Studies in 19th-Century American Literature II
 7060 Studies in 19th-Century American Literature III
 7061 Studies in 20th-Century American Literature I
 7062 Studies in 20th-Century American Literature II
 7063 Studies in 20th-Century American Literature III
 7064 Studies in 20th-Century American Literature IV
 7065 Studies in Pre-19th Century Canadian Literature
 7066 Studies in 19th-Century Canadian Literature I
 7067 Studies in 19th-Century Canadian Literature II
 7068 Studies in 19th-Century Canadian Literature III
 7069 Studies in 20th-Century Canadian Literature I
 7070 Studies in 20th-Century Canadian Literature II
 7071 Studies in 20th-Century Canadian Literature III
 7072 Studies in 20th-Century Canadian Literature IV
 7073 Studies in Newfoundland Literature I
 7074 Studies in Newfoundland Literature II
 7075 Studies in Newfoundland Literature III
 7076 Studies in Anglo-Irish Literature I
 7077 Studies in Anglo-Irish Literature II
 7078 Studies in Modern Drama
 7079 Studies in Post-Colonial Literature I
 7080 Studies in Post-Colonial Literature II
 7081 Studies in Post-Colonial Literature III
 7082 Studies in Critical Theory I
 7083 Studies in Critical Theory II
 7084 Studies in Critical Theory III
 7085 Special Readings in English I
 7086 Special Readings in English II
 7087 Special Readings in English III

7.10 Environmental Policy

The M.A. in Environmental Policy is a rigorous, interdisciplinary study of environmental policy in terms of its theory, application, methodology and approaches with reference to central contemporary debates. It is also an applied program that equips students with practical skills in the field making links to the labour market through a required internship program.

The M.A. in Environmental Policy is offered by full-time study or part-time study and by completion of either a thesis or research paper. The **Thesis Option** involves completion of 15 credit hours of course work, an internship and a thesis, and is normally completed in two

academic years of full-time study and in three academic years of part-time study. The **Research Paper Option** involves completion of 18 credit hours of course work, an internship and a research paper, and is normally completed in one academic year of full-time study and up to three academic years of part-time study.

The following regulations must be read in conjunction with the **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland.

7.10.1 Administration

1. The program shall be administered by a Graduate Officer, who reports to the Dean of Graduate Studies. The Graduate Officer shall be appointed by the Dean of Graduate Studies on the recommendation of the Head of Social Science, Grenfell Campus and the Vice-President, Grenfell Campus. In making this recommendation, the Head of Social Science, Grenfell Campus and the Vice-President, Grenfell Campus may consult with the environmental policy community both within and outside the University.
2. An Executive Committee consisting of the Graduate Officer and the Head of Social Science, Grenfell Campus and the Vice-President, Grenfell Campus will be established to review administrative, resource and strategic planning issues related to the program. This committee shall be chaired by the Dean of Graduate Studies.
3. The Graduate Officer shall consult with the Graduate Committee in Environmental Policy (GCEP) for the purposes of administering the academic elements of the program. The GCEP shall normally consist of seven members appointed by the Dean of Graduate Studies on the recommendation of the Graduate Officer. The GCEP will include the Graduate Officer, who shall chair the committee, approximately four faculty members from the Division of Social Science, Grenfell Campus who teach core courses, the Head of Social Science, Grenfell Campus and one student representative, Grenfell Campus.
4. An Advisory Board in Environmental Policy (ABEP) shall be established for the purposes of consulting with and obtaining feedback from the environmental policy community. The ABEP will consist of a broad cross-section of members from the environmental policy community both within and outside the University who shall be appointed by the Dean of Graduate Studies on the recommendation of the Graduate Officer.

7.10.2 Qualifications for Admission

1. Admission is limited and competitive.
2. To be considered for admission, applicants shall have an undergraduate degree, with a minimum B standing, from an institution recognized by Senate.
3. In exceptional cases, applicants who have not completed an undergraduate degree may be considered for admission. Preference will be given to those who have a minimum of 10 years of full-time professional experience, including demonstrated success in environmental policy, and who have successfully completed substantial university course work including several courses at an advanced undergraduate level from an institution recognized by Senate. Applicants without an undergraduate degree must have completed one or more undergraduate courses in public policy, public administration or political science and one or more undergraduate courses in geography, biology or chemistry from an institution recognized by Senate, with a minimum B standing in each course. Applicants may also be required to successfully complete the Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE) with an acceptable score and/or additional undergraduate courses before being considered for admission.
4. To be eligible for consideration for admission, applicants shall meet the English Proficiency Requirements described under **General Regulation - Qualifications for Admission, English Proficiency Requirements**.
5. Applicants will be assessed for admission to the M.A. in Environmental Policy based on their interests, their potential to produce meaningful research in the field of environmental policy and the availability of supervisors in the area of the applicant's interest.
6. Interdisciplinary study in the program is encouraged by the University. Applicants with an interdisciplinary background or whose background combines two or more fields of study (e.g., political science, public policy, environmental studies, geography, resource management, environmental science, public administration) would be an excellent fit for this program.

7.10.3 Deadlines for Applications

1. Applicants seeking full-time enrollment will normally only be admitted to the program in the Fall (September) semester.
2. Applications must be postmarked no later than February 15 for applicants wishing to enter full-time or part-time studies in the Fall (September) semester.
3. Applications must be postmarked no later than August 15 for applicants wishing to enter part-time studies in the Winter (January) semester.
4. Individuals submitting applications later than the above dates are not assured of consideration for admission to the program in the semester desired; their applications will be processed only if time and resources permit.

7.10.4 Procedure for Admission

1. Applications for admission to the M.A. in Environmental Policy program must be made on the appropriate form and submitted to the School of Graduate Studies.
2. The following documents must be submitted in support of the official application form:
 - a. Letter of appraisal from three referees, at least one of whom is capable of appraising the applicant's academic potential as a graduate student, and at least one of whom is capable of appraising the applicant's professional experience and/or actual or likely success in a career in environmental policy.
 - b. Two official transcripts from each university or other post-secondary institution previously attended, to be sent directly by its Registrar (or equivalent officer) to the School of Graduate Studies. If not recorded on the transcript, official evidence of completion of undergraduate degree must also be submitted.
 - c. All applicants must submit a one page statement outlining their research interests and are strongly encouraged to identify a supervisor.
 - d. Application files are normally evaluated after the deadline dates for application noted above and only when all required documentation has been received.
 - e. Admission shall be by the Dean of Graduate Studies on the recommendation of the GCEP. Upon notification from the Dean of the School of Graduate Studies of acceptance into the M.A. in Environmental Policy program, applicants must give written notice to the School of Graduate Studies of their intention to register.

7.10.5 Program of Study

1. **Thesis Option:** Students in the thesis-based program must complete 15 credit hours in graduate program as specified in **Table I**, an internship (ENVP 6030) and a thesis. There are four required courses (representing 12 credit hours) as specified in **Table II**. One elective, representing 3 credit hours, related to the student's research specialty is to be completed and may be chosen from **Table III** in consultation with the student's thesis supervisor.
2. **Research Paper Option:** Students in the research paper-based program must successfully complete 18 credit hours in graduate program courses as specified in **Table I**, an internship (ENVP 6030) and a Research Paper (ENVP 6999). There are four required courses (representing 12 credit hours) as specified in **Table II**. Two electives, representing 6 credit hours, are to be completed, of which at least one is to be from **Table II**. The second elective, related to the student's research specialty, may be chosen from **Table II or Table III** in consultation with the student's research paper supervisor.
3. Further courses beyond the minimum number may be required, depending on the background and needs of the student.
4. Students are responsible for fulfilling all pre-requisites.
5. All students are required to attend two Workshops:
 - a. **Policy and Science Orientation Workshop**
This workshop is held the first week of September each year. Its intent is to provide students with a limited policy or biophysical background with conceptual tools to frame each discipline in order to orient students to the program. The workshop is team-taught and is three full days in length.
 - b. **Pre-Internship Workshop**
This two day workshop reviews the internship requirements, aids students in writing resumes and cover letters, discusses interviewing practices and examines student/employer relationships. It is held during the first week after classes end in December of each year.
6. **Internship Requirements**
 - a. All students are required to complete an environmental policy internship (ENVP 6030) with a relevant government office, non-governmental organization, community group or business. Internships are normally selected from a list of approved organizations that is maintained by the Internship Officer and Graduate Officer. Internship placements may be outside the Corner Brook area and possibly outside Newfoundland and Labrador. Final decisions for internship placements rest with the Graduate Officer in consultation with the Internship Officer.
 - b. Internships are usually completed in the Spring semester of each year.
 - c. Internships are for full-time employment hours for the duration of the semester (12 weeks). Part-time internships over longer periods may be considered and will require approval from the Internship Officer and the Graduate Officer.
 - d. A competition for internships is organized by the Internship Officer. By entering the competition, students give permission for the Internship Officer to supply their university transcripts to potential employers. Students who do not wish to accept an internship arranged by the Internship Officer shall be responsible for finding an alternative acceptable to the Internship Officer in consultation with the Graduate Officer.
 - e. Students must attend scheduled pre-internship orientation workshop, professional development and exit meeting.
 - f. Each Internship placement is supervised and evaluated by the Internship Officer, the on-site Supervisor assigned by the employer and the Graduate Program Coordinator. The internship shall consist of two components:
 - i. On-Site Student Performance as evaluated by the Internship Officer in consultation with the on-site Supervisor assigned by the employer.
 - ii. An Internship Report graded by the Internship Officer or the Graduate Officer in consultation with the on-site Supervisor assigned by the employer.
 - g. Evaluation of the Internship shall result in one of the following final grades: Pass, or Fail.
A student must obtain a Pass in both the On-Site Student Performance and the Internship Report to obtain a final grade of Pass.
If a student fails to achieve the internship standards specified above, the student may be required to withdraw from the program. Such a student may reapply to the program after a lapse of two semesters, at which time the student will be required to complete a further internship with satisfactory performance before being admitted to any further academic term in the Faculty. An internship may only be repeated once.
 - h. Students who voluntarily withdraw from the internship without prior approval from the Internship Officer and the Graduate Officer, or who conduct themselves in such a manner as to cause the host organization and the Internship Officer to terminate the placement, will normally be awarded a grade of FAIL in the internship.
 - i. Students are not permitted to drop internships without prior approval of the Internship Officer in consultation with the Graduate Officer. The Internship Officer will make a recommendation to the Graduate Officer who will make the final decision. Students who drop an internship without permission, who fail to honour an agreement to work with a host organization, or who conduct themselves in such a manner as to cause their discharge from the internship position will normally be awarded a failed grade for the internship. Permission to drop an internship does not constitute a waiver of degree requirements, and students who have obtained such permission must complete an approved internship in lieu of the one dropped.
7. All students are required to complete the Graduate Research Integrity Program (GRIP) - GRAD 9991.
8. Students in the M.A. in Environmental Policy shall meet the minimum residency of at least two semesters required under **General Regulation, Registration - Period of Study** of the University Calendar. Students are encouraged to meet this residency requirement in the first two semesters of their program.
9. All students will be required to present a seminar on their thesis or research paper in the final semester of their program as part of their thesis or research paper requirements. For applicable students, the thesis will be examined in accordance with the **General Regulations - Theses and Reports** of the School of Graduate Studies.

7.10.6 Evaluation

1. Candidates for the Master of Arts in Environmental Policy degree must obtain a grade of B or better in all program courses.
2. Candidates who receive a grade of less than B in a program course will be permitted to remain in the program, provided the course is repeated and passed with a grade of B or better. Alternatively, the candidate may, on the recommendation of the GCEP, and with the approval of the Dean of Graduate Studies, substitute another graduate course. Only one course repetition or substitution will be permitted during the candidate's program after which the candidate shall be required to withdraw from the program.

7.10.7 Courses

The schedule of courses for the Master of Arts in Environmental Policy is as follows:

Table I - Master of Arts in Environmental Policy Schedule of Courses

Term	Thesis Option	Research Paper Option
Fall Semester 1	Policy and Science Internship Workshop Two required courses from Table II One elective from Table II or Table III Pre-Internship Workshop	Policy and Science Internship Workshop Two core courses from Table II One elective from Table II or Table III (one elective, either in the Fall or Winter Semester, shall be from Table II) Pre-Internship Workshop
Winter Semester 2	Two required courses from Table II GRAD 9991 - Graduate Research Integrity Program (GRIP)	Two core courses from Table II One elective from Table II or Table III (one elective, either in the Fall or Winter Semester, shall be from Table II) GRAD 9991 - Graduate Research Integrity Program (GRIP)
Spring Semester 3	Environmental Policy 6030 Internship	Environmental Policy 6030 Internship

Table II - Master of Arts in Environmental Policy Courses - Grenfell Campus

Required Courses	Elective Courses
6000 Foundations of Environmental Policy and Administration 6001 Applied Environmental Problem Solving: A Case Based Approach 6002 Research Design and Methods 6003 Environmental Political Thought	6052 Political Economy, Political Ecology and Policy 6053 Ecological Economics 6054 Labour and Environmental Policy 6055 Environmental Impact Assessment (cross-listed as EVST 4000) 6056 Risk Assessment and Analysis 6057 Energy Policy 6058 Management and Regulation of Water Resources 6059 Natural Resources Policy and Administration 6520-30 Special Topics Courses

Table III - Master of Arts in Environmental Policy - Policy Relevant Courses - St. John's Campus

<p>Biology 7551 Fisheries Resource Management</p> <p>Business 8210 Labour Relations 9329 Labour Law</p> <p>Economics 6014 Topics in Public Sector Economics 6020 Economics of Nonrenewable Natural Resources 6021 Economics of Renewable Natural Resources 6022 Environmental Economics 6023 Advanced Fisheries Economics 6024 Topics in Resource Economics</p> <p>Engineering 9601 Environmental Pollution and Mitigation (cross-listed as ENVS 6004) 9622 Environmental Statistics 9624 Air Pollution (cross-listed as ENVS 6008) 9625 Environmental Impacts of Offshore Oil and Gas Operations 9629 Environmental Policy and Regulations 9630 Pollution Prevention</p> <p>Environmental Science 6000 Environmental Science and Technology 6001 Earth and Ocean Systems 6002 Environmental Chemistry and Toxicology 6003 Applied Ecology</p>	<p>Fisheries Resource Management 6003 Fisheries Economics 6004 Fisheries Policy 6005 Fisheries Planning and Development 6006 Business Management for Fisheries</p> <p>Geography 6204 Sustainable Community and Regional Development 6250 Conservation and Sustainability of Natural Resources 6251 Survey Design, Questionnaire Development and Techniques of Data Collection 6300 Problems in Fisheries Geography 6500 Cultural Geography 6700 Political Geography</p> <p>Medicine 6288 Policy and Decision Making 6722 Environmental Health</p> <p>Political Science 6710 Intergovernmental Relations 6740 Public Administration 6790 Public Policy Process</p> <p>Sociology 6140 The Community 6350 Environmental Sociology</p>
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7.11 Ethnomusicology

Professor and Dean

E. Waterman

Professor and Associate Dean

M. Volk

The Master of Arts program in Ethnomusicology is administered by the School of Music in consultation with the Department of Folklore, and generally in response to recommendations from an Interdisciplinary Advisory Committee with representation from both academic units, chaired by the Program Co-ordinator.

The Degree of Master of Arts in Ethnomusicology is offered by part-time and full-time study. While it is normally a course work degree, a thesis option is available upon application. Fieldwork is often a requirement both for independent research and course work. The resources of the Memorial University of Newfoundland Folklore and Language Archive are available to graduate students in Ethnomusicology.

7.11.1 Qualifications for Admission

Applicants may be admitted to the program if they have at least a B+ average with a B.Mus. Degree or other Degree in the Humanities or Social Sciences with evidence of specialization in music. Applicants whose professional music training took place outside the university system are also encouraged to apply, provided they have the academic equivalent of the qualifications described above. Applicants from a discipline other than Music will be expected to demonstrate the following skills:

- Competent performance in any musical tradition, as judged by a musician knowledgeable about that tradition.
- Knowledge of culturally appropriate language for discussion of performance techniques in that tradition.
- Ability to discuss musical details on the basis of aural and/or written sources, as appropriate to that tradition.

Candidates for admission may, at the discretion of the Interdisciplinary Advisory Committee, be required to write diagnostic examinations measuring skills and knowledge in music literacy, theory, or aural perception. Candidates with deficiencies in any of these areas may be required to take remedial course work prior or in addition to the required program.

7.11.2 Program of Study

The M.A. program will normally be completed within five consecutive semesters of full-time study. The degree is normally taken by completing course work and a major research paper. In special circumstances, a student may apply to complete the degree by completing course work and a thesis. Demonstration of competence in a language other than English may be required if warranted by the research proposed by the student.

1. Course Work M.A.

- a. Students must normally complete a minimum of 24 credit hours plus a major research paper (Music 7002). Further courses beyond the minimum number may be required, depending on the background of the student. The required courses are:
 - i. Music 7001; Folklore 6010, 6030.
 - ii. One of Folklore 6100 or Music 6002.
 - iii. One area or genre studies course (3 credit hours) relevant to the research of the student.
 - iv. Nine credit hours to be selected from the Music and Folklore courses listed below (with the approval of the Interdisciplinary Advisory Committee); one elective (3 credit hours) may be a relevant course offered in another discipline (with the approval of the Interdisciplinary Advisory Committee).
- b. Research paper (Music 7002) on a topic chosen by the student with his/her supervisor's approval. Proposals for topics and supervisors will be vetted by the Interdisciplinary Advisory Committee no later than the beginning of the third term of study. The paper will normally demonstrate the student's ability to apply methodologies and theoretical constructs, learned in the courses taken, to a specific repertory, or performance context.

2. Thesis M.A. (available by special application to the Interdisciplinary Advisory Committee)

- a. Students must normally complete a minimum of 21 credit hours plus a thesis. The required courses are:
 - i. Music 7001; Folklore 6010, 6030.
 - ii. One of Folklore 6100 or Music 6002.
 - iii. One area or genre studies course (3 credit hours) relevant to the research of the student.
 - iv. Six credit hours to be selected from the Music and Folklore courses listed below (with the approval of the Interdisciplinary Advisory Committee); one elective (3 credit hours) may be a relevant course offered in another discipline (with the approval of the Interdisciplinary Advisory Committee).
- b. Thesis submitted in accordance with General Regulation **Theses and Reports** of the School of Graduate Studies. A thesis proposal, consisting of a statement of topic, working title, plan of research, and preliminary bibliography, with the name of the preferred Supervisor, shall be submitted by the candidate to the Interdisciplinary Advisory Committee no later than the beginning of the third term of study.

7.11.3 Courses

Theories and Methods:

Music 6001 Research Methods
 Music 6002 Graduate Seminar
 Music 7001 Research Problems and Methods in Ethnomusicology
 Music 7002 Research Paper
 Folklore 6010 Survey of Folklore Genres and Processes
 Folklore 6020 Field and Research Methods
 Folklore 6030 Folklore Theories
 Folklore 6040 Feminist Theories: Perspectives and Issues
 Folklore 6080 Vernacular Theories
 Folklore 6090 Ethnology
 Folklore 7100 Advanced Folkloristics II: Research and Ethnography

Form and Performance:

Music 7005 Performance Option
 Folklore 6100 Song and Music
 Folklore 6120 Ballad
 Folklore 6130 Folk Music Canons and Documentary Sound Recordings
 Folklore 6200 Folktale
 Folklore 6210 Legend
 Folklore 6220 Personal Experience Narrative
 Folklore 6250 Language and Play
 Folklore 6260 Ethnography of Communications
 Folklore 6300 Ethnography of Belief
 Folklore 6310 Health Systems
 Folklore 6350 Custom
 Folklore 6360 Traditional Drama
 Folklore 6400 Material Culture
 Folklore 6410 Vernacular Architecture
 Folklore 6420 Art and the Artifact

Folklore 6430 Food and Culture
Folklore 6720 Folklore and Literature

Area and Genre Studies:

Music 7010 World Music: Music of Asia and Oceania
Music 7011 World Music: Music of Africa and the Americas
Music 7012 Canadian Musical Traditions
Music 7013 Music and Culture
Music 7017 Folksong
Music 7018 Jazz and Blues: The Roots of Popular Music
Folklore 6120 Ballad
Folklore 6600 Folklore of Newfoundland
Folklore 6610 Folklore of Canada
Folklore 6620 Folklore of the United States
Folklore 6630 Folklore of the British Isles
Folklore 6770 The Global and the Local

Social Identities:

Music 7006 Urban Ethnomusicology
Music 7007 Music in the Study of Gender, Race and Class
Music 7009 Music and Place
Folklore 6510 Occupational Folklore
Folklore 6551 Indigenous Expressive Cultures in Cross-cultural Encounter
Folklore 6730 Folklore and Gender
Folklore 6780 Ethnicities

Public and Applied Ethnomusicology and Folklore:

Music 6700 Music Industries Seminar
Music 6750 Music Industries Internship (2 credit hours)
Folklore 6740 Public Sector Folklore
Folklore 6760 Archiving
Folklore 6790 Museums: Perspectives and Practices
Folklore 6800 Applied Folklore

Interdisciplinary Perspectives:

Music 7008 Media Studies
Folklore 6700 Folklore and Culture
Folklore 6710 Oral Tradition and Oral History
Folklore 6750 Popular Culture: Theory and Debate

Independent Study:

Music 7026-29 Directed Reading in Ethnomusicology
Folklore 6570-79 Reading Courses in Folklore

Special Topics:

Music 6800-09 Special Topics in Music
Music 7800-09 Special Topics in Music
Folklore 6511-29 Special Topics in Folklore
Folklore 6570-79 Reading Course in Folklore

7.12 Folklore

Professor and Head of the Department

D. Tye

The Degree of Master of Arts in Folklore is offered by part-time and full-time study. The program normally requires extensive fieldwork research in Newfoundland and/or the Maritimes.

Integral to the teaching of the Department of Folklore is work of the Memorial University of Newfoundland Folklore and Language Archive.

7.12.1 Program of Study

1. Applicants may be admitted to the graduate program if they have an average of at least grade 'B' in no fewer than 36 credit hours in Folklore or in any other discipline in the Humanities or Social Sciences.
2. The M.A. program will normally be completed within six consecutive semesters (i.e., a two-year period). The Degree of Master of Arts in Folklore may be taken by course work and comprehensive examination, course work and thesis, or course work and co-operative education work terms. All options are available to full-time and part-time students. However, the work term component of option C cannot be completed on a part-time basis.

a. **M.A. With Thesis:**

- i. Students choosing to do the M.A. with thesis must normally complete a minimum of 24 credit hours plus a thesis. Normally, the required courses are:
 - 6010, 6020, and 6030, normally taken as an integrated foundation in the Fall semester.
 - At least one of the following: 6060, 6100, 6120, 6130, 6200, 6210, 6220, 6250, 6260, 6360, 6720.
 - At least one of the following: 6070, 6300, 6310, 6350, 6370, 6400, 6410, 6420, 6430.
 - Nine additional credit hours to be selected from courses in the groups listed above or from the other courses offered by the Department.
- ii. A brief thesis pre-proposal, including a statement of topic, working title, plan of research, ethics statement, preliminary bibliography, and the name of a preferred Supervisor, shall be submitted no later than the end of the candidate's second semester. A full proposal shall normally be submitted to the Department of Folklore and orally presented before members of the faculty by the end of the candidate's fourth semester. The written thesis proposal should be made available to faculty members at least two weeks prior to the scheduled date of a student's oral presentation of the proposal. Following approval of the thesis proposal and consultation with the candidate, the Supervisor and thesis topic will be recommended to the Dean.

b. M.A. With Comprehensive Examination:

- i. Students choosing to do the M.A. with comprehensive examination must normally complete a minimum of 30 credit hours plus comprehensive examination. Normally, the required courses are:
 - 6010, 6020, and 6030, normally taken as an integrated foundation in the Fall semester.
 - At least one of the following: 6060, 6100, 6120, 6130, 6200, 6210, 6220, 6250, 6260, 6360, 6720.
 - At least one of the following: 6070, 6300, 6310, 6350, 6370, 6400, 6410, 6420, 6430.
 - Fifteen additional credit hours to be selected from courses in the groups listed above or from the other courses offered by the Department.
- ii. Each candidate selecting the M.A. with comprehensive examination option shall normally submit, by the end of the candidate's second semester, written notification of intention to take comprehensives.
- iii. Each candidate selecting this option shall normally write the comprehensive examination at the end of the candidate's fifth semester in the program. The comprehensive examination will be graded by a comprehensive examination committee appointed by the Dean of Graduate Studies on the recommendation of the Head of the Department, in accordance with **General Regulations** governing the School of Graduate Studies.

c. M.A. With Public and Applied Folklore Co-operative Education Work Terms:

- i. Students choosing to do the M.A. with Public and Applied Folklore Co-operative Education option must normally complete a minimum of 24 credit hours plus two co-operative education work terms. The required courses are:
 - 6010, 6020, and 6030, normally taken as in integrated foundation in the Fall semester.
 - 6740 or 6800 and at least one additional course selected from the following: 6551, 6740, 6760, 6790, 6800.
 - At least one of the following: 6100, 6120, 6130, 6200, 6210, 6220, 6250, 6260, 6360, 6720.
 - At least one of the following 6300, 6310, 6350, 6370, 6400, 6410, 6420, 6430.
 - Three additional credit hours to be selected from courses in the groups listed above or from the other courses offered by the Department.
 - 601W and 602W.
- ii. The dates for starting and finishing each work term are shown in the **University Diary**.
- iii. A competition for work term employment is organized by the Division of Co-operative Education (DCE) in cooperation with the Department of Folklore. Students may also obtain their own work term jobs outside the competition. Such jobs must be confirmed by letter from the employer and approved by the Head of Folklore and by the DCE on or before the first day of the work term. Work term jobs may be outside St. John's and possibly outside Newfoundland and Labrador. Students who do not wish to accept a work term job arranged by DCE shall be responsible for finding an alternative acceptable to the Head of Folklore and the DCE. By entering the competition, students give permission for the DCE to supply their Memorial University of Newfoundland transcripts to potential employers.
- iv. Each work term placement will be supervised by the candidate's program Supervisor, the on-site Supervisor assigned by the employer and the DCE Co-ordinator. The overall evaluation of the work term is the responsibility of the program Supervisor, on-site Supervisor and DCE Co-ordinator. The work term shall consist of two components:
 - On-the-job Student Performance as evaluated by the on-site Supervisor and DCE Co-ordinator, in consultation with the program Supervisor.
 - A Work Report graded by the program Supervisor in consultation with the on-site Supervisor.
- v. Evaluation of the work term will result in the assignment of one of the following final grades:
 - *Pass with Distinction*: Indicates EXCELLENT PERFORMANCE in both the work report and work performance.
 - *Pass*: Indicates that PERFORMANCE MEETS EXPECTATIONS in both the work report and work performance.
 - *Fail*: Indicates FAILING PERFORMANCE in the work report and/or the work performance.

If a student fails to achieve a final grade of *Pass* or *Pass with Distinction*, and provided the student has not failed to achieve a grade of 'B' or better in any program course, the student may request to repeat the work term component. The request will be considered by the Department Head in consultation with the program Supervisor and must include a proposal for a new work term placement. Only one work term repeat will be permitted in the student's program. Alternatively, the student may apply for a change of route to the thesis or comprehensive examination program option.

7.12.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, normally after consultation with the Head of the Department or the Graduate Studies Administrator, and as far as the resources of the Department will allow. Courses are structured according to the categories of: Theories and Methods, Issues, Form and Performance, Special Topics, Regional, National and International Heritage, Social Identities, Public and Applied Folklore, Interdisciplinary Perspectives, and Required (Ph.D.):

Cooperative Education Work Terms

601W Work Term I

602W Work Term II

Theories and Methods

6010 Survey of Folklore Genres and Processes

6020 Field and Research Methods

6030 Folklore Theories

6040 Feminist Theories: Perspectives and Issues

6080 Vernacular Theories

6090 Ethnology

Issues

6050 Issues in Folkloristics

6060 Issues in Oral Tradition and Performance

6070 Issues in Folklife

Form and Performance

6100 Song and Music

6120 Ballad

6130 Folk Music Canons and Documentary Sound Recordings

6200 Folktale
 6210 Legend
 6220 Personal Experience Narrative
 6250 Language and Play
 6260 Ethnography of Communications
 6300 Ethnography of Belief
 6310 Health Systems
 6350 Custom
 6360 Traditional Drama
 6370 Ritual, Festival and Public Display
 6400 Material Culture
 6410 Vernacular Architecture
 6420 Art and the Artifact
 6430 Food and Culture
 6720 Folklore and Literature

Special Topics

6511-29 Special Topics in Folklore
 6550 Special Research in Folklore
 6551 Indigenous Expressive Cultures in Cross-cultural Encounter
 6552-69 Special Research in Folklore
 6570-79 Reading Course in Folklore

Regional, National and International Heritage

6600 Folklore of Newfoundland
 6610 Folklore of Canada
 6620 Folklore of the United States
 6630 Folklore of the British Isles
 6640 Traditional Culture of Scotland
 6650 Culture and Traditions of Ireland
 6660 Folklore of the Francophone Regions
 6690 International Folklore

Social Identities

6510 Occupational Folklife
 6730 Folklore and Gender
 6770 The Global and the Local
 6780 Ethnicities

Public and Applied Folklore

6740 Public Sector Folklore
 6760 Archiving
 6790 Museums: Perspectives and Practices
 6800 Applied Folklore

Interdisciplinary Perspectives

6700 Folklore and Culture
 6710 Oral Tradition and Oral History
 6750 Popular Culture: Theory and Debate

Required (Ph.D.)

7000 Advanced Folkloristics I
 7100 Advanced Folkloristics II Research and Ethnography

Note: Credit may not be obtained for both 6010 and the former 6110; 6020 and the former 6111; 6030 and the former 6112; 6100 and the former 6430; 6120 and the former 6445; 6300 and the former 6230; 6350 and the former 6230; 6400 and the former 6501; 6720 and the former 6460.

7.13 French

Associate Professor and Head of the Department

A. Thureau

7.13.1 Program of Study

1. The Degree of Master of Arts in French Studies may be completed by full-time or part-time study. "French Studies" may take the form of the study of the French language or of francophone literature, including the study of literary history, criticism or theory. It may also include the study of French-language cinema or of other aspects of francophone civilization.
2. Candidates who are practicing teachers of French and wish to pursue French studies in conjunction with studies of the teaching of French may opt to pursue the Master of Arts and Education (Education and Francophone Literatures and Cultures) degree jointly offered by the Faculty of Arts, Department of French and Spanish and the Faculty of Education.
3. Applicants for the M.A. program in French Studies are normally expected to have completed the Honours Degree with a second-class standing or better. An applicant who does not hold an Honours Degree or its equivalent may be required to complete such additional undergraduate courses as the Department considers necessary, prior to admission or as part of the program.
4. The M.A. program in French Studies will consist of 15 credit hours in graduate courses (normally requiring 2 or 3 semesters of full-time study), plus research activities and a thesis of approximately 80 pages. The 15 credit hours shall include 6008 and 6009, normally completed in consecutive semesters. The remaining 9 credit hours shall be obtained by completion of three courses chosen from those in three of the five groups listed in the **Courses** section below. The language of the thesis will be French. The thesis proposal, after being approved by the Supervisor, will be submitted by the candidate, normally before the end of the third semester of studies, to the Departmental Graduate Studies Committee, who will decide whether or not to grant its approval.
5. Each candidate's program of study must be approved by the Departmental Graduate Studies Committee.
6. A paper drawn from the thesis will be presented at a Departmental seminar or in another forum approved by the Departmental Graduate Studies Committee. Normally, this presentation will take place at some time between submission of the final draft thesis to the Supervisor and the submission of the thesis to the School of Graduate Studies.
7. The approval of the Departmental Graduate Studies Committee must be obtained before the thesis is forwarded to the School of

Graduate Studies for examination.

8. In the final version of the M.A. thesis and other written assignments for M.A. courses, the quality of written French must be of a standard acceptable to the Department as represented by the Graduate Studies Committee. Normally, this will mean that the final version of such assignments will be free of spelling, lexical, and grammatical errors, and of improper use of stylistic conventions. In the case of the M.A. thesis, this requirement applies to the version submitted for examination.

7.13.2 Courses

A selection of the following graduate courses will be offered to meet candidates' requirements, as far as the resources of the Department will allow:

6008* Literary Methodology and Theory I
6009* Literary Methodology and Theory II

Historiographical, Genetic, Thematic, Hermeneutical or other historical or critical approaches to French Studies

6032 Genetic Criticism and Exegesis
6102 History of the French Language

Psychoanalytical, Ethnological or Anthropological approaches to French Studies

6020 Literature and Psychoanalysis
6021 Mythocriticism
6130-39 Personal/Intimate Literature

Sociological or Socio-historical approaches to French Studies

6022 History, Society, Ideology and Texts
6101 The Female Voice: Women's Writing and its Contribution to the Development of French and Francophone Texts
6110-19 Paraliterature and Traditional Culture

Linguistic, Semiotic, Poetic, Rhetorical or Pragmatic approaches to French Studies

6011 General Theory of the French Language
6030 Grammar of the Text
6031 Narratology
6140-49 Genres and Discursive Forms

Other approaches to French Studies

6120-29 Texts/Images/Sounds
6150-59 Special Topics

French and Spanish Courses for Students in Other Disciplines

French 6900 Reading in French
Spanish 6900 Reading in Spanish

Note: *Credit may not be obtained for both French 6008 and the former French 6006, or for both French 6009 and the former French 6006.

Français

Professeuse Agrégée et Directrice du Département

A. Thureau

- Le diplôme de Maîtrise ès Arts en Études françaises sanctionne des études à temps plein ou à temps partiel. Les études françaises comprennent l'étude de la langue et de la littérature et l'étude de l'histoire, de la critique ou de théorie littéraire, ainsi que l'étude du cinéma ou d'autres aspects des civilisations francophones.
- Les enseignants et enseignantes de français qui veulent poursuivre leurs études en français et en didactique du français peuvent choisir le programme de Maîtrise ès Arts et Éducation (Enseignement des littératures et cultures francophones) offerte par la Faculté des Arts, le Département d'études françaises et hispaniques et la Faculté d'Éducation.
- Pour être admis au programme de Maîtrise ès Arts en Études françaises, l'étudiant doit normalement détenir un diplôme de baccalauréat avec une spécialisation en Études françaises et une note moyenne d'au moins B. Le département pourra obliger toute personne ne détenant pas ce diplôme ou son équivalent à suivre certains cours du premier cycle avant d'être admis au programme de deuxième cycle ou pendant ses études de maîtrise.
- L'option en Études littéraires comprend quinze crédits de cours, ce qui exigera normalement 2 ou 3 trimestres d'études à temps plein et un mémoire d'environ 80 pages rédigé en français. Tous les candidats complèteront le Fr.6008 et le Fr.6009. Normalement, ces deux cours devront être complétés en deux trimestres consécutifs. En plus, il faudra compléter 3 cours choisis parmi ceux qui font partie de 3 des 5 groupes identifiés dans la section **COURS**. Le projet de mémoire, qui est approuvé par son directeur, doit être officiellement présenté par le candidat au Comité des Études de deuxième cycle, avant la fin du troisième trimestre, pour son approbation.
- Le programme d'études du candidat doit être approuvé par le Comité des Études de deuxième cycle.
- Une communication tirée du mémoire sera présentée dans le cadre des séminaires départementaux ou dans une autre réunion approuvée par le Comité des Études de deuxième cycle. Normalement, cette présentation se fera entre la soumission à son directeur et sa soumission définitive à l'École des Études supérieures.
- Avant d'être soumis à l'École des Études supérieures, le mémoire doit être proposé au Comité des Études de deuxième cycle, qui doit en autoriser le dépôt.
- Dans la version finale du mémoire et des autres travaux préparés pour les cours de maîtrise, la qualité du français écrit doit être d'un niveau acceptable au département, qui est représenté par le Comité des Études de deuxième cycle. Ainsi, la version finale de ces travaux ne contiendra-t-elle pas, normalement, d'erreurs orthographiques, lexicales, grammaticales, stylistiques et protocolaires. Pour ce qui est du mémoire, cette exigence s'applique à la version remise aux examinateurs.

Cours

Un choix des cours de deuxième cycle suivants sera offert afin de répondre aux besoins des étudiants inscrits au programme de maîtrise selon les ressources disponibles au département:

6008* Méthodologie et théorie de la littérature I
6009* Méthodologie et théorie de la littérature II

Approche historiographique, génétique, thématique, herméneutique ou autrement historique ou critique:

6032 Génétique et critique
6102 Histoire de la langue française

Approche psychanalytique, ethnologique ou anthropologique:

6020 Psychanalyse et littérature
 6021 Mythocritique
 6130-39 Littérature personnelle/intime

Approche sociologique ou socio-historique:

6022 Histoire, société, idéologie et textes
 6101 La voix féminine et le féminisme
 6110-19 Paralittérature et cultures traditionnelles

Approche linguistique, sémiotique, poétique, rhétorique ou pragmatique:

6011 Théorie générale de la langue française
 6030 Grammaire du texte
 6031 Narratologie
 6140-49 Discours et genres

Autres approches aux Études françaises:

6120-29 Textes/Images/Sons
 6150-59 Sujets spéciaux

Cours de français et d'espagnol pour étudiants d'autres disciplines

Français 6900 Lecture en français
 Espagnol 6900 Lecture en espagnol

* Nota / Note: Les étudiants ne peuvent obtenir de crédit pour le Français 6008 et le Français 6006 (désormais supprimé) ni pour le Français 6009 et le Français 6006.

7.14 Geography

Professor and Head of the Department

C. Mather

7.14.1 Program of Study

1. The degrees of Master of Arts and Master of Science are offered in Geography by full-time or part-time study.
2. Admission requirements are set forth in the **General Regulations** of the School of Graduate Studies and Degree Regulations for **Master of Arts and Master of Science**.
3. The deadline for submission of applications for admission is January 15. Candidates will normally commence their programs in the Fall semester.
4. An applicant will be admitted to a graduate program only if a faculty member agrees to act as Supervisor. A supervisory committee will be established after admission, normally consisting of the Supervisor and two other individuals, one of whom will normally be a member of the Department.
5. Major research areas for graduate study at the master's level are cultural, political, historical, economic, urban, resource management, community and regional development, geomorphology, Quaternary environments, climatology and geographic information sciences.
6. Candidates will register for the M.A. program if their fields of interest lie in an area of Human Geography or for the M.Sc. if their fields of interest are in Physical Geography or Geographic Information Sciences.
7. It is expected that the program of study and research for the M.A. or M.Sc. will normally be completed in a maximum of two years of full-time work, or three years of part-time work.
8. Candidates must successfully complete a minimum of 12 credit hours of graduate program courses with a minimum grade of B in each. Geography 6000 and 6001 will be required courses for all candidates who have not already completed equivalent courses at the Honours or post-graduate level.
9. Candidates whose undergraduate degree is not in geography will normally be required to complete some additional undergraduate program courses during their first year of study, in addition to the required graduate program courses. Normally four such undergraduate courses will be required, and a minimum grade of 70% must be obtained in each.
10. Each candidate will be required to present a seminar on his or her research to the Department.
11. Each candidate must submit a thesis based on his or her own original research. This thesis will be examined in accordance with the **General Regulations** of the School of Graduate Studies.

7.14.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow:

6000 Development of Geographical Thought and Practice I
 6001 Development of Geographical Thought and Practice II
 6002 Directed Readings in Geography
 6100 Research Techniques in A Selected Field of Geography I
 6101 Research Techniques in A Selected Field of Geography II
 6120 Geospatial Modelling and Analysis
 6150 Environmental Remote Sensing and Image Analysis
 6200 Economic Geography I
 6201 Economic Geography II
 6204 Sustainable Community and Regional Development
 6250 Conservation and Sustainability of Natural Resources
 6251 Survey Design, Questionnaire Development and Techniques of Data Collection
 6300 Problems in Fisheries Geography
 6400 Fluvial Geomorphology
 6401 Glacial Geomorphology
 6402 Coastal Geomorphology
 6410 Climatology
 6420 Quaternary Geography

6430 Biogeography
 6500 Cultural Geography
 6600 Historical Geography
 6700 Political Geography
 6800 Urban Geography
 6821 Advanced Computer Mapping
 6900 Graduate Seminar in Regional Geography
 6990-95 Special Topics in Geography

7.15 German

Associate Professor and Head of the Department

E. Warkentin

7.15.1 Program of Study

The degree of Master of Arts (M.A.) is offered in German Language and Literature and may be taken by full-time or part-time study.

1. Candidates for the M.A. degree in German are normally expected to have completed an Honours degree with a minimum of second-class standing. In addition to the general requirements, candidates will be expected to have acquired a superior knowledge of the spoken and written language as determined by the Department prior to admission.
2. Students will be required to demonstrate superior German language skills as determined by the Department prior to admission to the program.
3. As part of the admissions process, prospective students must submit a non-binding outline of the area in which they would like to write their thesis.
4. Students may choose from two modes of completing the M.A. program, in accordance with the Graduate Studies **Regulations Governing the Degree of Master of Arts**:
 - a. Candidates complete at least 18 credit hours of course work and submit a thesis. The entire program of study and research will normally take one year of full-time study. The M.A. thesis will be based on research conducted by the student.
 - i. The thesis will be examined in accordance with **General Regulation, Thesis and Reports**.
 - ii. Normally, one of the assigned examiners of the thesis will be external to the Department.
 - b. Candidates complete at least 18 credit hours of course work and write a comprehensive examination. The entire program of study and research will normally take one year of full-time study.
 - i. The comprehensive examination shall be examined in accordance with the **General Regulations, Comprehensive Examinations**.
 - ii. Material to be covered on the M.A. comprehensive exam is normally determined by consultation between the student and the Head of the Department (or designate). The exam is written in two sittings: one exam will cover the student's chosen area and the other will cover the student's reading list and literary terminology. A final component of the comprehensive exam is an oral examination on the eras or issues covered in the written portion of the exam.
5. All students, regardless of the mode of completing the requirements for the M.A., will be required to complete German 6103.

7.15.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6000 Issues in Modern Technology, Literature and Culture
 6001 Issues in Literature on the Edges of Society
 6100 Issues in the History of the German Language
 6103 Bibliography and Research Methods
 6200 Issues in Early German Literature and Culture I
 6201 Issues in Early German Literature and Culture II
 6300 Issues in Early Modern German Literature and Culture I
 6301 Issues in Early Modern German Literature and Culture II
 6800 Issues in Modern German Literature and Culture I
 6801 Issues in Modern German Literature and Culture II
 6900 Issues in Contemporary German Literature and Culture I
 6901 Issues in Contemporary German Literature and Culture II
 6903 Issues in Propaganda and Censorship
 7000 Special Subject or Author I
 7001 Special Subject or Author II
 7002-7020 Special Topics in German Studies

7.16 History

Professor and Head of the Department

S. Cadigan

The degrees of Doctor of Philosophy and Master of Arts are offered in History by full-time or part-time study.

7.16.1 Program of Study

1. The Department of History offers M.A. programs in a broad range of geographical and thematic areas. Students in the M.A. program will choose a thesis or non-thesis option.
2. M.A. candidates who choose the non-thesis option shall complete a minimum of 24 credit hours, 18 of which shall normally be 6190, 6200 and 6999.
3. M.A. candidates who choose the thesis option shall complete 9 credit hours, 6 of which shall normally be 6190 and 6200, plus a thesis.
4. Where a student's major research project requires him or her to read a language other than English, he or she must demonstrate a

reading knowledge of this language through an exam or other method subject to the approval of the Graduate Committee.

7.16.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow:

6000 Advanced Studies in Newfoundland History
 6010 Advanced Studies in Canadian History
 6020 Advanced Studies in the History of the United States
 6030 Advanced Studies in French History
 6040 Advanced Studies in British History
 6050 Advanced Studies in German History
 6060 Advanced Studies in North Atlantic History
 6070 Advanced Studies in Social History
 6075 Advanced Studies in Labour and Working-Class History
 6080 Advanced Studies in Intellectual History
 6090 Advanced Studies in Women's History
 6095 Advanced Studies in Ethnohistory
 6100 Advanced Studies in Military History
 6105 Advanced Studies in Diplomatic History
 6110 Advanced Studies in Maritime History
 6120 Advanced Studies in Economic and Business History
 6125 Medical Science and Social Responsibility in Health Care: Aspects of Medical History (*cross-listed as Medicine 6420*)
 6130 Quantification and Measurement in History
 6140-59 Research in Special Topics
 6160-79 Reading Courses (Special Topics)
 6190 Theory and Method
 6200 Masters Seminar I
 6999 Masters Research Paper (12 credit hours)

7.17 Linguistics

Professor and Head of the Department

M. MacKenzie

The degrees of Master of Arts and Doctor of Philosophy are offered in Linguistics.

7.17.1 Program of Study

1. The Linguistics Department offers the M.A. program with both a thesis and a non-thesis option. The M.A. with thesis option is intended for those who have completed an undergraduate major in Linguistics with satisfactory standing (a B+ average in Linguistics courses). Students interested in the thesis option who have an excellent undergraduate record and a well-defined research plan, yet who do not possess the equivalent of an undergraduate major, will be required to take additional undergraduate and/or graduate courses in Linguistics. Other students are encouraged to apply for the M.A. without thesis option.
2. The M.A. with thesis option is normally a two-year program consisting of at least 15 credit hours of graduate courses (including Linguistics 7000 and 7001), plus a thesis.
3. The M.A. without thesis option is normally a two-year program consisting of at least 21 credit hours of graduate courses (including Linguistics 7000 and 7001), plus a research project (Linguistics 6999), which consists of a major research paper in an approved area followed by an oral examination.
4. The M.A. in Linguistics requires proficiency in a language other than the candidate's first language, as demonstrated by a minimum B grade in a second-year undergraduate language course, or performance satisfactory to the Department in an arranged reading proficiency test. A working or structural knowledge of other languages may also be required for particular programs (e.g., Latin, Greek or Sanskrit for historical Indo-European linguistics, or courses in the series Linguistics 6050-59 or the former 6010-6041).
5. All M.A. students are advised to consult the Linguistics department's Graduate Handbook for details on program requirements and for general information relating to the graduate program.

7.17.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of students, as far as the resources of the Department will allow. Full information is to be found in the Department's Graduate Handbook.

6050-54 Structure of a North American Aboriginal Language
 (Credit restriction: Except where an exemption is supplied by the Head of the Department, a student may not obtain credit for more than one course in the 6050-54 series. Students may not obtain credit for any of the previously offered 6010, 6011, 6020, 6021, 6030, 6031, 6040, 6041 in addition to a course in the 6050-54 series.)
 6055-59 Structure of an Uncommonly-Taught Language (Credit restriction: Except where an exemption is supplied by the Head of the Department, a student may not obtain credit for more than one course in the 6055-59 series.)
 6100 Issues in Morphosyntax (Credit may not be obtained for both Linguistics 6100 and the former 6001)
 6110 Selected Topics in Transformational Grammar
 6115 Topics in the Syntax of a Selected Language (Prerequisite: 6001 or 6110)
 6150 Principles of Language Acquisition
 6151 Selected Topics in Language Acquisition (Prerequisite: 6150)
 6200 Generative Phonology
 6201 Selected Topics in Phonology (Prerequisite: 6200)
 6210 Sociolinguistics (Credit restriction: A student may not obtain credit for both 6210 or the former 6211.)
 6212 Selected Topics in Language and Gender
 6220 Areal and Temporal Variations in Language
 6300-9 Special Subjects
 6350 General Romance Linguistics
 6390 Franco-Canadian
 6400 Comparative and Historical Linguistics
 6401 Morphosyntactic Change (Prerequisite: 6400)

6403 Etymology (cross-listed as English 6403)
 6410 Comparative Structure of a Selected Language Family (Prerequisite: 6403 or the former 6011, 6031)
 6420 English Dialectology I
 6421 English Dialectology II
 6430 Selected Topics in Linguistic Variation (Prerequisite: 6220 or the former 6211)
 6500 Field Methods
 6601 Modern Linguistic Theories
 6700 Experimental Phonetics
 6701 Selected Topics in Experimental Phonetics (Prerequisites: 6200, 6700)
 6800 Selected Topics in Morphology
 6880 Selected Topics in Semantics
 6999 M.A. Research Project
 7000 Seminar in Research Methods
 7001 Analytical Issues in Linguistics
 7100 Topics in North American Native Languages (Prerequisites: a course from series 6050-6054 or the former 6011, 6031, 6041)
 7200 Advanced Topics in Syntax (Prerequisites: 6110, plus either 6001 or 6115)
 7400 Seminar in Comparative and Historical Linguistics (Prerequisite: 6400 or 6410)
 7430 Seminar in Linguistic Variation (Prerequisite: 6430)
 7800 Seminar in Morpho-semantics (Prerequisite: 6800)
 7900-03 Special Topics in Linguistics

Note: *Appropriate equivalent credits may be given for courses taken at the Summer Institute of the Linguistic Society of America, or a similar institute. Students are encouraged to attend these institutes. They should, however, consult the Head of the Department as to what courses may be appropriate for credit.*

7.18 Philosophy

Associate Professor and Interim Head of the Department

A. Sullivan

7.18.1 Program of Study

The Degree of Master of Arts is offered in Philosophy by full-time or part-time study. The program is designed so that it may be completed in one academic year (three semesters) of full-time study.

The candidate must complete 18 credit hours - 3 credit hours from 6000, 12 credit hours from 6011-6016, any 3 credit hours from 6101-6102 - and a thesis.

Normally, a full-time candidate will complete all the 18 credit hours and submit a thesis proposal by the end of the second semester of study. A minimum of one additional semester will be spent in completing the balance of the program.

7.18.2 Courses

6000 Graduate Seminar

Author Seminars

6011 Ancient and Medieval Philosophy

6012 Modern Philosophy

6013 Contemporary Philosophy

Area Seminars

6014 Metaphysics

6015 Theory of Knowledge

6016 Ethical and Political Theory

Tutorials

6040-6099 Special Topics

6101 Selected Texts

6102 Current Issues

7.19 Political Science

Professor and Head of the Department

L. Ashworth

7.19.1 Program of Study

The Degree of Master of Arts is offered in Political Science by full-time and part-time study.

The degree of Master of Arts (M.A.) in Political Science may be taken by course work and thesis, course work and internship, or course work and research paper. The thesis, internship, and research paper options are available to full-time students. The M.A. with thesis is a two year program. The internship and research paper options are one year programs for full-time students. The thesis and research paper options are open to part-time students.

1. M.A. with Thesis:

- a. Students choosing the M.A. with thesis must normally complete a minimum of 12 credit hours in graduate program courses. These 12 credit hours are from required courses: 6000, 6010, and 2 subfield surveys (two of 6100, 6200, 6300, 6400, 6500, 6600, or 6700). Further courses beyond the minimum number may be required, depending on the background and needs of the student.
- b. Each student choosing the thesis option will submit a thesis on a subject that has been approved by the supervisory committee of the Department.
- c. Students applying for the thesis option must submit a brief (one page maximum) statement of their research interest with their application.

2. M.A. with Internship:

- a. Students choosing the M.A. with internship must normally complete a minimum of 24 credit hours in graduate program courses.

Twenty-one credit hours are from required courses: 6000, 6010, 6030, 6031, 6790, and a subfield survey (one of 6100, 6200, 6300, 6400, 6500, 6600, or 6700). Further courses beyond the minimum number may be required, depending on the background and needs of the student.

- b. Each student choosing this option will complete, normally in the Spring semester, a one-semester, full-time internship, 6030, with a political organization, government agency, or voluntary agency. Students registering for 6030 must also register for its co-requisite, 6031. The placement must normally be selected from a list of approved organizations that is maintained by the Department.

3. M.A. with Research Paper:

- a. Students who choose the M.A. with research paper option shall complete a minimum of 24 credit hours, fifteen of which shall normally be 6000, 6010, and 6999.
- b. The selection of a topic for the research paper must be approved by a faculty supervisor who will be chosen in consultation with the Department Head. The paper will be graded by the supervisor and one other member of the faculty, either from within the Department or the Department of a cognate discipline.

7.19.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

6000 Political Science Concepts
 6010 Political Science Methods
 6020 Research Design
 6030 Internship
 6031 Applied Political Research (6 credit hours)
 6100 Political Philosophy
 6200 International Politics
 6300 Comparative Politics
 6301 European Politics and Public Policy
 6350 Political Economy
 6400 Political Development
 6430 Latin American Politics
 6500 Political Behaviour
 6600 Newfoundland Politics
 6700 Canadian Politics
 6710 Intergovernmental Relations
 6720 Local Politics
 6740 Public Administration
 6770 Canadian Provincial Politics
 6780 Politics of the Atlantic Provinces
 6790 Public Policy Process
 6900-10 Special Topics
 6999 Master's Essay (9 credit hours)

7.20 Religious Studies

Professor and Head of the Department

K.I. Parker

7.20.1 General Information

The degree of Master of Arts (M.A.) is offered in Religious Studies and may be taken by full-time or part-time study.

Candidates for the M.A. in Religious Studies may choose between the M.A. with Thesis option and the M.A. with a Project option. Candidates must specify which M.A. stream they wish to pursue upon entry into the program.

1. Admission requirements are set forth in the **Regulations Governing the Degree of Master of Arts**. An applicant should have completed a minimum of 45 credit hours in Religious Studies courses at the undergraduate level with at least the grade of B in each. An applicant should have completed a minimum of 45 credit hours in Religious Studies courses at the undergraduate level with at least the grade of B in each. An applicant's overall undergraduate program must represent, to the satisfaction of the Department, a solid groundwork for graduate studies.
2. A candidate who does not hold an Honours Degree or its equivalent shall be required to complete such additional undergraduate courses as the Department may deem necessary. These courses may be required as prerequisites to admission to the program, or as an additional constituent part of the program, at the discretion of the Department.
3. Upon acceptance into the program, each candidate will be assigned a Supervisor, whose duty it shall be to assist the candidate.
4. Students will be required to satisfy the Department as to proficiency in any language or technical facility deemed necessary by the Graduate Studies Committee of the Department for successful completion of the thesis or project.

7.20.2 Program of Study

1. Thesis Option

- a. Normally, the Master of Arts program with thesis option should take two years to complete, the first of which is to be spent primarily on course work and preparation of a thesis proposal. A student accepted on a part-time basis would normally be expected to take three to five years to complete the program.
- b. Students in the M.A. program with Thesis option shall normally complete a thesis and a minimum of 12 credit hours in course work.
- c. Students may write a thesis in one of the following areas: Hinduism, classical Confucianism, philosophical Daoism, Chinese and North American Buddhism, Buddhism and psychology, Judaism, Christianity, Hebrew Bible, New Testament, religious history of Canada, religious history of Newfoundland and Labrador, medieval religious thought, religion and culture (including pop culture), New Age religious movements, ethics and social justice, philosophy of religion.
- d. Before a student begins writing his or her thesis, he/she should submit a research proposal to the Graduate Studies Committee

of the Department for approval.

- e. Students in the M.A. with Thesis Option must complete three required courses and at least one other from the course list. The three required courses are: RS 6100 Methods and Theories in Religious Studies; RS 6120 Studies in Religious Texts; and RS 6130 Religious Contexts.

2. Course-based M.A. with a Project Option

- a. Normally, the Master of Arts program with a Project option should take one year (three semesters) to complete, the first two semesters spent on course work and the third semester on completing the project.
- b. Before a student begins writing his or her project, he/she should submit a research proposal to the Graduate Studies Committee of the Department for approval.
- c. Students in the M.A. with a Project option must complete four required courses and at least two others, one of which may be from a cognate discipline (upon approval). The four required courses are: RS 6100 Methods and Theories in Religious Studies; RS 6120 Studies in Religious Texts; RS 6130 Religious Contexts; and RS 699A/B Advanced Research in Religious Studies.

7.20.3 Courses

6100 Methods and Theories in Religious Studies (*Note: Credit may not be obtained for both Religious Studies 6100 and the former Religious Studies 6000*)

6120 Studies in Religious Texts

6130 Religious Contexts

6220 Selected Topics in New Testament

6230 Selected Topics in Hebrew Bible/Old Testament

6330 Selected Topics in Judaism

6340 Selected Topics in East Asian Religious Traditions

6350 Selected Topics in South Asian Religious Traditions

6720 Selected Topics in the History of Christianity

6730 Selected Topics in the Religious History of Canada

6740 Selected Topics in the Religious History of Newfoundland and Labrador

6750 Selected Topics in Medieval Religious Thought

6820 Selected Topics in Christian Ethics

6830 Selected Topics in Religion and Culture

6840 Selected Topics in the Philosophy of Religion

6850 Selected Topics in New Age Religious Movements

6900-6910 Special Topics in the Study of Religion

699A/B Advanced Research in Religious Studies (9 credit hours)

7.21 Sociology

Associate Professor and Head of the Department

K. Stanbridge

The Degrees of Master of Arts and Doctor of Philosophy can be earned through full-time or part-time study. Area of department specialization include: Social Theory; Sociology of Culture; Criminology; Environmental Sociology; Social Inequality; Sociology of Gender; Sexuality; Health, including Occupational Health; Development; Work; Political Sociology; and Maritime Sociology. Graduate courses are taught as tutorials or small seminars.

7.21.1 Program of Study

1. Minimum admission requirements are a B average in undergraduate studies with a good undergraduate background in Sociology.
2. The M.A. Degree with thesis requires the completion of 12 credit hours in graduate courses, normally including the Graduate Seminar (6880) and Methods of Sociological Research (6040), and a thesis. In the case of full-time students, the M.A. with thesis is normally completed in two years. The first year is devoted to the completion of the required courses and the definition of the thesis research topic. The second year is devoted to the completion of the thesis.
3. The M.A. Degree by course work requires the completion of 24 credit hours, normally including the Graduate Seminar (6880), Methods of Sociological Research (6040), Social Theory (6150), Master's Research Paper (6900) and three electives. These courses should be taken during the first two semesters of full-time study. The research paper (Sociology 6900) will be supervised by a faculty member and must be presented at a Departmental seminar. The Supervisor and one other member of Department will grade the paper. The research paper should be written in the third semester of full-time study.

7.21.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6040 Methods of Sociological Research

6090-94 Special Area in Sociology

6120 Social Organization

6130 Social Stratification

6140 The Community

6150 Social Theory

6160 Theory Construction and Explanation in Sociology

6240 Sociology in Medicine

6280 Social and Economic Development

6300 Maritime Sociology

6310 Political Sociology

6320 Gender and Society

6330 Science and Technology

6340 Comparative North Atlantic Societies

6350 Environmental Sociology

6360 Sociology of Work

6370 Feminist Theory and Methods

6380 Women, Nature, Science and Technology (cross-listed as Gender Studies 6380)

6390 Sociology of Culture
 6610 Socialization
 6620 Current Topics in Social Behaviour
 6880 Sociology Graduate Seminar
 6900 Master's Research Paper (6 credit hours)

8 Regulations Governing the Degree of Master of Arts and Education (Education and Francophone Literatures and Cultures)

Professor and Dean of Arts

L. Phillips

Associate Professor and Dean of Education

K. Anderson

Associate Professor and Associate Dean of Arts (Graduate and Research)

C. Dyck

Associate Professor and Associate Dean of Education

T. Seifert

The degree of Master of Arts and Education (Education and Francophone Literatures and Cultures) is jointly offered by the Faculty of Arts and the Faculty of Education, and is offered by full-time or part-time study.

These regulations should be read in conjunction with the **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland.

The Administrative Committee is responsible for the program. The Committee shall be comprised of the Associate Dean, Graduate Programs in the Faculty of Education (or delegate), the Head of the Department of French and Spanish (or delegate) and one appointed faculty member. The faculty member shall come from either the Faculty of Education or the Department of French and Spanish in alternating years. The Administrative Committee is responsible for admissions and advising students on course selection when appropriate.

8.1 Qualifications for Admission

To be considered for admission to the Master of Arts and Education (Education and Francophone Literatures and Cultures), an applicant shall normally hold a Bachelor of Education degree, with a concentration in French, from an institution recognized by Senate. Applicants should have a minimum 'B' standing or an average of 70% in the last 30 courses attempted and two years of experience teaching French. An appropriate level of proficiency in French is required, and the applicant's level of competence will be evaluated by the Administrative Committee.

8.2 Program of Study

1. Candidates for the Master of Arts and Education (Education and Francophone Literatures and Cultures) may choose one of two program options:
 - Option I. Project Route
 - Option II. Comprehensive Course Route
2. All candidates shall be required to complete:
 - French 6800 Littératures francophones: Théorie et pratique/Francophone literatures: Theory and practice
 - French 6810 Cultures francophones: Théorie et pratique/Francophone Cultures: Theory and practice
 - Education 6100 Research Designs and Methods in Education
 - Six credit hours from Memorial University of Newfoundland, Department of French and Spanish graduate course offerings as deemed appropriate by the Administrative Committee.
 - Nine credit hours selected from:
 - Education 6668 Current Issues in Second Language Education
 - Education 6669 Graduate Seminar in Second Language Teaching and Learning
 - Education 6673 Second Language Teaching, Learning and Curriculum
 - Three credit hours from other Memorial University of Newfoundland, Faculty of Education graduate course offerings as deemed appropriate by the Administrative Committee.
3. Students choosing Option I must also complete:
 - Education 6392 Project in Curriculum, Teaching and Learning Studies
4. Students choosing Option II must also complete:
 - Three credit hours from Memorial University of Newfoundland, Department of French and Spanish graduate course offerings as deemed appropriate for each candidate's program by the Administrative Committee.
 - Education 6390 Research and Development Seminar in Curriculum, Teaching and Learning Studies

8.3 Evaluation

1. In order to continue as a candidate for the degree of Master of Arts and Education (Education and Francophone Literatures and Cultures), a candidate shall obtain an A or B grade in each required course. A candidate who receives a grade of C in any required course must repeat that course and obtain a minimum grade of B. In the case of an elective course, a suitable replacement course acceptable to the Administrative Committee may be substituted for the failed course. Only one such repetition/replacement shall be permitted on the candidate's graduate program. Should a grade of less than B be obtained in the repeated/replacement course, or any other program course, the candidate shall be required to withdraw from the program.
2. When the Administrative Committee has determined, through consultation with the candidate, graduate course instructors, and the project supervisor, if applicable, that the candidate's work has fallen below satisfactory level, they may request the Dean of the Faculty of Education and the Head of the Department of French and Spanish recommend to the Dean of Graduate Studies that the

candidate's program be terminated.

8.4 Courses

French 6800 Littératures francophones: Théorie et pratique/Francophone literatures: Theory and practice

French 6810 Cultures francophones: Théorie et pratique/Francophone Cultures: Theory and practice

Education 6100 Research Designs and Methods in Education

Education 6390 Research and Development Seminar in Curriculum, Teaching and Learning Studies

Education 6392 Project in Curriculum, Teaching and Learning Studies (6 credit hours)

Education 6668 Current Issues in Second Language Education

Education 6669 Graduate Seminar in Second Language Teaching and Learning

Education 6673 Second Language Teaching, Learning and Curriculum (credit may not be obtained for both Education 6673 and the former 6665 or 6667)

Other courses offered for the Master of Education program and the Master of Arts in French Studies program as deemed appropriate by the Administrative Committee

Règlements de la Maîtrise ès Arts et Éducation (Enseignement des littératures et cultures francophones)

Professeure et Doyenne des Arts

L. Phillips

Professeure Agrégée et Doyen d'Éducation

K. Anderson

Professeure Agrégée et Doyenne Adjointe aux Etudes Supérieures et à la Recherche

C. Dyck

Professeur Agrégé et Doyen adjoint d'Éducation

T. Seifert

La Maîtrise ès Arts et Éducation (Enseignement des littératures et cultures francophones) est offerte conjointement par la Faculté des Arts et la Faculté d'Éducation et cautionne des études à temps partiel ou à temps plein.

Il est recommandé de lire ces règlements en conjonction avec les Règlements généraux de l'École des Études supérieures.

Le Comité administratif est responsable du programme. Le Comité sera composé du Doyen adjoint aux programmes supérieurs de la Faculté d'Éducation (ou son représentant), le Directeur du Département d'études françaises et hispaniques (ou son représentant), et un autre membre. Ce dernier viendra alternativement (une année sur deux) d'une des deux unités. Le Comité administratif décidera de l'admission et conseillera à l'occasion les étudiants sur leur choix de cours.

Admission

Pour être admis au programme de Maîtrise ès Arts et Éducation (Enseignement des littératures et cultures francophones), il faut normalement détenir un Baccalauréat en Éducation, avec concentration en français, provenant d'une institution reconnue par le Sénat. Il faut une note moyenne minimale de 'B' ou une moyenne de 70% dans les trente derniers cours et deux ans d'expérience dans l'enseignement du français. Un niveau adéquat de français est nécessaire et la compétence des candidats (le masculin est utilisé à titre épïcène) sera évaluée par le comité d'admission.

Programme d'études

- Les candidats à la Maîtrise ès Arts et Éducation (Enseignement des littératures et cultures francophones) choisira l'une ou l'autre des deux options suivantes:
 - 1^{re} option Programme menant au projet terminal
 - 2^e option Programme entièrement composé de cours
- Tous les candidats devront compléter:
 - French 6800 Littératures francophones: Théorie et pratique
 - French 6810 Cultures francophones: Théorie et pratique
 - Education 6100 Research Designs and Methods in Education
 - Six heures crédits de cours de deuxième cycle du Département d'études françaises et hispaniques jugés appropriés par le Comité administratif.
 - Neuf heures crédits parmi:
 - Education 6667 Second Language Teaching, Learning and Curriculum
 - Education 6668 Current Issues in Second Language Education
 - Education 6669 Graduate Seminar in Second Language Education
 - Trois heures crédits de cours de la Faculté d'Éducation jugés appropriés par le Comité administratif.
- L'étudiant ayant choisi la 1^{re} option devra compléter:
 - Education 6392: Project in Curriculum, Teaching and Learning Studies
- L'étudiant ayant choisi la 2^e option devra compléter:
 - Trois heures crédits de cours de deuxième cycle du Département d'études françaises et hispaniques jugés appropriés pour le programme de l'étudiant.
 - Education 6390 Research and Development in Teaching and Learning Studies

Évaluation

- Afin de continuer son inscription au programme de Maîtrise ès Arts et Éducation (Enseignement des littératures et cultures francophones), le candidat doit obtenir un note de A ou B dans chaque cours obligatoire. Le candidat qui reçoit une note de C dans un cours obligatoire doit répéter ce cours et obtenir au moins B. Dans le cas d'un cours facultatif, un cours jugé approprié par le Comité administratif peut être substitué à un cours qui n'a pas été réussi. Une telle répétition ou un tel remplacement ne sera permis qu'une seule fois dans le programme de l'étudiant. Si une note moindre que B est obtenue dans un cours répété ou dans un cours de remplacement, le candidat devra se retirer du programme.
- Lorsque le Comité administratif aura établi, après avoir consulté le candidat, ses enseignants et son directeur de projet, le cas échéant, que le travail du candidat n'atteint toujours pas un niveau satisfaisant, il pourra demander au Doyen de la Faculté des Arts et au Doyen de Faculté d'Éducation qu'ils recommandent la disqualification du candidat au Doyen des Études supérieures.

Cours

French 6800 Littératures francophones: Théorie et pratique

French 6810 Cultures francophones: Théorie et pratique

Education 6100 Research Designs and Methods in Education

Education 6390 Research and Development in Teaching and Learning Studies

Education 6392 Project in Teaching and Learning Studies

Education 6668 Current Issues in Second Language Education

Education 6669 Graduate Seminar in Second Language Education

Education 6673 Second Language Teaching, Learning and Curriculum (les étudiants ne peuvent recevoir de crédit et pour Education 6673 et pour Education 6665 ou 6667)

Autres cours de cycle supérieur offerts par la Faculté d'Éducation et le Département d'études françaises et hispaniques jugés appropriés par le Comité administrative.

9 Regulations Governing the Degree of Master of Business Administration

Professor and Dean

W. Zerbe

Assistant Professor and Director of Graduate Programs (Business)

P.A. Coady

The Degree of Master of Business Administration (M.B.A.) is offered by full-time or part-time study. These regulations must be read in conjunction with the **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland.

9.1 Qualifications for Admission

- Admission is limited and competitive. To be considered for admission to the Master of Business Administration program, an applicant shall normally hold at least a Bachelor's Degree, with a minimum 'B' standing, from an institution recognized by Senate. Qualified applicants with relevant employment experience will normally receive preference during the evaluation of applications. Applicants must achieve a satisfactory total score on the Graduate Management Admission Test (GMAT), as well as an appropriate balance of verbal and quantitative GMAT score components. Specific information regarding test centres, dates, registration procedure and deadlines can be obtained by contacting the Graduate Management Admission Council at www.mba.com. Qualified applicants with relevant employment experience will normally receive preference during the evaluation of applications.
- In exceptional cases, applicants who have not completed an undergraduate degree, but who meet all other requirements, may be considered for admission. Preference will be given to those who present a high GMAT score, have a minimum of 10 years of full-time managerial and executive experience, and have completed several years of university studies. The Faculty may also take into account relevant professional credentials. Applicants who do not meet normal admission requirements may be required to complete, with a high level of achievement, certain undergraduate courses before being considered for admission.
- When circumstances warrant, and only on the strong recommendation of the Faculty of Business Administration, consideration may be given to candidates who do not meet some of the above requirements.
- Applicants who did not complete a four-year baccalaureate degree at a recognized university where English is the primary language of instruction must normally complete either the:
 - Test of English as a Foreign Language (TOEFL) and achieve a paper-based score of 580 (or higher), computer-based score of 237 (or higher), or Internet based score of 92-93 (or higher); or
 - International English Language Testing System (IELTS) and achieve a score of 7 (or higher).

Information regarding the TOEFL is available from the Educational Testing Service at www.ets.org. IELTS information is available at www.ielts.org. It is noted that other equivalent tests acceptable to the School of Graduate Studies will also be considered.

9.2 Deadlines for Applications

Applications and all supporting documents must be received not later than May 1 from Canadian applicants wishing to enter full-time or part-time studies in the Fall semester. Full-time and international applicants are normally considered for entry in the Fall semester. International applicants must submit complete documentation by March 1. Part-time applicants planning to enter in the Winter (January) or Spring (May) semester must apply prior to October 15 and January 15 respectively. Individuals submitting applications later than the above dates are not assured of consideration for admission to the program in the semester desired; their applications will be processed only if time and resources permit.

9.3 Procedure for Admission

- Applications for admission to the M.B.A. program must be made on the appropriate form to the School of Graduate Studies.
- The following documents must be submitted in support of the official application form:
 - Letters of appraisal from two referees, at least one of whom has had close professional contact with the applicant within the last two years, and at least one of whom is capable of appraising the applicant's academic potential as a graduate student.
 - Two official transcripts from each university or other post-secondary institution previously attended, to be sent directly by its Registrar (or equivalent officer) to the School of Graduate Studies. If not recorded on the transcript, official evidence of completion of undergraduate degree must also be submitted.
 - The official GMAT score report, to be sent directly by the Graduate Management Admission Council. The code number for Memorial University of Newfoundland is LTT-6W-51.
 - Where applicable, an official TOEFL or IELTS score report (or another equivalent test acceptable to the School of Graduate Studies), to be forwarded directly by the educational testing service.
 - Application files are evaluated only when all required items have been received.
- Admission shall be by the Dean of the School of Graduate Studies on the recommendation of the Faculty of Business Administration. Upon notification from the Dean of the School of Graduate Studies of acceptance into the M.B.A. program, applicants must give written notice to the School of Graduate Studies of their intention to register. Such notice must be received by the Office of the Dean within 30 days of notification of acceptance, or three weeks prior to semester registration.

9.4 Direct Entry and Advanced Standing

1. Students who have an undergraduate degree in business with significantly high academic standing will be considered for direct entry into the second year of the M.B.A. Program. Their course load will be 8107, 8209, 8208; 3 credit hours chosen from 9005, 9020, 9306, 9325, or 9326 or another approved International course; plus 18-credit hours in electives from the schedule of M.B.A. electives listed in Table III. Direct entry will normally be considered if the undergraduate business degree with significantly high academic standing was awarded within seven years of the year for which admission to the M.B.A. program is being sought. The Faculty's Committee on Course Based Master's Programs reserves the right to require additional courses where there are noted deficiencies in a student's undergraduate record.
2. The Faculty's committee on Course Based Masters Programs may recommend advanced standing for students who do not qualify for direct entry at the time of admission to the M.B.A. program. Advanced standing for any 8000 level M.B.A. course would normally require that the student had achieved a grade of 75% or better at Memorial University of Newfoundland in undergraduate courses required for advanced standing. Courses will normally be considered for advanced standing if they are part of a degree that has been awarded within seven years of the year in which admission to the M.B.A. program is being sought. Advanced standing will not be granted for 8001, 8107, 8208, 8209 and 8203.
3. The following information must be submitted to the M.B.A. Program Office, Faculty of Business Administration, for evaluation by the Committee:
 - a. a detailed course outline for each course to be considered in the application for advanced standing;
 - b. a description of the method of evaluation used in each such course, the grades received, and the completion dates.
4. Students who enter the M.B.A. program with previous graduate degrees may be granted transfer credit for two non-business, non-specified elective courses by the Faculty's Committee on Course Based Masters Programs. The remaining electives will be chosen from courses offered by the Faculty of Business Administration. This does not apply to students with degrees such as the LLB and Medical Doctor degrees that are not master's degrees. Courses will normally be considered for advanced standing if they are part of a degree that has been awarded within seven years of the year for which admission is being sought.

9.5 Programs of Study

1. The programs of study include:
 - a. a 60 credit hour all-course program for candidates entering with an undergraduate degree in any area other than business. Thirty-six credit hours in program courses are required courses and are specified in **Table I**; the remaining 24 credit hours in program courses are electives chosen in accordance with the electives noted below. It is noted that of the 24 credit hours in electives candidates are required to complete 3 credit hours in the area of international business chosen from 9005, 9020, 9306, 9325, 9326 or another approved International course.
 - b. a 48 credit hour thesis option program for candidates entering with an undergraduate degree in any area other than business. Thirty-six credit hours in program courses are compulsory and are specified in **Table I**; the remaining 12 credit hours in program courses shall consist of 9103, 9 credit hours in courses agreed upon by the student and his or her Supervisor, plus a thesis. Additional courses, which may enhance the research area of the candidate, may be recommended by the Supervisor to the Graduate Research Programs Committee.
 - c. a 30 credit hour all-course program for direct entry candidates. Twelve credit hours of the program courses are required and are specified in **Table II**; the remaining 18 credit hours for candidates in the all-course program are electives chosen in accordance with the electives noted below.
 - d. a 18 credit hour thesis option program for direct entry candidates. Courses shall normally consist of the following 12 credit hours: 8107, 8208, 8209 and 9103, and 6 credit hours in courses agreed upon by the student and his or her Supervisor, plus a thesis. Additional courses, which may enhance the research area of the candidate, may be recommended by the Supervisor to the Graduate Research Programs Committee.
2. Electives in the all-course programs may be chosen from the following:
 - a. approved business electives as listed in **Table III**;
 - b. up to 6 credit hours in courses from other graduate programs within the School of Graduate Studies, as approved by the Dean of Graduate Studies on the recommendation of the Faculty of Business Administration;
 - c. a Research Project or projects, which may be assigned up to 9 credit hours, as approved by the Dean of Graduate Studies on the recommendation of the Faculty of Business Administration;
 - d. any other course or project deemed to be of satisfactory content and rigour as approved by the Dean of Graduate Studies on the recommendation of the Faculty of Business Administration.
3. The Faculty's Committee on Course Based Masters Programs reserves the right to restrict candidates from taking particular M.B.A. courses if it is deemed that those courses do not add sufficient value beyond courses that the candidate has completed at the undergraduate level.
4. Students are required to observe certain approved co- or prerequisites in scheduling their courses. These are indicated in **Table V**.
5. Students shall successfully complete the requirements of Business 8103 as part of the first 36 credit hours of their programs.
6. Changes to a student's prescribed program, including the specified course load, may have the prior approval of the Dean of Graduate Studies on the recommendation of the Faculty of Business Administration.

9.6 Evaluation

1. The Faculty Council of the Faculty of Business Administration constitutes the examining body for all examinations in Business courses. In addition, the standing of every student will be assessed by the Committee on Course Based Masters Programs in accordance with the requirements outlined in all the clauses below.
2. Credit towards the M.B.A. Degree will be granted only for those courses which have been approved as constituting part of the student's program of study and in which the candidate has obtained a mark of 65% or higher.
3. A candidate is required to withdraw from the M.B.A. program if a final grade of 'F' is obtained in any course.
4. To remain in the program, a candidate who obtains a final grade of 'C' or 'D' in any course must repeat that course when next offered, and obtain a minimum grade of 'B'. In the case of an elective course, a replacement course approved by the Committee on Course Based Masters Programs may be substituted for the course. Only two such repetitions/replacements shall be permitted in the candidate's graduate program. Should a grade of less than 'B' be obtained in a repeated or replacement course, the candidate shall be required to withdraw from the program.

9.7 Courses

The schedule of courses of the curriculum and elective courses are as follows:

Table I - Master of Business Administration Schedule of Required Courses

8103 Statistical Applications in Management 8104 Organizations: Behaviour and Structure 8106 Marketing 8107 Managing Ethics and Responsibility 8108 Economics for Business 8109 Accounting for Management	8204 Human Resource Management or B8210 Labour Relations 8205 Information Systems 8206 Managerial Finance 8207 Operations Management 8208 Strategic Management 8209 Leadership and Interpersonal Skills for Managers
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Table II - Master of Business Administration Schedule of Required Courses - Direct Entry

8107 Managing Ethics and Responsibility 8208 Strategic Management 8209 Leadership and Interpersonal Skills for Managers	one course in the area of international business (9005, 9020, 9306, 9325, 9326 or another approved international course)
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Table III - Master of Business Administration Schedule of M.B.A. Electives

8001-005 Special Topics 8202 Advanced Managerial Accounting 8203 Management Science 9001-9019 Special Topics (excluding 9013) 9013 Collective Agreement Administration and Arbitration 9020 International Human Resource Management 9021 Data Management 9022 Information Systems Analysis and Design 9023-9050 Special Topics (excluding 9030) 9030 International and Comparative Industrial Relations 9103 Research in Management 9301-03 Research Project 9306 International Strategic Management 9308 New Venture Creation 9309 Marketing Management 9310 Management Science Applications	9311 Seminar in Human Resource Management 9312 Financial Management 9314 Business and Taxation Law 9315 Advanced Financial Accounting 9316 Information Systems Management 9317 Current Topics in Management 9318 Marketing Communications Management 9320 Investments and Portfolio Management 9322 Strategic Management of Technology and Innovation 9323 Financial Forward, Futures, and Options Markets 9324 Gender, Work and Organizations 9325 Accessing International Markets 9326 International Finance 9328 Change Management 9329 Labour Law
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Two graduate electives from programs in other Faculties and Schools in the School of Graduate Studies.

Table IV - Master of Business Administration Course Restrictions

(Credit may be obtained for only one course from each of the pairs of courses listed in this table.)

Present Course	Replaces Course	Present Course	Replaces Course
8107	9201	9321	8210
8108	8101 or 8201	9324	9004
8109	8102 or 8202	9325	9005
8207	9319	9326	9010
8208	9101	9327	9007

Table V - Master of Business Administration Prerequisite/Co-requisite

Course	Prerequisite/Co-requisite*	Electives	Prerequisite/Co-requisite*
Required Courses		8203	Nil
8103	Nil	8204	8104 or admission to the MER program
8104	Nil	8210	Nil
		9013	Nine courses completed including 8210 or 8210 plus admission to the MER program
8106	Nil	9020	Nine courses completed including 8205 or admission to the MER program
8107	Nil	9021	Nine courses completed including 8205
8108		9022	Nine courses completed including 8205
		9030	Nine courses completed including 8210
8109	Nil	9103	Nine courses completed including 8103
8205	Nil	9301	Nine courses completed
8206	8103*, 8108*, 8109	9302	Nine courses completed plus 9301*
8207	8103, 8108*	9303	Nine courses completed plus 9301* and 9302*
8208	8103, 8104, 8106, 8108, 8109, 8205*, 8206*, 8207*	9306	Nine courses completed including 8103, 8104, 8106, 8108, 8109, 8205, 8206, 8207, 8208
8209	8104 or admission to the MER program	9308	Nine courses completed including 8106, 8109
		9309	Nine courses completed including 8106
		9311	Nine courses completed including 8104, 8204 or admission to the MER program
		9312	Nine courses completed including 8103, 8108, 8109, 8206
		9314	Nine courses completed including 8103, 8108, 8109, 8206 or admission to the MER program
		9316	Nine courses completed including 8205
		9317	Nine courses completed
		9318	Nine courses completed including 8106
		9320	Nine courses completed including 8103, 8108, 8109, 8206
		9322	Nine courses completed including 8103, 8104, 8106, 8108, 8109, 8205, 8206, 8207, 8208*
		9323	Nine courses completed including 8103, 8108, 8109, 8206, 9320
		9324	Nine courses completed including 8104 or admission to the MER program
		9325	Nine courses completed including 8106
		9326	Nine courses completed including 8103, 8108, 8109, 8206
		9328	Nine courses completed including 8104 or admission to the MER program
		9329	Nine courses completed including 8210 or 8210 plus admission to the MER program

Note: All 9000-level courses require the prior completion of nine courses, including any specific prerequisites or co-requisites unless otherwise specified.

10 Regulations Governing the Degree of Master of Education

Associate Professor and Dean

K. Anderson

Associate Professor and Associate Dean

T. Seifert

The Master of Education (M.Ed.) is offered in the following areas: Educational Leadership Studies, Curriculum, Teaching and Learning Studies, Counselling Psychology, Post-Secondary Studies and Information Technology.

In addition, a Master of Arts and Education (Education and Francophone Literatures and Cultures), jointly offered by the Faculty of Education and the Faculty of Arts, Department of French and Spanish, is available for candidates who wish to specialize in the study and teaching of French.

In the case of the following general program regulations and the specific program regulations, which govern all Master of Education Degree programs, Dean refers to the Dean of Graduate Studies, Dean of Education refers to the Office of the Dean, Faculty of Education, and Faculty refers to the Faculty of Education, through its various operating committees.

Students taking any of the Master of Education Degree programs are advised that a Bachelor of Education Degree is required for employment in the K - 12 system.

10.1 Qualifications for Admission

1. Admission to the Master of Education is limited and competitive. To be considered for admission to a graduate program in

Education, an applicant shall:

- a. have from a recognized institution, either (i) an undergraduate degree with at least second class standing, or (ii) an undergraduate degree and an average of at least 70% in the last 90 attempted undergraduate credit hours.
 - b. meet the requirements set forth in the specific program regulations.
2. Only in exceptional circumstances, and only on the recommendation of the Dean of Education, shall the Dean consider applicants who do not meet the requirements in 1.
 3. Please refer to **Specific Programs** regulations for additional admission requirements.

10.2 Program of Study

1. Candidates for the Master of Education (Educational Leadership Studies, Curriculum, Teaching and Learning Studies) shall be required to complete a minimum of:
 - a. 18 credit hours plus a thesis; or
 - b. 24 credit hours plus an internship report, a project report or a paper folio; or
 - c. 30 credit hours on the comprehensive-course route.

Candidates for the Master of Education (Post-Secondary Studies) shall be required to complete a minimum of:

- a. 18 credit hours plus a thesis; or
- b. 24 credit hours plus an internship; or
- c. 30 credit hours on the comprehensive-course route.

Candidates for the Master of Education (Counselling Psychology) shall be required to complete a minimum of:

- a. 30 credit hours (which include an internship) plus a thesis; or
- b. 36 credit hours (which include an internship) on the comprehensive-course route.

Candidates for the Master of Education (Information Technology) shall be required to complete a minimum of:

- a. 18 credit hours plus a thesis; or
- b. 30 credit hours on the comprehensive-course route.

2. Candidates may apply for transfer of course credits. All course transfers require the approval of the Dean, on the recommendation of the Dean of Education, and are subject to General Regulation, **Program Requirements, Transfer of Course Credits** of the School of Graduate Studies.
3.
 - a. A candidate with full-time status may register for a maximum of 12 credit hours in any regular semester and a maximum of 6 credit hours in intersession or summer session.
 - b. A candidate with part-time status may register for a maximum of 3 credit hours in any semester or session, excluding summer session, when 6 credit hours are permitted.
 - c. Candidates may register for additional courses in a semester or session with the permission of the Office of the Associate Dean of Graduate Programs in Education.
4. Before submission of the proposal for thesis, project, internship, or paper folio, a Supervisory Committee shall be recommended by the Dean of Education, in consultation with the candidate, and approved by the Dean. The Supervisory Committee shall consist of the Supervisor and at least one other member.

The function of the Supervisory Committee shall be to approve the proposal for the thesis, project, internship, or paper folio, and to exercise supervision in the conduct of the study on behalf of the Faculty, subject to the final approval of the Dean.

10.3 Period of Study

The period of the study for a graduate program shall not normally exceed six years beyond first registration. Completion of some program components may require full-time study on the University campus.

10.4 Evaluation

1. In order to continue as a candidate for the Master of Education Degree, a candidate who receives a final grade of 'C' in any program course must repeat that course and obtain a minimum grade of 'B'. In the case of an elective course a suitable replacement course, acceptable to the Faculty, may be substituted for the failed course. Only one such repetition/replacement shall be permitted on the candidate's graduate program. Should a grade of less than 'B' be obtained in the repeated course, replacement course, or any other program course, the candidate shall be required to withdraw from the program.
2. When the Faculty has determined, through consultation with the candidate, the instructors of graduate courses, and the program advisor or thesis Supervisor that the candidate's work has fallen below satisfactory level, it may request that the Dean of Education recommend to the Dean that the candidate's program be terminated.

10.5 Thesis

See School of Graduate Studies General Regulation, **Theses and Reports**.

10.6 Program Regulations

Every candidate in graduate studies shall comply with the School of Graduate Studies **General Regulations**, the Degree Regulations **Program of Study**, and the specific program regulations as outlined in **Specific Programs**.

10.7 Appeals and Waivers Procedures

Candidates are advised that appeals and waivers of any regulations governing the Degree of Master of Education are governed by School of Graduate Studies General Regulations **Provision For Waiver of Regulations** and **Appeal Procedures**.

10.8 Specific Programs

10.8.1 Educational Leadership Studies

Educational Leadership Studies is designed to prepare candidates for leadership in Education.

1. Admission Requirements

In addition to meeting the requirements in the School of Graduate Studies **General Regulations**,

- a. students must have completed a range and number of courses in Education deemed appropriate by the Faculty and Dean of Education.
- b. a minimum of two years of teaching/leadership experience is recommended.

2. Program Requirements

- a. all students in the Master of Education Program (Educational Leadership Studies) must complete:
 - 6100 Research Designs and Methods in Education
 - 6204 Educational Administration: Theory and Practice
 - 6205 Educational Policy: Theory and Practice and one of the following:
 - 6 credit hours (thesis route) within closed electives as listed in e. below
 - 9 credit hours (internship, paper folio, project, comprehensive course route) within closed electives as listed in e. below
- b. students on the thesis route must complete at least one of the research courses listed below (6100 is prerequisite):
 - 6466 Qualitative Research Methods
 - 6467 Quantitative Research Methods
 - 6468 Critical Approaches to Educational Research
 - 6469 Theoretical and Methodological Foundations of Action Research
- c. students on the comprehensive-course route must complete 6290 Research and Development Seminar in Educational Leadership Studies. Normally students would be permitted to register for this course only after all other course requirements have been met, or during the student's last semester of studies.
- d. to meet total credit hour requirements students may choose electives from any university graduate offering provided that those chosen are appropriate to the student's program:
 - students on the thesis route must complete a total of at least 18 credit hours
 - students on the internship, paper folio, or project route must complete a total of at least 24 credit hours and the appropriate course option 6291 Internship in Educational Leadership Studies (6 credit hours), 6292 Project in Educational Leadership Studies (6 credit hours), or 6293 Paper Folio in Educational Leadership Studies (6 credit hours)
 - students on the comprehensive-course route must complete a total of at least 30 credit hours
- e. students choosing the Mathematics Education specialization within Curriculum, Teaching and Learning Studies must complete 6630 Critical Issues in Mathematics Education prior to completing other Mathematics Education specialty courses.
- f. Closed electives are those listed below:
 - 6202 Social Context of Educational Leadership
 - 6203 Leadership: Theory and Practice
 - 6321 Supervisory Processes in Education
 - 6330 Educational Finance
 - 6335 Legal Foundations of Educational Administration
 - 6410 Seminar on Philosophical Issues in Educational Policy and Leadership
 - 6420 Ethical Issues and Perspectives in Educational Practice and Policy
 - 6425 Comparative Perspectives in Public Education, Reform, and Leadership
 - 6426 Computer Applications in Educational Administration
 - 6427 School Community Partnerships
 - 6440 Family-School Relations: Leadership and Policy Implications
 - 6465 School Violence: Leadership and Policy Implications
 - 6664 Seminar in School Improvement
 - 6710 Issues in Development and Implementation of Special Education Policy and Practices

Courses must be appropriate to the program and chosen in consultation with the advisor.

10.8.2 Curriculum, Teaching and Learning Studies

The Master of Education in Curriculum, Teaching and Learning Studies provides opportunities for students to investigate pertinent issues in these interrelated areas from a variety of perspectives: philosophical, historical, social, cultural, cognitive, and technological. The conceptual bases of curriculum, teaching, and learning are explored and analysed along with related examples of historical and current policies and practices. The program encourages the development of broad-based insights into issues related to these areas through an emphasis on critical inquiry and reflective practice. It supports students in the development and enhancement of research capabilities and professional expertise and practice.

Students may choose between two program options in Curriculum, Teaching and Learning Studies:

Option One

Students may choose to specialize in one of a number of areas of study: Computers in Education, Language and Literacy Studies, Mathematics Education, Music Education, Science Education, Second Language Education, Social Justice Education, Social Studies Education, Special Education and Teacher-Librarianship.

Option Two

In consultation with a faculty advisor, students may choose to design a program speciality which addresses their research interests. Specialty foci within Curriculum, Teaching, and Learning Studies are numerous and may include technology and web-based education, arts education, rural and multi-age education. Students may alternatively select appropriate courses from other Master of Education program offerings to develop a program to meet their learning goals. Students interested in this option are strongly encouraged to explore and to focus their research and study interests and to discuss these interests with a faculty advisor.

1. Admission Requirements

In addition to meeting the requirements in the School of Graduate Studies **General Regulations**,

- a. students must have completed a range and number of courses in Education deemed appropriate by the Faculty and Dean of Education.
- b. a minimum of two years of teaching or related experience is recommended.
- c. for a specialization in special education, a completed Bachelor of Special Education Degree or equivalent is required and enrolment will be limited to applicants articulating a research focus for which appropriate thesis supervision is available.

2. Program Requirements

- a. all students in the Master of Education Program (Curriculum, Teaching and Learning Studies) shall be required to complete:
 - 6100 Research Designs and Methods in Education
 - 6300 Teaching and Learning
 - 6602 Curriculum Studies
- b. students on the thesis route must complete at least one of the research courses listed below (6100 is prerequisite):
 - 6466 Qualitative Research Methods
 - 6467 Quantitative Research Methods
 - 6468 Critical Approaches to Educational Research
 - 6469 Theoretical and Methodological Foundations of Action Research
 - 6909 Narrative Approaches to Teaching, Learning and Research
 - and at least 2 courses from any university graduate offering provided that those chosen are appropriate to the student's program
- c. students choosing Option One on the internship, paper folio, project route, and comprehensive-course route must complete at least 2 courses within one particular specialty area from the list in **Core speciality courses in the study of curriculum, teaching and learning areas** below.
- d. students choosing Option Two must choose courses that have been designated through consultation with faculty advisor during the first semester of studies in this program.
- e. students choosing the Mathematics Education specialization within Curriculum, Teaching and Learning Studies must complete 6630 Critical Issues in Mathematics Education prior to completing other Mathematics Education specialty courses.
- f. students choosing the Special Education specialization within Curriculum, Teaching and Learning Studies must complete a thesis and at least two of the required Special Education specialty courses.
- g. students on the comprehensive-course route must complete one of the following courses: E6390 Research and Development Seminar in Curriculum, Teaching and Learning Studies or E6394 Biographical Explorations of Teaching and Learning or E6913 Practitioner Inquiry/Participatory Action Research. Normally students would be permitted to register for one of these courses only after all other course requirements have been met, or during the student's last semester of studies.
- h. to meet total credit hour requirements students may choose electives from any university graduate offering provided that those chosen are appropriate to the student's program:
 - students on the thesis route must complete a total of at least 18 credit hours
 - students on the internship, paper folio, or project route must complete a total of at least 24 credit hours and the appropriate course option 6391 Internship in Curriculum, Teaching and Learning Studies (6 credit hours), 6392 Project in Curriculum, Teaching and Learning Studies (6 credit hours), or 6393 Paper Folio in Curriculum, Teaching and Learning Studies (6 credit hours)
 - students on the comprehensive-course route must complete a total of at least 30 credit hours

i. Core speciality courses in the study of curriculum, teaching and learning areas:

Computers in Education

- 6610 Research on Computers in the Curriculum
- 6620 Issues and Trends in Educational Computing

Language and Literacy Studies

- 6106 Popular Culture and Literacy Education
- 6108 Literacy and Language Education: Sociocultural Perspectives
- 6641 Writing in the Primary, Elementary and Secondary Schools
- 6642 Developmental Reading (K-8)
- 6643 Contemporary Issues in Intermediate and Secondary English
- 6645 Literature for Children and Adolescents
- 6647 Diagnosis and Remediation of Reading and Writing Difficulties
- 6649 Exploring Multiple Literacies
- 6693 Literacy for the Young Child in Home and School

Mathematics Education

- 6630 Critical Issues in Mathematics Education
- 6634 Teaching and Learning to Solve Mathematics Problems (prerequisite E6630)
- 6639 Technology and the Teaching and Learning of Mathematics (prerequisite E6630)

Music Education

- 6502 Contexts of Music Education
- 6503 Teaching Music from the Podium
- 6504 Musicianship, Pedagogy, and Learning

Science Education

- 6653 Contemporary Issues in Science Education I
- 6655 The Nature of Science and Science Education
- 6658 Teaching and Learning Scientific Concepts, Laws, and Theories

Second Language Education

- 6668 Current Issues in Second Language Education
- 6669 Graduate Seminar in Second Language Teaching and Learning

6673 Second Language Teaching, Learning and Curriculum
6674 Research in Second Language

Social Justice Education

6105 Social and Cultural Difference and Education
6106 Popular Culture and Literacy Education
6108 Literacy and Language Education: Sociocultural Perspectives
6440 Family School Relations: Leadership and Policy Implications
6465 School Violence: Leadership and Policy Implications
6468 Critical Approaches to Educational Research
6909 Narrative Approaches to Teaching, Learning and Research
6913 Practitioner Inquiry/Participatory Action Research (prereq. 6469)

Social Studies Education

6670 Teaching and Learning Social Studies
6671 Research in Social Studies Education
6672 Issues and Trends in Social Studies

Special Education

6710 Issues in Development and Implementation of Special Education Policy and Practices
6712 The Nature and Assessment of Behaviour Disorders in Children and Adolescents
6714 Principles and Practices in Exceptionality
6755 Nature and Assessment of Learning Disabilities

Teacher-Librarianship

6662 Seminar in Teacher-Librarianship
6664 Seminar on School Improvement

Additional courses in the speciality areas are available.

10.8.3 Counselling Psychology

The mission of the program in Counselling Psychology is to prepare highly knowledgeable, skilled, dedicated, and ethical professional practitioners, who will endeavour to enhance human potential throughout the life span and who can effectively practice within a variety of settings.

The Counselling Psychology faculty promotes counselling as an effective, viable means of assisting individuals throughout the life span. The counselling psychologist, regardless of his or her theoretical stance or work setting, functions as a change agent who is sensitive to and knowledgeable about the range of human development reflected in individual differences and cultural and linguistic diversity. Effective and positive change is brought about by assisting clients to: examine and modify their behaviour for more effective living; cope with, adjust to, or otherwise negotiate the environments affecting their psychosocial well-being; and effect change in the larger society.

The practice of Counselling Psychology is based on theory and research, an understanding of ethical practices, and a set of professional and interpersonal skills. It is essential that graduate students study a variety of conceptual frameworks and research findings as preparation for collaborative work with other helping professionals, paraprofessionals, and a variety of self-help groups.

The Counselling Psychology faculty, while representing a range of views, agree that the uniqueness of the individual and his or her personal strengths must be acknowledged and respected. To fully explore professional issues and personal values, a trusting and open atmosphere must be present.

Individuals from a wide variety of personal, social, and educational backgrounds are encouraged to apply to the Counselling Psychology program. The program provides a broad-based sequence of studies and supervised experiences that will prepare graduate students to be knowledgeable and skilled practitioners who can function in a variety of settings. By the time they have completed this program, students will have acquired knowledge and competencies in the following general areas: individual and group counselling theory and techniques, legal and ethical aspects of counselling, human development and learning, social, cultural, and linguistic diversity, career education and counselling, program development and implementation, measurement and appraisal, research and program evaluation, and application of current technology service delivery in rural areas.

1. Admission Requirements

In addition to meeting the requirements in the School of Graduate Studies **General Regulations**, students:

- a. must have completed Education 3210, Introduction to Counselling.
- b. should have completed at least one undergraduate course on each of the following topics: statistics (Education 2900), assessment (Education 3280, 3290, 3950, 3955 or 4950), introduction to career education (Education 3211), introduction to exceptionality (Education 3220 or 3230). (Or their equivalent)

Note: *Many of these courses are prerequisites to specific graduate courses and must be completed before taking those courses.*

- c. should normally have at least one year of teaching (or related work) experience.
- d. must submit a resume that contains a concise rationale for the application (500 words or less) and three letters of recommendation (preferably one from each of the following: previous university instructors, supervisors, or employers).
- e. should note admission is selective and controlled by an admission committee of faculty members involved in the program. An interview may be required if deemed necessary.
- f. should note the Graduate Record Examination may be required.

2. Program Requirements

- a. all students in the Master of Education (Counselling Psychology) program shall be required to complete:

6100 Research Designs and Methods in Education (Prerequisite: Education 2900)
6702 Counselling: Theory and Practice (Prerequisite: Education 3210)
6706 Career Education and Career Counselling (Prerequisite: Education 3211)
6708 Group Counselling: Theory and Practice (Prerequisite: Education 6702)
6700 Ethical and Legal Issues in Counselling
6720 Internship in Counselling Psychology (Prerequisite: Normally completion of all courses) (9 credit hours)

- b. Students on the thesis route must complete the core courses listed above (24 credit hours) as well as a minimum of 6 credit hours from the closed electives indicated below for a total of 30 credit hours.
- c. Students on the comprehensive-course route must complete the core courses listed above (24 credit hours) as well as a minimum of 6 credit hours from the closed electives and 6 credit hours from any university graduate offering provided that those chosen are appropriate to the student's program for a total of 36 credit hours.

- d. All students in the Counselling Psychology program must complete 6720. The Internship may be fulfilled full-time or part-time and must comprise 600 clock hours with 240 hours of direct service with clients. It cannot be completed as part of your regular employment. It is strongly recommended that students take no other course during the full-time internship.
- e. Closed electives are those listed below:
 - 6703 Personal and Professional Development Group
 - 6705 Nature and Development of School Counselling Services
 - 6707 Assessment for Counsellors
 - 6709 Assessment of Intelligence and Learning Skills (Prerequisite: 3600 or its graduate equivalent 6707. Normally, students in Counselling Psychology will not enroll in this course until the latter part of their program). Candidates intending to pursue a career in the K-12 school system in Newfoundland and Labrador are urged to take this course and the prerequisite.
 - 6710 Issues in Development and Implementation of Special Education Policy and Practices
 - 6712 The Nature and Assessment of Behaviour Disorders in Children and Adolescents
 - 6713 Educational Applications of Contemporary Cognitive Psychology
 - 6714 Principles and Practices in Exceptionality
 - 6716 Working with Families and Parents
 - 6717 Counselling Adolescents
 - 6718 Elementary School Counselling
 - 6719 Cultural Issues in Counselling
 - 6802 Adult Learning and Development

Notes: 1. Student membership in the Canadian Counselling Association (CCA) or other appropriate professional organizations is strongly recommended for all students in the program.

2. Students who plan to work in the school system should be aware of the Department of Education regulations to be eligible to work as a school counsellor.

3. Students who plan to become registered psychologists in Newfoundland and Labrador should review the requirements of the Newfoundland Board of Examiners in Psychology.

10.8.4 Post-Secondary Studies

The graduate programs in Post-Secondary Studies are designed to prepare candidates to function in a variety of roles in informal and formal post-secondary learning environments (including academic, technical, professional, adult education, health professional education, and student services/development). These programs facilitate a study of the post-secondary educational systems through an examination of their foundations, directions, organization and administration; and through curriculum and instructional development options for occupational preparation and adult education.

1. Admission Requirements

In addition to meeting the requirements in the School of Graduate Studies **General Regulations**,

- a. Candidates must have completed an undergraduate course in statistics (Education 2900), and post-secondary education (Education 2720), or have accumulated the equivalent experiences in each of the above two areas as approved by the Head of the Academic Unit;
- b. two years of successful experience in working with adult learners is recommended;
- c. and for the Graduate Diploma in Post-Secondary Studies (Health Professional Education) program, candidates must have appropriate academic qualifications and work experience in a health-related field.

2. Program Requirements (M.Ed.)

- a. Candidates for the Master of Education (Post-Secondary Studies) are required to complete courses that form the program core.
 - i. 6100 Research Designs and Methods in Education
 - ii. 6801 Foundations of Post-Secondary Programs
 - iii. 6802 Adult Learning and Development
 - iv. 6803 Research in Post-Secondary Education
 - v. and not fewer than 6 credit hours from closed electives in g. below.
- b. Students holding the Graduate Diploma in Post-Secondary Studies (Health Professional Education) and accepted in the Master of Education (Post-Secondary Studies) will complete up to 12 fewer credit hours dependent upon the chosen program route and the completion date of the Graduate Diploma.
- c. Students on the comprehensive-course route must complete 6890 Research and Development Seminar in Post-Secondary Studies.
- d. Students on the internship route must complete 6891 Internship in Post-Secondary Studies (6 credit hours).
- e. Normally, students will be permitted to register for 6890 and 6891 only after all other course requirements have been met.
- f. To meet total credit hour requirements students may choose courses from other graduate offerings within the Faculty, the University, or other universities provided the courses chosen are appropriate to the student's program. Students on the thesis route must complete a total of at least 18 credit hours; and those on the internship or comprehensive-course route a total of at least 30 credit hours.
- g. Closed electives are those listed below:
 - 6804 Leadership and Human Resource Development in Post-Secondary Education
 - 6805 Advanced Human Resource Communications
 - 6806 Interprofessional Education in the Health Professions
 - 6807 Economics and Finance of Post-Secondary Education
 - 6822 Foundations of Instructional Design in Post-Secondary Education
 - 6823 Principles of Program Design and Development
 - 6832 Issues and Trends in the Administration of Post-Secondary Education
 - 6841 Student Development Theory, Services and Programs in Post-Secondary Education
 - 6940 Administration of Student Services in Post-Secondary Education

3. Program Requirements for Graduate Diploma in Post-Secondary Studies (Health Professional Education)

The Graduate Diploma in post-secondary studies, specialization in health professional education, which was created in collaboration with the Centre for Collaborative Health Professional Education, is designed to enhance health professionals' abilities as educators and leaders in educational program design, development, evaluation and administration. The Graduate Diploma is intended for educators and educational leaders of formal and informal post-secondary health professional education programs.

Participants will engage in an in-depth study of the structure and organization of the post-secondary education system, theories and philosophies of adult learning and development; and through elective courses pursue studies of program development models, instructional design frameworks, evaluation and assessment techniques, teaching methods, and research design principles in post-secondary teaching and learning. Opportunities will exist for the guided study of these topics as they relate to health professional education.

- a. Candidates for the Graduate Diploma in Post-Secondary Studies (Health Professional Education) are required to complete courses that form the program core.
 - i. 6801 Foundations of Post-Secondary Programs
 - ii. 6802 Adult Learning and Development
 - iii. 6806 Interprofessional Education in the Health Professions
 - iv. and not fewer than 3 credit hours from closed electives in 2. g. above or from:
 - 6100 Research Designs and Methods in Education
 - 6803 Research in Post-Secondary Education
- b. Students are encouraged to relate their assignments in these courses to health professional education.
- c. Students enrolled in the Graduate Diploma program may request transfer to the Master of Education (Post-Secondary Studies). Courses for both the Graduate Diploma and the Degree must be appropriate to the program and chosen in consultation with the student's advisor.

10.8.5 Information Technology

The graduate program in Information Technology is offered in partnership with Cape Breton University (CBU). It is designed to facilitate the educational use of information technology in a wide variety of settings. The program will be of interest to educators at all levels including K-12 teachers, school administrators, those in the post-secondary system, business and industry, as well as those in most other adult learning situations.

Information technology in this Master of Education program encompasses computer, communications, networking and multi-media applications. The overall intent of the program is to:

- provide educators with skill sets and pedagogical expertise that will enable them to address computer and related information technology in a teaching/learning situation;
- develop potential information technology leaders for the educational system;
- develop instructional designers, for a variety of educational settings, who are able to combine information technology with learning theory to enhance curriculum development and delivery;
- provide a basis for the continued professional development of educators in the area of information technology;
- develop an awareness of the applications of information technology in a wide variety of educational contexts; and
- develop research expertise and potential in the use and application of information technology for teaching and learning purposes.

Candidates for the program will have attained, prior to acceptance, some fundamental knowledge and skills with respect to information technology through pre-requisite experiences, and have attained a recognized undergraduate degree in an appropriate discipline with at least a second class standing (see specific regulations for details). The program components are designed to enable candidates to build on their prior experience through the development of pedagogical links and information technology applications. It is intended that the program be offered primarily as a part-time program through distance delivered courses, with other delivery formats to be considered/ utilised where feasible. Access to specific computer hardware, software, and the Internet is required and will be the responsibility of each candidate.

A steering committee comprised of three members from each of the Faculty of Education at Memorial University of Newfoundland and the Institute for Education at CBU is responsible to the Associate Dean of Graduate Programs and Research, Faculty of Education, for selected aspects of the program. The latter include assessing student applications, recommending approval of instructors who are not regular faculty members at either CBU or Memorial University of Newfoundland, and recommending course or program changes. This committee is to be co-chaired by the Associate Dean of Graduate Programs and Research, Faculty of Education, Memorial University of Newfoundland and the Director of the Institute for Education at CBU, or their designate(s).

CBU courses offered as part of this program are indicated by the prefix "CBU EDU" followed by the specific course number.

1. Admission Requirements

Admission to the program is competitive and selective. In addition to meeting the requirements in the School of Graduate Studies **General Regulations**, Faculty of Education, Memorial University of Newfoundland, candidates must have successfully completed:

- a. one of a diploma or certificate in information technology from an accredited institution; CBU EDU 530; Memorial University of Newfoundland E2751 and E3751; or equivalent as determined by the program steering committee.

Selection into the program is determined by an applicant's profile which would normally include such criteria as previous academic performance, related work experience, and relevant information technology experience. More detailed information may be found at www.mun.ca/educ/grad/infotech.php.

2. Program Requirements

- a. all candidates for the Master of Education (Information Technology) must complete E6100 Research Designs and Methods in Education.
- b. candidates on the thesis route must complete:
 - three credit hours from:
 - 6610 Research on Computers in the Curriculum
 - 6615 Educational Software Prototyping and Evaluation
 - 6620 Issues and Trends in Educational Computing
 - nine credit hours selected from the core elective CBU courses approved for this program:
 - CBU EDU 5101 Assessment of Software and Information Technology Applications for Education
 - CBU EDU 5103 Integration of Instructional Design and Information Technology
 - CBU EDU 5104 Applications of Learning Theory in Educational Multi-media Design
 - CBU EDU 5105 Designing Web-based Learning
 - CBU EDU 5106 Technology Planning for Educational Environments
 - CBU EDU 5107 Information Management for Educational Environments
 - three credit hours from: 6822, 6823, 6802, E6426, or from other Memorial University of Newfoundland, Faculty of Education

graduate course offerings as deemed appropriate for each candidate's program and approved by the program steering committee.

- c. candidates on the comprehensive-course route must complete:
 - i. six credit hours selected from E6610, E6615, E6620
 - ii. twelve credit hours selected from CBU EDU 5101, EDU 5103, EDU 5104, EDU 5105, EDU 5106, EDU 5107
 - iii. E6590 Research and Development Seminar in Information Technology in Education
 - iv. three credit hours from E6822, E6823, E6802, E6426, or from other Memorial University of Newfoundland, Faculty of Education graduate course offerings as deemed appropriate for each candidate's program and approved by the program steering committee
 - v. additional credit hours appropriate to a candidate's program, and approved by the program steering committee, to be chosen from graduate course offerings at Memorial University of Newfoundland, CBU, or any other university to complete the required 30 credit hours for the comprehensive-course route
- d. normally, candidates will be permitted to register for E6590 only after all other course requirements have been met.
- e. candidates who have successfully completed the CBU graduate level Certificate in Education (Technology) will be given advanced standing credit for the 9 CBU EDU course credit requirements for the thesis route or 12 CBU EDU course credit requirements for the comprehensive course-route on this program.
- f. candidates who have successfully completed the former CBU EDU 534 and/or EDU 543 with at least a CBU grade of B (70%) toward the CBU graduate level Certificate in Education (Technology) prior to September 2000, will receive up to 12 advanced standing credit hours appropriate to their Degree option (EDU 534 will be considered equivalent to EDU 5101 and EDU 5103, and EDU 543 equivalent to EDU 5104 and EDU 5105).
- g. thesis-route candidates will be subject to **Theses and Reports** of the School of Graduate Studies, Memorial University of Newfoundland, supervised by a faculty member at Memorial University of Newfoundland, and where feasible co-supervised by a CBU faculty member.

10.9 Courses

A selection of the following graduate courses shall be offered to meet the requirements of candidates, as far as the resources of the Faculty allow:

6100 Research Designs and Methods in Education
 6105 Social and Cultural Difference and Education
 6106 Popular Culture and Literacy Education
 6107 Arts Education: Creativity in the Classroom
 6108 Literacy and Language Education: Sociocultural Perspectives
 6202 Social Context of Educational Leadership
 6203 Leadership: Theory and Practice
 6204 Educational Administration: Theory and Practice
 6205 Educational Policy: Theory and Practice
 6290 Research and Development Seminar in Educational Leadership Studies
 6291 Internship in Educational Leadership Studies (6 credit hours)
 6292 Project in Educational Leadership Studies (6 credit hours)
 6293 Paper Folio in Educational Leadership Studies (6 credit hours)
 6300 Teaching and Learning
 6321 Supervisory Processes in Education
 6330 Educational Finance
 6335 Legal Foundations of Educational Administration
 6390 Research and Development Seminar in Curriculum, Teaching and Learning Studies
 6391 Internship in Curriculum, Teaching and Learning Studies (6 credit hours)
 6392 Project in Curriculum, Teaching and Learning Studies (6 credit hours)
 6393 Paper Folio in Curriculum, Teaching and Learning Studies (6 credit hours)
 6394 Biographical Explorations of Teaching and Learning
 6410 Seminar on Philosophical Issues in Educational Policy and Leadership
 6420 Ethical Issues and Perspectives in Educational Practice and Policy
 6425 Comparative Perspectives in Public Education, Reform, and Leadership
 6426 Computer Applications in Educational Administration
 6427 School Community Partnerships
 6440 Family-School Relations: Leadership and Policy Implications
 6465 School Violence: Leadership and Policy Implications
 6466 Qualitative Research Methods
 6467 Quantitative Research Methods
 6468 Critical Approaches to Educational Research
 6469 Theoretical and Methodological Foundations of Action Research
 6502 Contexts of Music Education
 6503 Teaching Music from the Podium
 6504 Musicianship, Pedagogy, and Learning
 6590 Research and Development Seminar in Information Technology in Education
 6600 Learning and Motivation
 6602 Curriculum Studies
 6603 Place, Ecology and Education
 6610 Research on Computers in the Curriculum (Prerequisite: 6620)
 6615 Educational Software Prototyping and Evaluation
 6620 Issues and Trends in Educational Computing
 6630 Critical Issues in Mathematics Education
 6632 Current Research in Teaching and Learning of Elementary School Mathematics (Prerequisite: 6630)
 6634 Teaching and Learning to Solve Mathematics Problems (Prerequisite: 6630)
 6635 Teaching and Learning Geometry
 6636 Teaching and Learning the Concept of Number and Operations
 6639 Technology and the Teaching and Learning of Mathematics (Prerequisite: 6630)
 6641 Writing in the Primary, Elementary and Secondary Schools

- 6642 Developmental Reading (K-8)
 6643 Contemporary Issues in Intermediate and Secondary English
 6644 Drama in Education
 6645 Literature for Children and Adolescents
 6646 Literature in the Secondary School
 6647 Diagnosis and Remediation of Reading and Writing Difficulties
 6649 Exploring Multiple Literacies
 6653 Contemporary Issues in Science Education I
 6655 The Nature of Science and Science Education
 6658 Teaching and Learning Scientific Concepts, Laws, and Theories
 6660 Information Technology
 6661 Applications of Media in Education
 6662 Research Seminar in Teacher-Librarianship
 6663 The Organization of Learning Resources
 6664 Seminar in School Improvement
 6668 Current Issues in Second Language Education
 6669 Graduate Seminar in Second Language Teaching and Learning
 6670 Teaching and Learning Social Studies
 6671 Research in Social Studies Education
 6672 Issues and Trends in Social Studies
 6673 Second Language Teaching, Learning and Curriculum (*credit may be obtained for only one of Education 6673, the former 6665 or 6667*)
 6674 Research in Second Language Writing Education
 6675 Current Issues in Rural Education
 6693 Literacy for the Young Child in Home and School
 6700 Ethical and Legal Issues in Counselling
 6701 Issues and Methodologies in Learning and Developmental Research
 6702 Counselling: Theory and Practice
 6703 Personal and Professional Development Group (non-credit)
 6705 Nature and Development of School Counselling Services
 6706 Career Education and Career Counselling
 6707 Assessment for Counsellors
 6708 Group Counselling: Theory and Practice
 6709 Assessment of Intelligence and Learning Skills
 6710 Issues in Development and Implementation of Special Education Policy and Practices
 6711 Behaviour Modification in the Educational Setting
 6712 The Nature and Assessment of Behaviour Disorders in Children and Adolescents
 6713 Educational Applications of Contemporary Cognitive Psychology
 6714 Principles and Practices in Exceptionality
 6715 The Theory and Practice of Peer Helping Programs
 6716 Working with Families and Parents
 6717 Counselling Adolescents
 6718 Elementary School Counselling
 6719 Cultural Issues in Counselling
 6720 Internship in Counselling Psychology (9 credit hours)
 6755 Nature and Assessment of Learning Disabilities
 6801 Foundations of Post-Secondary Programs
 6802 Adult Learning and Development
 6803 Research in Post-Secondary Education
 6804 Leadership and Human Resource Development in Post-Secondary Education
 6805 Advanced Human Resource Communications
 6806 Interprofessional Education in the Health Professions
 6807 Economics and Finance of Post-Secondary Education
 6822 Foundations of Instructional Design in Post-Secondary Education
 6823 Principles of Program Design and Development
 6831 Organization and Administration of Student Services for the Adult Learner
 6832 Issues and Trends in the Administration of Post-Secondary Education
 6841 Student Development Theory, Services and Programs in Post-Secondary Education
 6890 Research and Development Seminar in Post-Secondary Studies
 6891 Internship in Post-Secondary Studies (6 credit hours)
 6900-6910 Special Topics (excluding 6909)
 6909 Narrative Approaches to Teaching, Learning and Research
 6911 Multiage Education: An Introduction
 6912-6950 Special Topics
 6913 Practitioner Inquiry/Participatory Action Research (Prerequisite: 6469 Theoretical and Methodological Foundations of Action Research)
 6940 Administration of Student Services in Post-Secondary Education

11 Regulations Governing the Degree of Master of Employment Relations

Professor and Director
 T. Brown

The Master of Employment Relations (M.E.R.) is a multi-disciplinary program providing advanced level study of all aspects of the employment relationship.

The M.E.R. program is offered by full-time or part-time study and involves 36 credit hours of course work. Candidates registered on a full-time basis will normally complete the program in one academic year. The following regulations must be read in conjunction with the **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland.

11.1 Administration

1. The program shall be administered by a Director, who reports to the Dean of Graduate Studies. The Director shall be appointed by the Dean of Graduate Studies on the recommendation of the Deans of Arts and Business Administration. In making this recommendation, the Deans of Arts and Business Administration shall consult with the employment relations community both within and outside the University.
2. An Executive Committee consisting of the Director and Deans of Arts, Business Administration, and Graduate Studies will be established to review administrative, resource, and strategic planning issues related to the program. This committee shall be chaired by the Dean of Graduate Studies.
3. The Director shall consult with the Graduate Committee in Employment Relations (GCER) for the purposes of administering the academic elements of the program. The GCER shall normally consist of 11 members appointed by the Dean of Graduate Studies on the recommendation of the Director. The GCER will include the Director, who shall Chair the committee, approximately six faculty members from the Faculties of Arts and Business Administration who teach core courses, the Associate Deans or Directors of Graduate Studies from Arts and Business Administration, as well as one full-time and one part-time student representative.
4. An Advisory Board in Employment Relations (ABER) shall be established for the purposes of consulting with obtaining feedback from the employment relations community. The ABER will consist of a broad cross-section of members from the employment relations community both within and outside the University who shall be appointed by the Dean of Graduate Studies on the recommendation of the Director.

11.2 Qualifications for Admission

1. Admission is limited and competitive.
2. To be considered for admission to the M.E.R. program, an applicant shall have:
 - a. An undergraduate degree, with a minimum B standing, from an institution recognized by Senate; and
 - b. An undergraduate course in organizational behaviour, statistics, and microeconomics, from an institution recognized by Senate, with a minimum B standing in each course.
3. In exceptional cases, applicants who have not completed an undergraduate degree, but who meet all other requirements, may be considered for admission. Preference will be given to those who have a minimum of 10 years of full-time professional experience, including demonstrated success in employment relations, and who have successfully completed substantial university course work including several courses at an advanced undergraduate level from an institution recognized by Senate. Applicants without an undergraduate degree must have completed one or more undergraduate courses in organizational behaviour, statistics, and microeconomics, from an institution recognized by Senate, with a minimum B standing in each course. Any applicants who do not meet normal admission requirements, may also be required to successfully complete the GMAT or the GRE with an acceptable score and/or additional undergraduate courses before being considered for admission.
4. Applicants who did not complete a four-year baccalaureate degree at a recognized university where English is the primary language of instruction must normally complete either the:
 - a. Test of English as a Foreign Language (TOEFL) and achieve a paper-based score of 580 (or higher), computer-based score of 237 (or higher), or Internet based score of 92-93 (or higher); or
 - b. International English Language Testing System (IELTS) and achieve a score of 7 (or higher).
 - c. Information regarding the TOEFL is available from the Educational Testing Service at www.ets.org. IELTS information is available at www.ielts.org. It is noted that other equivalent tests acceptable to the School of Graduate Studies will also be considered.

11.3 Deadlines for Applications

1. Applicants seeking full-time enrolment will normally only be admitted to the program in the Fall (September) semester.
2. Applications must be postmarked no later than February 15 for applicants wishing to enter full-time or part-time studies in the Fall (September) semester.
3. Applications must be postmarked not later than August 15 for applicants wishing to enter part-time studies in the Winter (January) semester.
4. Individuals submitting applications later than the above dates are not assured of consideration for admission to the program in the semester desired; their applications will be processed only if time and resources permit.

11.4 Procedure for Admission

1. Applications for admission to the M.E.R. program must be made on the appropriate form and submitted to the School of Graduate Studies.
2. The following documents must be submitted in support of the official application form:
 - a. Letter of appraisal from two referees, one of whom is capable of appraising the applicant's academic potential as a graduate student, and of whom is capable of appraising the applicant's professional experience and/or actual or likely success in a career in employment relations.
 - b. Two copies of the M.E.R. Employment Experience Information Form.
 - c. Two official transcripts from each university or other post-secondary institution previously attended, to be sent directly by its Registrar (or equivalent officer) to the School of Graduate Studies. If not recorded on the transcript, official evidence of completion of undergraduate degree must also be submitted.
3. Application files are normally evaluated after the deadline dates for application noted above and only when all required documentation has been received.
4. Admission shall be by the Dean of Graduate Studies on the recommendation of the GCER. Upon notification from the Dean of the School of Graduate Studies of acceptance into the M.E.R. program, applicants must give written notice to the School of Graduate Studies of their intention to register.

11.5 Program of Study

1. The M.E.R. program consists of 36 credit hours of course work as specified in **Table I**. These include 30 credit hours of compulsory courses and 6 credit hours of elective courses. The compulsory courses are comprised of 18 credit hours of core courses specified

in **Table II** and 9 credit hours for a research seminar.

- The compulsory core courses introduce students to the three main areas of study in the program: labour-management relations; human resources management; and labour market and social policy analysis.
- Electives allow students to specialize in one or more of the three main areas of study. Electives must be chosen from the list of approved electives specified in **Table III**. Other courses may be approved and added to **Table III** from time to time by the GCER.
- Candidates are responsible for fulfilling all pre-requisites and may require special permission from the Department offering an elective to enrol in the course.
- The Research Seminar in Employment Relations provides students with both quantitative and qualitative research skills and requires the identification of a research problem, the development and execution of a methodology appropriate to addressing the problem, analysis of results, and completion of final report. The Research Seminar involves 3 credit hours of course work in each of the Fall, Winter and Spring semesters.
- The prerequisites for EMRE 6030 and EMRE 6040 are EMRE 6010 and EMRE 6020. In addition, students will normally complete six M.E.R. courses before registering for EMRE 6030 or EMRE 6040. There are no prerequisites for EMRE 6010 and EMRE 6020 but students are advised to take these courses late in their programs, just before taking EMRE 6030 or EMRE 6040. For the core courses, the prerequisite for BUS1 9329 is BUS1 8210. For the remaining core courses, there are no prerequisites. For the elective courses, Departmental regulations that specify particular courses as prerequisites will apply but the Departmental requirement to have completed a number of courses will not apply.
- A waiver of a core course may be granted by the Dean of Graduate Studies on the recommendation of the Director if the candidate can demonstrate that the material in the course has been substantially covered by other courses taken at this or another recognized university. In such cases, the course must be replaced by another course offered by Memorial University of Newfoundland in consultation with the candidate, and approved by the Director. The maximum number of core courses that can be waived is 3 and all replacement courses must be taken during the candidate's period of enrollment in the program.
- Each student's program of study must be approved by the Director. The Director reserves the right to restrict candidates from taking particular courses if it is deemed that those courses do not add sufficient value beyond courses that the candidate has completed at the undergraduate level.

11.6 Evaluation

- Candidates for the M.E.R. Degree must obtain a grade of B or better in all program courses.
- Candidates who receive a grade of less than B in a program course will be permitted to remain in the program, provided the course is repeated and passed with a grade of B or better. Alternatively, the candidate may, on the recommendation of the Director and with the approval of the Dean of Graduate Studies, substitute another graduate course. Only one course repetition or substitution will be permitted during the candidate's program after which the candidate shall be required to withdraw from the program.

11.7 Courses

The schedule of courses for the M.E.R. program is as follows:

Table I - Master of Employment Relations Schedule of Courses

<p>Term I (Fall) Three core courses from Table II One elective from Table III Employment Relations 6010 Research Seminar in Employment Relations I: Quantitative Methods</p> <p>Term III (Spring) Employment Relations 6040 Research Seminar in Employment Relations III: Applied Research Project</p>	<p>Term II (Winter) Three core courses from Table II One elective from Table III Employment Relations 6020 Research Seminar in Employment Relations II: Qualitative Methods</p>
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Table II - Master of Employment Relations Core Courses

<p>Business Business 8204 Human Resource Management Business 8210 Labour Relations Business 9329 Labour Law</p> <p>Employment Relations Employment Relations 6050 Interpersonal skills in Employment Relations</p>	<p>Arts Economics 6030 Labour Market Economics History 6075 Advanced Studies in Labour and Working-Class History One of: Sociology 6360 Sociology of Work, Sociology 6090 Special Area in Sociology, or Psychology 6402 Group Processes</p>
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Table III - Master of Employment Relations Elective Courses

<p>Labour-Management Relations Business 9013 Collective Agreement Administration and Arbitration Business 9030 International and Comparative Industrial Relations Employment Relations 6030: Independent Research Project</p> <p>Human Resource Management Business 9020 International Human Resource Management Business 9311 Seminar in Human Resource Management Business 9314 Business and Taxation Law Business 9317 Current Topics in Management Business 9324 Gender, Work and Organizations Business 9328 Change Management Education 6203 Leadership: Theory and Practice Education 6600 Learning and Motivation Education 6706 Career Education and Career Counselling Education 6802 Adult Learning and Development Education 6805 Advanced Human Resource Communications Employment Relations 6030 Independent Research Project Psychology 6401 Attitudes and Social Cognition Psychology 6402 Group Processes</p>	<p>Labour Market and Social Policy Analysis Business 8108 Economics for Business Economics 6000 Advanced Micro-economic Theory Economics 6001 Advanced Macro-economic Theory Education 6410 Philosophical Issues in Educational Policy and Leadership Employment Relations 6030: Independent Research Project Gender Studies 6000 Feminist Theory History 6000 Advanced Studies in Newfoundland History History 6010 Advanced Studies in Canadian History History 6070 Advanced Studies in Social History History 6090 Advanced Studies in Women's History History 6120 Advanced Studies in Economic and Business History Political Science 6700 Canadian Politics Political Science 6740 Public Administration Political Science 6790 Public Policy Sociology 6320 Gender and Society Sociology 6370 Feminist Theory and Methods</p>
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Note: Students may require special permission from the instructor and/or relevant graduate program administrator prior to enrolling in an elective course.

12 Regulations Governing the Degree of Master of Engineering

Professor and Dean

G. Naterer

Professor and Associate Dean (Graduate Studies)

L. Lye

The degree of Master of Engineering (M.Eng.) is a research-focused degree and may be obtained either through full-time or part-time studies. The M.Eng. degree can be obtained through programs in Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Ocean and Naval Architectural Engineering, and Oil and Gas Engineering.

12.1 Qualifications for Admission

To be considered for admission, an applicant shall meet the requirements set out in General Regulation, **Qualification for Admission**, or shall have qualifications and/or engineering experience that is acceptable to the Dean of Graduate Studies and to the Faculty of Engineering and Applied Science.

Admission to the M.Eng. program is limited and competitive. All applicants must meet the minimum qualifications set out in the above paragraph. Decisions on admission, however, will also take into account such things as the applicant's rank in class, referees' assessments, general performance throughout the applicant's undergraduate academic program and the availability of supervisors in the area of the applicant's interest.

Normally applicants will be considered in January for admission to the following September. In special cases applicants may also be considered in April and August. Applications should be made sufficiently far in advance to permit the University to obtain all relevant documents and review the application.

12.2 Program of Study and Research

- Students enrolled in the Master of Engineering program will work in one of the following areas: Civil Engineering; Computer Engineering; Electrical Engineering; Mechanical Engineering; Ocean and Naval Architectural Engineering; and Oil and Gas Engineering.
- A program shall normally consist of:
 - a thesis related to the area of study
 - 12 credit hours from graduate courses with at least 6 credit hours taken from the list of **Core Courses** below
 - Seminar course 9100
 - such other courses as may be required in an individual's program.
- The thesis is to contain the results of a systematic investigation which has been conducted by the candidate under the direction of the Supervisor.
- With the approval of the Dean of Graduate Studies and on the recommendation of the Faculty of Engineering and Applied Science, credit towards the course requirements may be considered for graduate courses previously taken by the student in accordance with the **General Regulations** for course credit transfers.

12.3 Supervision

- Each student shall be assigned to a Supervisor approved by the Dean of Graduate Studies on the recommendation of the Faculty of Engineering and Applied Science.
- The Supervisor shall propose a tentative program of study and topic of investigation which must be approved by the Dean of Graduate Studies acting on the recommendation of the Faculty of Engineering and Applied Science, before the acceptance of a student in the program.
- At the end of each semester, the Supervisor shall report on the student's progress to the Dean of Engineering and Applied Science for onward transmission to the Dean of Graduate Studies.
- A temporary or permanent change of Supervisor for a student already in a program shall be permitted only with the approval of the Dean of Graduate Studies and the Dean of Engineering and Applied Science.
- The Supervisor shall advise the student in the preparation and presentation of a seminar on the student's topic of investigation as described in **Thesis**, 2. below.

12.4 Industrial Internship Option

The Faculty encourages graduate students to undertake internships of work in industry. Internships in industry will permit students either (a) to focus on the practicalities of research projects which have been well defined before the student enters an internship, or (b) to develop and define a research project from problems experienced during the internship. Encouragement to undertake an internship will be given only where it is clear that one of these expectations can be met.

Students registered in the Master of Engineering Program may, with the permission of their Supervisor, the Dean of the Faculty of Engineering and Applied Science, and the Dean of Graduate Studies select the Industrial Internship Option. Students approved to pursue this option must satisfy the degree regulations for a Master of Engineering Program. In addition, students in the Industrial Internship Option:

- must take at least 9 credit hours of the courses required for their program on campus; the remaining required courses may be taken on or away from campus; those taken at other universities require pre-approval by the Dean of the School of Graduate Studies on the recommendation of the Faculty of Engineering and Applied Science
- shall normally spend 8 to 12 months of their program at an internship in industry
- shall normally spend at least two semesters on campus on a full-time basis as a graduate student at this university
- shall submit a concise progress report to their supervisors, no later than the end of each semester while on an internship

Successful completion of an internship will be indicated by a descriptive notation on the student transcript.

12.5 Fast-Track Option

Students registered in academic term 7 of a Memorial University of Newfoundland undergraduate engineering program are eligible to apply for admission to an M.Eng. fast-track option. The purpose of the option is to encourage students interested in pursuing graduate studies to begin their research-related activities while still registered as an undergraduate student. Normally, to be considered for admission to the option, students must have achieved at least a 70% average over academic terms 1 to 6 of their undergraduate engineering program. While enrolled in the option, a student may complete some of the M.Eng. Degree requirements and, hence, potentially be able to graduate earlier from the M.Eng. program.

Students shall enroll in the M.Eng. fast-track option concurrently with their undergraduate program during the Fall semester prior to academic term 8. Prior to entering the fast-track option, students must apply for and receive an exemption from work term 6. While enrolled in the option a student must be registered in full-time graduate studies during the Fall semester prior to academic term 8; during academic term 8, the student must take a leave of absence from the graduate program. A student enrolled in the fast-track option shall undertake research related to their field of study and shall normally complete at least 3 credit hours from the courses listed for their M.Eng. program in the Fall semester prior to academic term 8.

In the Fall semester following academic term 7, fast-track option students will pay only the graduate fees appropriate to graduate students following plan A of **Fees and Charges** (i.e., the 6 semester plan). In the succeeding Winter semester, while completing academic term 8 of their undergraduate program, fast-track option students will pay only the appropriate undergraduate fees.

Upon completion of their undergraduate program, students may register in the M.Eng. program on a full-time basis. All courses taken as part of their graduate program while enrolled in the M.Eng. fast-track option are credited towards the M.Eng. Degree course credit hour requirements. Courses taken as credit towards a student's undergraduate degree may not be credited towards a student's graduate degree; courses credited towards a student's graduate degree may not be credited towards a student's undergraduate degree. Students who do not complete their undergraduate degree within one year of entering the fast-track option will normally be required to withdraw from their M.Eng. program.

12.6 Course Evaluation

1. In order to continue in the program, a student shall obtain an A or B grade in each course taken for credit.
2. The student's achievement in the program must be to the satisfaction of the Dean of Graduate Studies and the Faculty of Engineering and Applied Science. When it has been determined on the basis of consultations with the student, the course instructors and the Supervisor, that a student's work has fallen below satisfactory level, he/she may be required to withdraw from the program.

12.7 Thesis

1. A student who expects to graduate must inform the Dean of Graduate Studies of this intention at least three months before the University Convocation at which the award of the degree is expected.
2. Before the thesis is submitted, the student shall present an open seminar on the topic of investigation to the Faculty of Engineering and Applied Science. Any serious deficiencies noticed at this stage should be carefully considered, in consultation with the Supervisor, for rectification.
3. Three copies of the thesis shall be submitted to the School of Graduate Studies through the Faculty of Engineering and Applied Science, in a form and format as specified in the Thesis Guide issued by the School of Graduate Studies and the Presentation of Theses Guide issued by the Faculty of Engineering and Applied Science. A submission which does not meet the specifications will be returned to the candidate.
4. Examiners shall be appointed by the Dean of Graduate Studies on the recommendation of the Faculty of Engineering and Applied Science soon after the student has expressed an intention to submit the thesis.

12.8 Evaluation of Theses

Theses evaluation shall be carried out in accordance with **Theses and Reports** of the **General Regulations** governing all students in the School of Graduate Studies.

12.9 Recommendation for Awarding Degree

When a student has completed all the requirements for the M.Eng. Degree, the Faculty of Engineering and Applied Science shall forward a recommendation to the Dean of Graduate Studies for the award of the Degree.

12.10 Master of Applied Science Programs

The Faculty of Engineering and Applied Science offers the following course-based programs:

12.10.1 Computer Engineering

In addition to the research-focused M.Eng. Degree in Computer Engineering, the Faculty of Engineering and Applied Science offers a course-based program in Computer Engineering leading to a Master of Applied Science Degree in Computer Engineering. For details of program requirements for the M.A.Sc. Degree in Computer Engineering, refer to the regulations governing the Degree of **Master of Applied Science**.

12.10.2 Environmental Systems Engineering and Management

The Faculty of Engineering and Applied Science offers a course-based program in Environmental Systems Engineering and Management. For the details of the program requirements for the M.A.Sc. Degree in Environmental Systems Engineering and Management refer to the regulations governing the Degree of **Master of Applied Science in Environmental Systems Engineering and Management**.

12.10.3 Oil and Gas Engineering

The Faculty of Engineering and Applied Science offers a course-based program in Oil and Gas Engineering. For the details of the program requirements for the M.A.Sc. degree in Oil and Gas Engineering refer to the regulations governing the Degree of **Master of Applied Science in Oil and Gas Engineering**.

12.11 Master of Engineering Management

12.11.1 Engineering Management

See regulations governing the Degree of **Master of Engineering Management**.

12.12 Courses

A selection of the following graduate courses will be offered to meet the requirements of the candidates, as far as the resources of the Faculty will allow.

Required Courses:

9100 Engineering Graduate Seminar (1 credit hour)

Core Courses:

9002 Ocean Engineering Structures
 9015 Ocean Engineering Hydrodynamics
 9110 Advanced Petroleum Production Engineering
 9113 Phase Behaviour of Petroleum Reservoir Fluids
 9114 Advanced Reservoir Engineering
 9115 Safety and Risk Engineering
 9118 Advanced Drilling Engineering
 9121 Advanced Safety, Risk and Reliability Modeling
 9211 Experimental Methods
 9411 Probabilistic Methods in Engineering
 9420 Engineering Analysis
 9496 Modeling and Simulation of Dynamic Systems
 9501 Finite Element Analysis with Engineering Applications
 9505 Structural Dynamics and Vibrations
 9516 Similitude, Modelling and Experimental Data Analysis
 9520 Solid and Structural Mechanics
 9550 Fatigue, Fracture and Corrosion
 9609 Environmental Risk Assessment
 9627 Environmental Systems Engineering
 9816 Antenna Theory
 9821 Digital Signal Processing
 9826 Advanced Control Systems
 9827 Continuous and Discrete-Event Systems
 9834 Advanced Power Electronics
 9847 Computer and Control Methods in Power Systems
 9861 High-Performance Computer Architecture
 9865 Advanced Digital Systems
 9867 Advanced Computing Concepts for Engineering
 9871 Information Theory and Coding
 9874 Software Design and Specification
 9876 Advanced Data Networks
 9901 Fundamentals of Fluid Dynamics
 9902 Advanced Transport Phenomena
 9940 Advanced Robotics

Other Courses:

9022 Marine Geotechnical Engineering
 9052 Ice Properties and Mechanics
 9090/99 Special Topics in Ocean Engineering (excluding 9096)
 9096 Marine and Offshore Ice Engineering
 9111 Well Testing
 9112 Multiphase Flow
 9116 Reliability Engineering
 9117 Offshore Petroleum Geology and Technology
 9119 Compact Process Equipment Design
 9120 Advanced Natural Gas Engineering
 9150-59 Special Topics in Oil and Gas Engineering
 9210 Advanced Engineering Materials
 9390/94 Special Topics in Engineering Management

9440 Optimization Principles in Engineering
 9495/99 Special Topics in Engineering Analysis (excluding 9496)
 9540/49 Special Topics in Mechanics, Structures and Materials
 9560 Applied Remote Sensing
 9601 Environmental Pollution and Mitigation (cross-listed as ENVS 6004)
 9603 Environmental Sampling and Pollutant Analysis (cross-listed as ENVS 6005)
 9605 Water and Wastewater Treatment
 9610/15 Special Topics in Environmental Engineering and Applied Science
 9621 Soil Remediation Engineering
 9622 Environmental Statistics
 9625 Environmental Impacts of Offshore Oil and Gas Operations
 9626 Environmental Management System
 9628 Environmental Laboratory
 9629 Environmental Policy and Regulations
 9630 Pollution Prevention
 9713 Stochastic Hydrology
 9723 Soil Properties and Behaviour (formerly 9720)
 9750 Advanced Topics in Analysis and Design of Reinforced Concrete (formerly 9701)
 9755 Advanced Topics in Precast and Prestressed Concrete (formerly 9702)
 9760/64 Special Topics in Geotechnical Engineering
 9790 Subsea Pipeline Engineering
 9791/99 Special Topics in Civil Engineering
 9802/05 (excluding 9804) Special Topics in Computer Engineering
 9804 Industrial Machine Vision
 9806/09 Special Topics in Communications Engineering
 9815 Electromagnetic Propagation
 9822 Nonlinear Digital Image Processing and Analysis
 9825 Random Signals (formerly 9830)
 9835 Advanced Electric Machines
 9848 Power System Stability (formerly 9812)
 9849 Power System Protection
 9850/53 Special Topics in Power Systems and Controls
 9866 Fault-Tolerant Computing (formerly 9846)
 9868 ASIC Design
 9869 Advanced Concurrent Programming
 9872 Digital Communications
 9873 Image Communications
 9875 Embedded and Real-Time Systems Design
 9877 Computer and Communications Security
 9878 Wireless and Mobile Communications
 9879 Formal Specification and Development
 9880/83 Special Topics in Computer Engineering
 9884/87 Special Topics in Signal Processing
 9888/91 Special Topics in Communications Engineering
 9892/95 Special Topics in Power Systems and Controls
 9896 Renewable Energy Systems
 9897/99 Special Topics in Applied Electromagnetics
 9910 Advanced Manufacturing
 9920 Advanced Concepts in Mechanical Design
 9925 Theory and Design of Mechanical Components and Structures
 9975/99 Special Topics in Mechanical Engineering

* Courses likely to be offered annually on a regular basis. Other courses will be offered if required in a student's program and dependent upon Faculty resources.

13 Regulations Governing the Degree of Master of Engineering Management

13.1 Program of Study

1. The Faculty of Engineering and Applied Science in collaboration with the Faculty of Business Administration offers a program in Engineering Management leading to the degree of Master of Engineering Management (M.E.M.). The program is available on a full-time or part-time basis.
2. The program is offered by the Faculty of Engineering and Applied Science and the Faculty of Business Administration and will be administered by a Board of Studies appointed jointly by the Dean of Engineering and Applied Science and the Dean of Business Administration.

13.2 Qualifications for Admission

1. Admission to the program is limited and competitive.
2. To be eligible for consideration for admission, an applicant shall meet the requirements set out in **General Regulations - Qualifications for Admission, Master's Program** or shall have qualifications and/or engineering experience that is acceptable to the Dean of Graduate Studies and to the Faculty of Engineering and Applied Science.
3. To be eligible for consideration for admission, applicants will meet the English Proficiency Requirements described under **General Regulations - Qualifications for Admission, English Proficiency Requirements**.
4. Applicants will normally be interviewed by representatives of the Board of Studies as part of the admission process.

13.3 Degree Requirements

The degree program requires the completion of 36 credit hours, 6 of which comprise a project course.

1. Students are normally required to complete Engineering 9395, 9396, and 9397, along with 9 additional credit hours from the **Master of Engineering, Core Courses** or the **Master of Engineering, Other Courses** offered for the Master of Engineering program, from which up to 3 credit hours may be taken from undergraduate courses approved for the student's program by the Dean of Graduate Studies on the recommendation of the Faculty of Engineering and Applied Science.
2. Students are normally required to complete Business 8104, 8106, 8109, 8206 and one of the following courses: Business 8103, 8107, 8108, 8204, 8205, 8207, or 8209.
3. Students who have not successfully completed a baccalaureate degree from a recognized university where English is the language of instruction will be required to complete an 8-week English as Second Language course prior to the start of the first regular academic semester and a one semester course covering the Engineering Profession and Communications during the second academic semester.

13.4 Evaluation

Students must obtain a grade of at least 65% in all program courses to receive credit for the course towards their program requirements. Any student who fails to receive 65% or more in a course must repeat the course in the case of required courses, or must either repeat or replace the course with another program course in the case of elective courses. Any student who receives a grade of less than 65% in two courses or in a repeated course will be required to withdraw from the program.

13.5 Courses

13.5.1 Required Courses

Business 8104 Organizations: Behaviour and Structure
 Business 8106 Marketing
 Business 8109 Accounting for Management
 Business 8206 Managerial Finance
 Engineering 9395 Engineering Management Project (6 credit hours)
 Engineering 9396 Engineering Management Topics
 Engineering 9397 Advanced Modelling and Quality Management

13.5.2 Elective Courses from the Faculty of Business Administration

Business 8103 Statistical Applications in Management
 Business 8107 Managing Ethics and Responsibility
 Business 8108 Economics for Business
 Business 8204 Human Resource Management
 Business 8205 Information Systems
 Business 8207 Operations Management
 Business 8209 Leadership and Interpersonal Skills for Managers

13.5.3 Elective Courses from the Faculty of Engineering and Applied Science

See **Core Courses and Other Courses** under **Master of Engineering**.

13.6 Industrial Internship Option

The Faculty permits graduates students to undertake internships of work in industry. These internships will allow students to either (a) enhance the application of their knowledge and skills within industry, or (b) complete a research project defined by the industry. Encouragement to undertake an internship will be given only where it is clear that one of these expectations can be met.

Students registered in the M.E.M. program may, with the permission of their Board of Studies, the Dean of the Faculty of Engineering and Applied Science, and the Dean of Graduate Studies, select the Industrial Internship Option. Students pursuing this option must satisfy the degree regulations for an M.E.M. program. In addition, students in the Industrial Internship Option:

1. shall normally complete at least 18 credit hours of the courses required for their program with an average of 75% or higher prior to the internship; the remaining required courses may be taken on campus or by distance
2. shall normally spend at least two continuous semesters on campus on a full-time basis as a graduate student at this university
3. shall normally spend 4 to 8 months of their program at an internship in industry
4. shall submit monthly reports to a university supervisor appointed by their Board of Studies, and shall submit a concise progress report to their Board of Studies no later than the end of each semester while on an internship
5. shall normally not opt out once the internship starts.

Successful completion of an internship will be indicated by a descriptive notation on the student transcript.

14 Regulations Governing the Degree of Master of Environmental Science

(see also **Master of Science in Environmental Science**)

Board of Studies

Dr. J. Wroblewski, Department of Ocean Sciences - Chair
 Dr. C. Campbell, Division of Science, Grenfell Campus, ex-officio
 Dr. B. Chen, Faculty of Engineering and Applied Science
 Dr. R. Chuenpagdee, Department of Geography
 Dr. P. Marino, Head, Department of Biology
 Dr. W. Montevecchi, Department of Psychology
 Dr. L. Tarasov, Department of Physics and Physical Oceanography
 Dr. S. Ziegler, Department of Earth Sciences

14.1 Program of Study

1. The Environmental Science Program is an interdisciplinary graduate program involving the departments of the Faculty of Science,

the Faculty of Arts, the Faculty of Medicine, and the Faculty of Engineering and Applied Science. There are three Environmental Science Graduate Degree streams: the Master of Science (M.Sc., Environmental Science), Master of Environmental Science (M.Env.Sci.), and the Doctor of Philosophy (Ph.D., Environmental Science). The program is available on a full or part-time basis.

- The program is administered by a Board of Studies appointed by the Dean of Science. Supervisors of graduate students in the program include faculty from the Faculty of Science, the Faculty of Arts, the Faculty of Engineering and Applied Science, the Faculty of Medicine, and the Environmental Science Program at the Grenfell Campus, as well as adjunct appointees to the program (as a co-supervisor).

14.2 Qualifications for Admission

Admission is limited and competitive. To be considered for admission applicants shall normally hold a Bachelor's (Honours) degree in Science, Geography or Environmental Science with at least second class standing, or equivalent, or a Bachelor's degree in Engineering from an institution recognized by the Senate or shall have qualifications and/or environmental experience acceptable to the Dean of Graduate Studies and the Board of Studies. The Board of Studies will make recommendations on admission to the Dean of Graduate Studies.

14.3 Degree Requirements

To the extent that resources permit, individual programs will be developed to suit students' interests and needs. However all programs must be approved by the Board of Studies and by the Dean of Graduate Studies. All **General Regulations** of the School of Graduate Studies shall apply to these degrees

- The Master of Environmental Science (M.Env.Sci.) is a multidisciplinary course-based degree, focussed on environmental issues. The Degree program provides for both multidisciplinary courses and for courses focussed on the student's specific area of interest.
- The Degree program requires completion of 24 credit hours of either **Option A** or **Option B** and a project report. The project report will be evaluated according to procedures outlined in **General Regulations, Theses and Reports**.

Option A

Students will be required to take a minimum of 15 credit hours in program courses, 9 credit hours of which must be ENVE/ENVS 6000, ENVS 6009 and ENVS 6010 and 6 credit hours from ENVE/ENVS 6001, 6002 and 6003. Students will also be required to take a minimum of 9 credit hours in elective courses approved by the Board of Studies, 6 credit hours of which will normally be selected from graduate courses offered by the Faculty of Science and the Faculty of Engineering and Applied Science. Students are advised to consult with instructors and Faculties regarding necessary prerequisites and availability.

Option B

Students will be required to take a minimum of 15 credit hours in program courses, 9 credit hours of which must be ENVE/ENVS 6000, ENVS 6009, and ENVS 6010 and 6 credit hours from ENVE/ENVS 6001, 6002 and 6003. Students will also be required to take a minimum of 6 credit hours in elective courses approved by the Board of Studies, normally selected from graduate courses offered by the Faculty of Science and Faculty of Engineering and Applied Science. In addition, students will be required to complete the 3 credit hours course ENVS 601W (work term).

ENVS 601W is a work term of one semester duration. Work term placements are arranged by the Division of Co-operative Education in consultation with the Program Chair and the student's Supervisor. The on-site employment supervisor and the Memorial University of Newfoundland Co-op Coordinator evaluate the work term based on the student's performance on the job and on a written work term report submitted by the student. The topic of the work term report must be related to the work experience and will be chosen by the student in consultation with the on-site employment supervisor and the Memorial University of Newfoundland Co-op Coordinator. The student will be permitted to submit a work term report only after the on-site employment supervisor and the Memorial University of Newfoundland Co-op Coordinator determine that the work term has been successfully completed. The work term report may become the basis for the project report for ENVS 6009 (Project) which is required for the M.Env.Sci. Degree. The Program Chair, on the advice of the Memorial University of Newfoundland Co-op Coordinator with input from the on-site employment supervisor, will recommend to the Dean of Graduate Studies a grade of Pass with Distinction, Pass or Fail. In cases where the Memorial University of Newfoundland Co-op Coordinator and the on-site employment supervisor are unable to reach agreement concerning the grade, the final decision lies with the Program Chair. Should a student fail to complete a work term successfully, the graduate student's M.Env.Sci. Supervisor and the Program Chair may submit to the Memorial University of Newfoundland Division of Co-operative Education a proposal for a different work term placement (only once). Or the student may apply to the Board of Studies for a change to the course-based M.Env.Sci. Option A, or to the thesis-based M.Sc. (Environmental Science).

14.4 Courses

ENVE/ENVS 6000 Environmental Science and Technology
 ENVE/ENVS 6001 Earth and Ocean Systems
 ENVE/ENVS 6002 Environmental Chemistry and Toxicology
 ENVE/ENVS 6003 Applied Ecology
 ENVS 6004 Environmental Pollution and Mitigation (cross-listed as ENGI 9601)
 ENVS 6007 Environmental Risk Assessment (cross-listed as ENGI 9609)
 ENVS 6008 Air Pollution (same as ENGI 9624)
 ENVS 6009 Environmental Science Project
 ENVS 6010 Environmental Seminar
 ENVS 6201-6210 Special Topics in Environmental Science
 ENVS 601W Work Term

15 Regulations Governing the Degree of Master of Gender Studies

Associate Professor and Head of the Department

K. Side

15.1 General Information

The Master of Gender Studies degree allows students to examine critically - at an advanced level - how gender shapes our identities, our social interactions and our world. Students will incorporate, into their study, frameworks for thinking about power relations and the ways those relations are shaped and challenged by intersecting constructions of gender, race, class, sexuality, age, ability and nationality.

Faculty members in the Department of Gender Studies bring research expertise and interests in a range of fields, including: citizenship and human rights; corporeal feminism; reproductive rights, auto-biography and life writing; postcolonial and transnational feminisms; and First Nations studies. This master's program offers a thriving environment that draws on the expertise of scholars from a wide range of academic disciplines.

The program is administered by the Department of Gender Studies and the Graduate Studies Advisory Committee.

The Graduate Co-ordinator, on behalf of the Department of Gender Studies, Graduate Studies Advisory Committee, makes recommendations to the Dean of Graduate Studies concerning admission, and financial support for students, and administers all other matters pertaining to the graduate program.

The Master of Gender Studies Degree offers, by full or part-time study, three degree options: thesis, project or internship.

15.2 Qualifications for Admission

1. Admission is limited and competitive. To be considered for admission, an applicant will normally hold an Honours Degree or equivalent, and will have a breadth of knowledge in Gender Studies satisfactory to the Graduate Studies Advisory Committee.
2. Applicants who do not have an adequate background in Gender Studies may be required to complete Gender Studies 3005 or Gender Studies 3025 or equivalent normally with a grade of 75% or higher.

15.3 Program of Study

1. Upon admission, each graduate student in the thesis program will be assigned an academic advisor for one year. The supervisory committee, formed prior to the development of the thesis project proposal, will include two supervisors. For students selecting the non-thesis option, one Supervisor will be selected.
2. All candidates are required to complete Gender Studies 6000, 6100, and 6200.
3. Three to 9 additional elective credit hours approved by the Graduate Studies Advisory Committee and the student's supervisor(s) will be required. These elective credit hours will comprise courses selected from graduate courses in cognate academic units, and/or Gender Studies 6300 and/or from the block of special topics courses in Gender Studies 6400-6420.
4. Each student will be required to give a public seminar on her/his thesis research, project or internship after the thesis proposal has been approved and before submission of her/his final thesis/project/internship report.

15.4 Thesis

1. Candidates for the Degree of Master of Gender Studies (thesis option) will be required to complete a minimum of 15 credit hours. Candidates will also be required to complete a thesis.
2. A thesis proposal, approved by the student's supervisors, will be presented to the Graduate Studies Advisory Committee for its approval. The thesis proposal must normally be approved by the Graduate Studies Advisory Committee no later than the end of the candidate's third semester in the program.
3. The thesis will be evaluated in accordance with the procedures outlined in General Regulation **Theses and Reports** of the School of Graduate Studies.

15.5 Project

1. Candidates for the Degree of Master of Gender Studies (project option) will be required to complete a minimum of 18 credit hours. Candidates will also be required to complete a project.
2. The Master's project must be interdisciplinary in nature and aimed at linking theoretical and practical knowledge by recognizing and articulating a problem relevant to Gender Studies and by developing and justifying theoretical and practical approaches. The project report should consist of the project (e.g. a film or video; a computer project; a website; a manual or guidebook; a kit of learning resources; photographs; audio or videotape, etc.) as well as a literature-based rationale, theoretical basis and justification for its use. The length of the written portion of the project should be 40-60 pages. Regardless of the form that the project takes (e.g. a film or video) a computer project; a website; a manual or guidebook; a kit of learning resources; photographs; audio or videotape, etc.) there must be a written project report.
3. A project proposal, approved by the student's supervisor, will be presented to the Graduate Studies Advisory Committee for its approval. The project proposal must normally be approved by the Graduate Studies Advisory Committee no later than the end of the candidate's third semester in the program.
4. The project will be evaluated in accordance with procedures outlined in General Regulation **Theses and Reports** of the School of Graduate Studies.

15.6 Internship

1. Candidates for the Degree of Master of Gender Studies (internship option) will complete a minimum of 18 credit hours. Candidates will also be required to complete an internship.
2. Internship placement shall be for one semester. Part-time internships of two semesters will require approval from the proposed agency or institution and the Graduate Studies Advisory Committee.
3. Students, in consultation with their supervisor and the Gender Studies Graduate Co-ordinator, will explore internship options and locate an eligible person to provide field instruction during their internship. Although consideration will be given to all factors affecting the location and type of all Gender Studies internships, the final decision regarding internship rests with the Head, Department of Gender Studies and the Dean of Graduate Studies.
4. Factors affecting the type and location of the internship include: the number of immersion hours per week; the extent to which the intern takes up a trainee, supervisory and/or research role and whether the intern would be working directly or indirectly with clients of the agency or institution.
5. Each internship shall be supervised by a Supervisory Committee of at least three members, including the candidate's supervisor, the field supervisor and Gender Studies Graduate Co-ordinator or her/his delegate.
6. The Supervisory Committee will meet with the intern and field supervisor at least once during the internship period to make an assessment of the nature and quality of the intern's progress, and to approve any modifications to the internship.
7. The internship proposal, approved by the student's supervisor, will be presented to the Graduate Studies Advisory Committee for its approval. The proposal must normally be approved by the Graduate Studies Advisory Committee no later than the end of the candidate's third semester in the program.

8. Regardless of the form that the internship takes, there must be a written internship report (40-60 pages). When the candidate completes the internship report, the Supervisory Committee will recommend to the Dean of Graduate Studies a grade of pass or fail. A candidate will be permitted to submit an internship report only after the Supervisory Committee has determined that the internship placement has been fully completed.
9. Should the Head, Department of Gender Studies, on the recommendation of the Supervisory Committee, terminate the internship prior to its completion, it may recommend to the Dean of Graduate Studies one of the following:
 - a. submission of a new internship proposal for a different field setting (once only);
 - b. selection of the thesis or project option;
 - c. termination of the student's program.

15.7 Courses

6000 Feminist Theory
 6100 Feminist Epistemologies and Methodologies
 6200 Graduate Seminar in Gender Studies
 6300 Feminism as Community
 6400-6420 Special Topics in Women's Studies

16 Regulations Governing the Degree of Master of Marine Studies (Fisheries Resource Management)

Vice-President (Marine Institute)

G. Blackwood

Associate Vice-President (Marine Institute) Academic and Student Affairs

P. Fisher

16.1 Administration

The programs will be administered by an Academic Director appointed by the Vice-President (Marine Institute), together with an Academic Advisory Committee.

An Academic Advisory committee will be appointed by the Dean of Graduate Studies on recommendation of the Vice-President (Marine Institute). This committee will consist of the Academic Director as Chair, three members from the Marine Institute and two members from other academic units of the University. Normally, all appointments will be for a period of three (3) years.

A Technical Advisory Committee consisting of a cross-section of members with professional expertise related to the fishery, will provide regular feedback on program content, instruction, and future direction of the Program. Members of this Committee will be appointed by the Dean of Graduate Studies on recommendation of the Vice-President (Marine Institute). The Academic Director will be an ex officio member and Chair of the Technical Advisory Committee. Normally all appointments will be for a period of three (3) years.

16.2 Programs

There are two graduate programs in Fisheries Resource Management: the **Graduate Diploma** and the **Master of Marine Studies**.

16.3 Graduate Diploma

The Graduate Diploma in Fisheries Resource Management provides an opportunity for fisheries professionals to enhance their perspective on fishery issues from a variety of disciplines.

16.3.1 Admission Requirements

To be admitted to the Graduate Diploma in Fisheries Resource Management, a student must be eligible to register in the Master of Marine Studies program (see **Master of Marine Studies, Admission Requirements** below).

16.3.2 Program of Study

The program is offered online and requires successful completion of 18 credit hours of course work selected from the **Courses** section below:

1. 5 core courses (15 credit hours)
2. 1 elective course (3 credit hours) from either **Category A** or **Category B** Electives

16.3.3 Evaluation

Candidates for the Graduate Diploma in Fisheries Resource Management must obtain a grade of B or better in all program courses.

16.4 Master of Marine Studies

The Master of Marine Studies (Fisheries Resource Management) (M.M.S.) is a multi-disciplinary program of study that will provide the candidate with exposure to all dimensions of modern fisheries resource management in an international context. The program is aimed at professionals working in or intending to enter careers in fisheries management. The program is offered online and requires successful completion of either (a) 24 credit hours of course work and a Major Report, or (b) 30 credit hours of course work. Students who have successfully completed the requirements for the Graduate Diploma may elect to continue their program of study in order to earn the Degree.

16.4.1 Admission Requirements

1. Admission to the program is on a competitive basis. To be considered for admission to the program an applicant must normally have an undergraduate degree with a minimum of a high second class standing from an institution recognized by the Senate.
2. In addition to the academic requirements in 1. above applicants will normally have a demonstrated commitment to fisheries through employment or experience in a sector of the fishery, in a regulatory agency or government Department connected to fisheries, in a

non-governmental agency, or through self-employment or consulting activities related to fisheries.

3. The deadlines for submission of applications for candidates wishing to enter studies are as follows:

Fall (September) semester: June 15
 Winter (January) semester: October 15
 Spring (May): semester: February 15

Applications received after listed deadlines will be considered as time and resources permit.

16.4.2 Program of Study

1. Candidates for the Master of Marine Studies (Fisheries Resource Management) shall be required to complete a minimum of either:
 - a. 24 credit hours of course work plus a Major Report on the **Course Work Plus a Major Report Route** completed in accordance with **General Regulation, Theses and Reports** of the School of Graduate Studies. Course work must include the following course selections from the **Courses** section below:
 - 5 core courses (15 credit hours)
 - 1 elective course (3 credit hours) from **Category A** Electives
 - 1 elective course (3 credit hours) from **Category B** Electives
 - 1 elective course (3 credit hours) from either **Category A** or **Category B**
 - b. 30 credit hours on a **Comprehensive Course Route** which must include the following course selections from the **Courses** section below:
 - 5 core courses (15 credit hours)
 - 2 elective courses (6 credit hours) from **Category A** Electives
 - 1 elective course (3 credit hours) from **Category B** Electives
 - 2 elective courses (6 credit hours) from either **Category A** or **Category B**
2. Dependent upon the applicant's academic background, other courses may be required by the Academic Advisory Committee.
3. Transfer of credit for graduate courses completed in other programs at the University or at other institutions recognized by Senate will be considered in accordance with School of Graduate Studies **General Regulations, Transfer of Course Credits**.
4. Those having partially completed the requirements for the degree under 2011-2012 Calendar Regulations may apply to transfer to one of the above program options and will be considered in accordance with the following:
 - a. Those having previously completed all coursework required for the degree, but who have not submitted the Major Report, may satisfy the **Comprehensive Course Route** requirements by successfully completing an additional 6 credit hours of courses as follows:
 - MSTM 6005 (for students who completed the former FRM 6009 to satisfy the 24 credit hours of courses required under previous program regulations, an additional elective course chosen from **Category A** or **B** must be selected in place of this course)
 - One further elective course (3 credit hours) from **Category A** or **B** electives
 - b. Those having previously completed all coursework required for the degree may satisfy the Major Report requirements by successfully completing:
 - MSTM 6001 (or the former FRM 6001)
 - MSTM 6002 (or the former FRM 6002)
 - MSTM 6003 (or the former FRM 6003)
 - MSTM 6004 (or either of the former FRM 6004 or FRM 6005)
 - MSTM 6005 (or the former FRM 6009)
 - a Major Report completed in accordance with **General Regulations, Theses and Reports** of the School of Graduate Studies together with the following course selections from the **Courses** section below:
 - 1 elective course (3 credit hours) from **Category A** Electives
 - 1 elective course (3 credit hours) from **Category B** Electives
 - 1 elective course (3 credit hours) from either **Category A** or **Category B**. The former FRM 6007 and/or FRM 6008 may be used to partially satisfy the elective requirement.
 - c. Those having previously partially completed the coursework required for the degree may satisfy the **Comprehensive Course Route** requirements by successfully completing:
 - MSTM 6001 (or the former FRM 6001)
 - MSTM 6002 (or the former FRM 6002)
 - MSTM 6003 (or the former FRM 6003)
 - MSTM 6004 (or either of the former FRM 6004 or FRM 6005)
 - MSTM 6005 (or the former FRM 6009) together with the following course selections from the **Courses** section below:
 - 1 elective course (3 credit hours) from **Category A** Electives
 - 1 elective course (3 credit hours) from **Category B** Electives
 - 3 elective courses (9 credit hours) from either **Category A** or **Category B**. The former FRM 6007 and/or FRM 6008 may be used to partially satisfy the elective requirement.

16.4.2.1 Course Work Plus a Major Report Route

24 credit hours of course work plus a Major Report completed in accordance with **General Regulations, Theses and Reports** of the School of Graduate Studies. Course work must include the following course selections from the **Courses** section below:

1. 5 core courses (15 credit hours)
2. 1 elective course (3 credit hours) from **Category A** Electives
3. 1 elective course (3 credit hours) from **Category B** Electives
4. 1 elective course (3 credit hours) from either **Category A** or **Category B**

16.4.2.2 Comprehensive Course Route

30 credit hours on the Comprehensive Course Route which must include the following course selections from the **Courses** section below:

1. 5 core courses (15 credit hours)
2. 2 elective courses (6 credit hours) from **Category A** Electives
3. 1 elective course (3 credit hours) from **Category B** Electives
4. 2 elective courses (6 credit hours) from either **Category A** or **Category B**

16.4.3 Evaluation

1. Candidates for the Master's Degree must obtain a grade of B or better in all program courses.
2. Candidates who have received a grade less than a B in a program course will be permitted to remain in the program, provided the course is retaken and passed with a grade of B or better. Alternatively the candidate may, on the recommendation of the Academic Advisory Committee, substitute another graduate course. Only one such repeat or substitution will be permitted in the program.
3. The Major Report will normally be undertaken towards the end of the program. The topic of the report and a faculty Supervisor will be chosen by the candidate in consultation with the Academic Advisory Committee. The report provides an opportunity to synthesise an original perspective on a selected fisheries issue through the examination of appropriate literature and other sources of information. Normally the report will be multi-disciplinary in nature and will result in a document equivalent to a publishable periodical journal article or a consultant's report on a particular issue. It will be assessed in accordance with **General Regulations, Theses and Reports** of the School of Graduate Studies.

16.5 Courses

16.5.1 Core Courses

- MSTM 6001 Fisheries Ecology (*Credit restriction: credit may be obtained for only one of MSTM 6001 and the former FRM 6001*)
 MSTM 6002 Fisheries Resource Assessment Strategies (*Credit restriction: credit may be obtained for only one of MSTM 6002 and the former FRM 6002*)
 MSTM 6003 Fisheries Economics (*Credit restriction: credit may be obtained for only one of MSTM 6003 and the former FRM 6003*)
 MSTM 6004 Fisheries Policy and Planning (*Credit restriction: credit may be obtained for only one of MSTM 6004, the former FRM 6004, and the former FRM 6005*)
 MSTM 6005 Overview of World Fisheries (*Credit restriction: credit may be obtained for only one of MSTM 6005 and the former FRM 6009*)

16.5.2 Category A Electives

- MSTM 6006 Business Management for Fisheries (*Credit restriction: credit may be obtained for only one of MSTM 6006 and the former FRM 6006*)
 MSTM 6007 Fisheries Technology
 MSTM 6008 Social and Philosophical Issues of Fisheries Management
 MSTM 6009 Current Issues for Sustainable Fisheries
 MSTM 6010 Legal Aspects of Fisheries Resource Management

16.5.3 Category B Electives

- MSTM 6022 Communication and Conflict Resolution in a Technical Environment
 MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
 MSTM 6033 Quality Systems
 MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
 MSTM 6039 Sustainability and Environmental Responsibility
 MSTM 6044 Marine Environment Law and Pollution Control
 MSTM 6056 Management for International Development
 MSTM 6071 Management of Aquaculture Technology

17 Regulations Governing the Degree of Master of Maritime Management

Vice-President (Marine Institute)

G. Blackwood

Academic Director

J. Parsons

17.1 Administration

The Master of Maritime Management (M.M.M.) program will be administered by an Academic Director appointed by the Vice-President (Marine Institute), together with an Academic Advisory Committee.

An Academic Advisory Committee will be appointed by the Dean of Graduate Studies on recommendation of the Vice-President (Marine Institute). This committee will consist of the Academic Director as Chair, three members from the Marine Institute, one member from the Faculty of Business Administration and one member from another unit of the University. Normally, all appointments will be for a period of three (3) years.

A Technical Advisory Committee, consisting of a cross-section of members with professional expertise related to the maritime sector, will provide regular feedback on program content, instruction, and future direction of the Program. Members of this Committee will be appointed by the Dean of Graduate Studies on recommendation of the Vice-President (Marine Institute). The Academic Director will be an ex officio member and Chair of the Technical Advisory Committee. Normally all appointments will be for a period of three (3) years.

17.2 Program

The Master of Maritime Management (M.M.M.) is a comprehensive academic program that provides a broad understanding of the structure and operation of organizations and the factors that influence business decisions in the context of maritime-based organizations. It provides a maritime management focus through the development of knowledge and understanding of the nature of technical operations and the factors that have an impact on their success, as well as the ability to apply these concepts within their organizations.

The program is offered online and requires successful completion of either (i) 24 credit hours of course work and a comprehensive project and report (6 credit hours), or (ii) 30 credit hours of course work. Candidates will typically register on a part-time basis, but any who register for full time study may complete the program in three semesters.

17.2.1 Admission Requirements

1. Admission to the program is on a competitive basis. To be considered for admission to the program an applicant will normally possess a second class or better undergraduate degree from a university of recognized standing and will normally have:
 - a. a Memorial University of Newfoundland Bachelor of Maritime Studies or Bachelor of Technology, or a comparable undergraduate degree with appropriate maritime sector and business management course work; and
 - b. an appropriate technical knowledge and relevant marine sector employment experience.
2. The deadlines for submission of applications for candidates wishing to enter studies are as follows:
 - Fall (September) semester: June 15
 - Winter (January) semester: October 15
 - Spring (May) semester: February 15
 Applications received after listed deadlines will be considered as time and resources permit.

17.2.2 Program of Study

1. Candidates for the Master of Maritime Management shall be required to complete a minimum of either:
 - a. Twenty-four credit hours of course work and a major project and report (6 credit hours). Course work includes two compulsory core courses (6 credit hours); and six elective courses (18 credit hours). Students on the project route will complete MSTM 6101 Project in Maritime Management (6 credit hours).
 - i. **Core Courses (Two to be completed):**
 - MSTM 6041 Marine Policy
 - MSTM 6042 Business of Shipping/Transportation of Goods
 - ii. **Elective Courses (Six to be completed: a minimum of one from Category A and three from Category B):**
 - Category A**
 - MSTM 6022 Communication and Conflict Resolution in a Technical Environment
 - MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
 - MSTM 6030 Principles of Management for Engineering Technology Enterprises
 - MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
 - MSTM 6039 Sustainability and Environmental Responsibility
 - MSTM 6052 Management of Intellectual Property
 - MSTM 6054 Technology Assessment
 - Category B**
 - MSTM 6027 Coastal and Ocean Environmental Policies
 - MSTM 6043 Marine Law
 - MSTM 6044 Marine Environment Law and Pollution Control
 - MSTM 6045 Port Operations and Management
 - MSTM 6046 Information Systems in the Marine Environment
 - MSTM 6047 Maritime Security and Event Investigation
 - MSTM 6048 Emerging Issues in International Marine Transportation
 - MSTM 6049 Maritime Risk Analysis and Management
 - MSTM 6050 Maritime Health, Safety, Environment and Quality
 - iii. **Project in Maritime Management**
 - MSTM 6101 Project in Maritime Management (6 credit hours)
 Students will choose a topic in consultation with the Academic Director and will work independently to carry out an in-depth study of a problem or application within the area of maritime management and fully document and present their findings. Preferably the problem will be directly related to a workplace situation.
 - b. Thirty credit hours on a course-based route. Course work includes two compulsory core courses (6 credit hours); and eight elective courses (24 credit hours).
 - i. **Core Courses (Two to be completed):**
 - MSTM 6041 Marine Policy
 - MSTM 6042 Business of Shipping/Transportation of Goods
 - ii. **Elective Courses (Eight to be completed: a minimum of two from Category A and four from Category B):**
 - Category A**
 - MSTM 6022 Communication and Conflict Resolution in a Technical Environment
 - MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
 - MSTM 6030 Principles of Management for Engineering Technology Enterprises
 - MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
 - MSTM 6039 Sustainability and Environmental Responsibility
 - MSTM 6052 Management of Intellectual Property
 - MSTM 6054 Technology Assessment
 - Category B**
 - MSTM 6027 Coastal and Ocean Environmental Policies
 - MSTM 6043 Marine Law
 - MSTM 6044 Marine Environment Law and Pollution Control
 - MSTM 6045 Port Operations and Management

MSTM 6046 Information Systems in the Marine Environment
 MSTM 6047 Maritime Security and Event Investigation
 MSTM 6048 Emerging Issues in International Marine Transportation
 MSTM 6049 Maritime Risk Analysis and Management
 MSTM 6050 Maritime Health, Safety, Environment and Quality

Up to three relevant elective courses (9 credit hours) may be transferred from other graduate programs within the School of Graduate Studies or from other post-secondary institutions recognized by Senate, subject to the approval of the Dean of Graduate Studies on the recommendation of the Academic Director.

17.2.3 Evaluation

1. Candidates for the Master of Maritime Management degree must obtain a grade of B or better in all program courses.
2. Candidates who receive a grade of less than B in any course will be permitted to remain in the program provided the course is repeated and passed with a grade of B or better. Alternatively, the candidate may, on the recommendation of the Academic Director, and with the approval of the Dean of Graduate Studies, substitute another graduate course. Only one course repetition or substitution will be permitted during the candidate's program after which the candidate shall be required to withdraw from the program.

18 Regulations Governing the Degree of Master of Music

Professor and Dean

E. Waterman

Professor and Associate Dean

M. Volk

The Master of Music (M.Mus.) program provides the environment for accelerated advances in comprehension, skills and abilities as a performing musician, music pedagogue or conductor while offering experience in the metier of the contemporary musician. To that end, the School of Music has forged active partnerships with many of the professional music organizations and institutions within the arts community in the greater St. John's region which afford an exceptional range of professional experiences to its graduate students. Included among these partners are the Newfoundland Symphony Orchestra, the Canadian Broadcasting Company, Heritage Canada, the Newfoundland and Labrador Arts Council and many others. Within the areas of specialization offered for the M.Mus., there is considerable flexibility available to further focus the program to meet specific interests and needs.

18.1 Program of Study

The Degree of Master of Music (M.Mus.) is offered by full-time study, normally commencing in the Fall semester. Three areas of specialization are offered:

1. Conducting. Students may focus in choral conducting, instrumental conducting, or a combination of choral and instrumental conducting.
2. Performance. Instruction is offered in voice, piano, organ, flute, clarinet, saxophone, oboe, trumpet, euphonium, trombone, tuba, guitar, violin, viola and cello.
3. Performance/Pedagogy. Instruction is offered in voice, piano, organ, flute, clarinet, saxophone, oboe, trumpet, euphonium, trombone, tuba, guitar, violin, viola and cello.

The specialization of Ethnomusicology is available through the degrees Master of Arts and Doctor of Philosophy. For further information see the section **Regulations Governing the Degree of Master of Arts** and the section **Regulations Governing the Degree of Doctor of Philosophy**, respectively.

18.2 Qualifications for Admission

1. Admission to the program is limited and competitive. The application deadline is December 15 for admission to the following Fall semester. Under special circumstances, applicants may be considered for admission to the Winter semester. For further information, contact the School of Music.
2. To be eligible for consideration for admission, applicants shall meet the requirements set out in **General Regulations for Admission, Master's Program**. Applicants to the M.Mus. will normally hold a Bachelor of Music or equivalent from a recognized university or conservatory. Preference will be given to applicants who hold first class standing in their undergraduate program.
3. In addition to the requirements above, admission is further determined by audition and diagnostic examinations.
 - a. Auditions for September entry are normally held in late February or early March of each year. Check the School of Music website at www.mun.ca/music for dates and locations.
 - b. Applicants to the M.Mus. in Performance or Performance/Pedagogy may submit the audition as a professional quality video recording if they are unable to attend the live auditions. An unedited live performance is preferred. The audition program should display a range of performance styles and repertoire. Applicants should consult the School of Music website at www.mun.ca/music for details on length of audition and appropriate repertoire.
 - c. Applicants to the M.Mus. in Conducting should submit professional quality video recordings of their work with a minimum of two different types of ensembles. These video recordings should include both rehearsals and performances.
 - d. Applicants to all M.Mus. programs will be required to write diagnostic examinations measuring their skills and knowledge in the standard areas of musical literacy. These include music theory and analysis, aural skills, and music history and literature which includes repertoire knowledge in the performance area. Applicants who display deficiencies in any of these areas may still be considered for admission. Once admitted, however, they will be required to take remedial course work in addition to the required program.
 - e. Voice and choral conducting applicants will have language competency assessed during the audition. Students admitted in voice and in choral conducting who lack sufficient background in English, German, French and Italian diction and basic comprehension will be required to take remedial undergraduate course work.
 - f. Further information about the audition requirements, the diagnostic exams and language competency requirements is available at www.mun.ca/music/programs/graduate/admission.php or from the Associate Dean, School of Music.

18.3 Degree Requirements

1. The Degree of Master of Music is normally completed in two years of full-time study. Comprehensive examinations are not administered. The normal residency period may, in some instances, be reduced through Summer and Intersession study.
2. All candidates for the M.Mus. must complete at least 31 credit hours. Further courses may be required depending on the background of the individual student.
3. All candidates must complete:
 - a. Music Research Methods: Music 6000 (1 credit hour)
 - b. Music Seminar: Music 6002
 - c. Career Skills for Musicians: Music 6700
 - d. Further courses may be required depending on the background of the individual student.
4. Candidates in Conducting must complete an additional 24 credit hours according to their area of focus:
 - a. Choral Conducting
 - i. Choral Conducting: Music 6310, 6311, 7310
 - ii. Instrumental Conducting: Music 6210
 - iii. Score Study and Analysis: Music 6100
 - iv. Choral Repertoire: Music 6007
 - v. Electives: Six credit hours. With the approval of the School of Music. 3 credit hours may be from related disciplines.
 - b. Instrumental Conducting
 - i. Instrumental Conducting: Music 6210, 6211, 7210
 - ii. Choral Conducting: Music 6310
 - iii. Score Study and Analysis: Music 6100
 - iv. Orchestral or Instrumental Ensemble Repertoire: Music 6006 or 6008
 - v. Electives: Six credit hours. With the approval of the School of Music. 3 credit hours may be from related disciplines.
 - c. Combined Choral/Instrumental Conducting
 - i. Instrumental Conducting: Music 6210, 6211
 - ii. Choral Conducting: Music 6310, 6311
 - iii. Score Study and Analysis: Music 6100
 - iv. Ensemble Repertoire: One of Music 6006, 6007, or 6008
 - v. Electives: Six credit hours. With the approval of the School of Music. 3 credit hours may be from related disciplines.
5. Candidates in Performance must complete an additional 24 credit hours as follows:
 - a. Principal Applied Study: Music 645A/B, 745A/B
 - b. Other Applied Study: 3 credit hours from Music 6500-6506, 646A/B
 - c. Music Pedagogy: Music 6400
 - d. Electives: Six credit hours. With the approval of the School of Music. 3 credit hours may be from related disciplines.
6. Candidates in Performance/Pedagogy must complete an additional 24 credit hours as follows:
 - a. Principal Applied Study: Music 647A/B, 747A/B
 - b. Music Pedagogy: Music 6400 and 6600
 - c. Pedagogy Internship: Music 6610
 - d. Electives: 3 credit hours

Master of Music Curriculum Summary Table

Master of Music	Conducting			Performance	Performance/ Pedagogy
Research	6000, 6002			6000, 6002	6000, 6002
Career Skills	6700			6700	6700
Applied	Choral 6210 6310 6311 7310	Instrumental 6210 6211 6310 7210	Combined 6210 6211 6310 6311	645A/B 745A/B 3 credit hours chosen from 646A/B, 6500- 6506	647A/B 747A/B
Complementary	6007 6100	6006 or 6008 6100	one of 6006, 6007, 6008 6100	6400	6400, 6600, 6610
Electives	6 credit hours, of which 3 may be from related disciplines			6 credit hours, of which 3 may be from related disciplines	3 credit hours

18.4 Evaluation

1. Candidates must meet all requirements of the **General Regulations** of the School of Graduate Studies.
2. Candidates must obtain a grade of at least 65% in all program courses to receive credit for the course toward their program requirements. Candidates who fail to receive 65% or more in a required course must repeat the course. Candidates who fail to receive 65% or more in an elective course must either repeat the course or replace it with another program course. Any student who receives a grade of less than 65% in two courses or in a repeated course will be required to withdraw from the program.

3. In addition, failure to receive a grade of 75% or higher in any of Music 645A/B, Music 745A/B, Music 647A/B, Music 747A/B, Music 6210, Music 6211, Music 6310, Music 6311, Music 7210 or Music 7310 will lead to termination of the student's program."

18.5 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the School will allow. All courses are 3 credit hours unless otherwise indicated.

6000 Music Research Methods (1 credit hour)
 6002 Graduate Seminar
 6005 Performance Practice
 6006 Instrumental Ensemble Repertoire
 6007 Choral Repertoire
 6008 Orchestral Repertoire
 6009 Music Literature
 6100 Score Study and Analysis
 6210 Instrumental Conducting I
 6211 Instrumental Conducting II
 6212 Instrumental Conducting Internship I (1 to 3 credit hours)
 6213 Instrumental Conducting Internship II (1 to 3 credit hours)
 6310 Choral Conducting I
 6311 Choral Conducting II
 6312 Choral Conducting Internship I (1 to 3 credit hours)
 6313 Choral Conducting Internship II (1 to 3 credit hours)
 6400 Music Pedagogy
 645A/B Principal Applied Study I (6 credit hours)
 646A/B Secondary Principal Applied Study (4 credit hours)
 647A/B Principal Applied Study I (6 credit hours)
 6500 Chamber Music (2 credit hours per semester. Maximum: 8 credit hours)
 6501 Chamber Music (3 credit hours per semester. Maximum: 12 credit hours)
 6502 Opera Performance (2 credit hours)
 6503 Opera Performance (3 credit hours)
 6504 Chamber Music (1 credit hour per semester. Maximum: 4 credit hours)
 6505 Conducted Instrumental Ensemble (1 credit hour per semester. Maximum: 4 credit hours)
 6510 Seminar in Performance Issues
 6600 Pedagogy Seminar
 6610 Pedagogy Internship I
 6611 Pedagogy Internship II
 6700 Career Skills for Musicians
 6701 Music in the Community (1 credit hour)
 6702 Music in the Community (2 credit hours)
 6703 Music in the Community (3 credit hours)
 6750 Music Industries Internship (2 credit hours)
 7002 Research Paper
 7010 World Music: Music of Asia and Oceania
 7011 World Music: Music of Africa and the Americas
 7012 Canadian Musical Traditions
 7013 Music and Culture
 7017 Folksong
 7018 Jazz and Blues: The Roots of Popular Music
 7210 Instrumental Conducting III
 7310 Choral Conducting III
 745A/B Principal Applied Study II (6 credit hours)
 747A/B Principal Applied Study II (6 credit hours)

Special Topics Courses

6800-6809
 6900-6909
 7800-7809

19 Regulations Governing the Degree of Master of Nursing

Professor and Dean

J. McFetridge-Durdle

Professor and Associate Dean (Graduate Program and Research)

S. Solberg

19.1 Program

1. The responsibility for the administration of all graduate programs shall reside with the Dean of Graduate Studies.
2. Applicants for the program shall be required to apply for admission to the Dean of the School of Graduate Studies and shall be expected to follow the regulations, policies and practices required of the School. Deadline for receipt of applications should be no later than February 15. If space is available, students who apply after the deadline date may be accepted.
3. The School of Nursing offers a Master of Nursing (M.N.) program with three options: (thesis, non-thesis and nurse practitioner) as well as a Post Masters Nurse Practitioner Graduate Diploma.

19.2 Qualifications for Admission

1. Applicants to the Master of Nursing program in any of the three options listed above must have a baccalaureate Degree in nursing, or an equivalent from an institution recognized by the University and a knowledge of nursing satisfactory to the School of Nursing.
2. Admission to the program is limited and competitive. To be considered for admission, the applicant must have maintained at least a

grade B standing in the baccalaureate program.

- Applicants are also required to have a minimum of one year's experience in nursing practice, and to have completed an undergraduate nursing research course, and a statistics course normally within the last 5 years such as Statistics 2500 or Education 2900 or their equivalents.
- Applicants must hold a practising licence from the Association of Registered Nurses of Newfoundland and Labrador or must be currently registered as a practising nurse in another Canadian jurisdiction. Applicants from other countries who do not meet the above criteria will be assessed on an individual basis. However, they must submit proof of registration as a practising nurse (or an equivalency) from their country or jurisdiction.
- In addition to the above requirements, candidates seeking admission to the MN-Nurse Practitioner Degree option must have two years of clinical experience preferably in their chosen specialty area. As well, candidates must have a letter from a health care agency and a clinical preceptor guaranteeing the candidate a preceptored clinical placement for the final semester of their program.
- In addition to requirements 1 and 4, candidates seeking admission to the Post Masters Nurse Practitioner Graduate Diploma program must have completed a Masters Degree in Nursing or an equivalent degree with a nursing focus and have two years of clinical nursing experience preferably in their chosen specialty area. As well, candidates must have a letter from a health care agency and clinical preceptor guaranteeing the candidate a preceptored clinical placement for the final semester of their program.
- Only in exceptional circumstances and only on the recommendation of the School of Nursing shall the Dean of Graduate Studies consider applicants who do not meet admission requirements listed above.

19.3 Registration

See School of Graduate Studies **General Regulations, Registration**.

19.4 Programs of Study

There are three routes offered that lead to a Master of Nursing Degree: 1. Thesis option, 2. Non-thesis option, and 3. Nurse Practitioner option. Normally the program will require two years to complete when taken on a full-time basis.

In addition to the M.N. Degree program, the School of Nursing also offers a Post Masters Nurse Practitioner Graduate Diploma.

19.4.1 Thesis Option

- Candidates must complete an approved program of study consisting of a minimum of 19 credit hours in graduate program courses and a thesis.

Required courses:

6010 Research in Nursing I: Quantitative Methods

6011 Philosophical and Theoretical Foundations of Nursing

6100 Research in Nursing II: Qualitative Methods

Either 6200 Nursing Individuals and Families through Life Transitions, and N6210 Nursing Therapeutics for Individuals and Families

OR 6220 Concepts for Population-based Nursing, and 6230 Interventions for Population-based Nursing

One nursing elective

- Candidates shall submit a thesis on an approved subject in which systematic research has been conducted under the direction of a Supervisor recommended by the Dean of the School of Nursing and approved by the Dean of Graduate Studies.
- The program of each candidate shall be approved by the Dean of Graduate Studies on the recommendation of the Dean of the School of Nursing.

19.4.2 Non-Thesis Option

- Candidates must complete an approved program of study consisting of a minimum of 28 credit hours in graduate program courses and 6 credit hours in a consolidated practicum.

Required courses:

6010 Research in Nursing I: Quantitative Methods

6011 Philosophical and Theoretical Foundations of Nursing

6100 Research in Nursing II: Qualitative Methods

6040 Nursing Informatics

Either 6200 Nursing Individuals and Families through Life Transitions and 6210 Nursing Therapeutics for Individuals and Families

OR 6220 Concepts for Population-based Nursing, and 6230 Interventions for Population-based Nursing

Three of the following courses:

6020 Program Development in Nursing

6031 Education in Nursing

6050 Leadership in Nursing

6060 Policy and Politics in Nursing and Health Care

Other approved electives

One of the following consolidated practicums:

6610, 6611 Practicum in Advanced Clinical Practice

6620, 6621 Practicum in Nursing Administration

6630, 6631 Practicum in Nursing Research/Research Utilization

6640, 6641 Practicum in Health Policy

6650, 6651 Practicum in Nursing Education

The consolidated practicum will normally consist of 300 hours of field experience.

- The program of each candidate shall be approved by the Dean of Graduate Studies on the recommendation of the Dean of the School of Nursing.

19.4.3 Nurse Practitioner Option

- Candidates must complete an approved program of studies consisting of a minimum of 36 credit hours in graduate program courses and an integrated clinical practice experience, comprising 12 credit hours.

Required courses:

6010 Research in Nursing I: Quantitative Methods (4 credit hours)

6011 Philosophical and Theoretical Foundations of Nursing (3 credit hours)
 6100 Research in Nursing II: Qualitative Methods (3 credit hours)
 6020 Program Development in Nursing (3 credit hours)
 6200 Nursing Individuals and Families through Life Transitions (3 credit hours)
 6210 Nursing Therapeutics for Individuals and Families (3 credit hours)
 6701 Advanced Practice Issues and Role Development (2 credit hours)
 6703 Advanced Health Assessment and Clinical Practicum I (4 credit hours)
 6704 Applied Pathophysiology and Clinical Practicum II (4 credit hours)
 6705 Pharmacotherapy and Therapeutics (3 credit hours)

Either one of: 6800 Adult Advanced Clinical Decision Making (4 credit hours), 6802 Family/All Ages Clinical Decision Making (4 credit hours) or, one of: 6803 to 6809 Nursing Specialty Option Courses (4 credit hours)

690X Advanced Clinical Practicum II (The integrated practice component will normally consist of a minimum of 400 hours of preceptored specialty clinical practice and biweekly seminars) (12 credit hours)

- The program of each candidate shall be approved by the Dean of Graduate Studies on the recommendation of the Dean of the School of Nursing.

19.4.4 Post Masters Nurse Practitioner Graduate Diploma

- Candidates with a Master's Degree in Nursing or an equivalent Degree with a nursing focus must complete an approved program of study consisting of a minimum of 21 credit hours in graduate program courses and integrated clinical practice experience, comprising 12 credit hours.

Required courses:

6701 Advanced Practice Issues and Role Development (2 credit hours)
 6703 Advanced Health Assessment and Clinical Practicum I (4 credit hours)
 6704 Applied Pathophysiology and Clinical Practicum II (4 credit hours)
 6705 Pharmacotherapy and Therapeutics (3 credit hours)

Either one of: 6800 Adult Advanced Clinical Decision Making (4 credit hours), 6802 Family/All Ages Clinical Decision Making (4 credit hours) or, one of: 6803 to 6809 Nursing Specialty Option Courses (4 credit hours)

690X Advanced Clinical Practicum II (The integrated practice component will normally consist of a minimum of 400 hours of preceptored specialty clinical practice and biweekly seminars) (12 credit hours)

- Programs for some candidates may exceed the above minimum requirements.
- The program for each candidate shall be approved by the Dean of Graduate Studies on the recommendation of the Dean of the School of Nursing.

19.5 Evaluation

- In order to continue in graduate studies and in order to qualify for a Master's Degree, a candidate shall obtain an A or B grade in each program course.
- If the candidate is in the Non-thesis Option, the candidate must obtain a Pass grade for the practicum component of the program.
- When the Dean of the School of Nursing has determined on the basis of consultation with the candidate, the Associate Dean, Graduate Program and Research, and the thesis or practicum Supervisor, that a candidate has fallen below a satisfactory level, the Dean of the School of Nursing may recommend to the Dean of Graduate Studies that such a candidate be required to withdraw from the program.
- To remain in good standing candidates are required to maintain professional behaviour consistent with the current *Code of Ethics* of the Canadian Nurses Association and, when applicable, the Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans. Candidates who fail to meet this requirement will be required to withdraw from the School of Nursing upon recommendation of the Graduate Studies Committee.

19.6 Thesis

See School of Graduate Studies **General Regulations, Theses and Reports**.

19.7 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the School of Nursing will allow:

6010 Research in Nursing I: Quantitative Methods (4 credit hours)
 6011 Philosophical and Theoretical Foundations of Nursing (3 credit hours)
 6020 Program Development in Nursing (3 credits hours) (Pre or co-requisite: 6011)
 6031 Education in Nursing (3 credit hours) (Not required by students who have completed 6030. Credit may not be obtained for both 6030 and 6031)
 6040 Nursing Informatics (3 credit hours)
 6050 Leadership in Nursing (3 credit hours)
 6060 Policy and Politics in Nursing and Health Care (3 credit hours)
 6100 Research in Nursing II: Qualitative Methods (3 credit hours)
 6200 Nursing Individuals and Families through Life Transitions (3 credit hours) Pre or co-requisite: 6011 (Not required by students who have completed 6400)
 6210 Nursing Therapeutics for Individuals and Families (3 credit hours) Pre or co-requisite: 6200 (Not required by students who have completed 6400)
 6220 Concepts for Population-based Nursing (3 credit hours) Prerequisites: 6011 (Not required by students who have completed 6410)
 6230 Interventions for Population-based Nursing (3 credit hours) Pre or co-requisite: 6220 (Not required by students who have completed 6410)
 6310-6350 Special Topics in Nursing (electives)
 6501-10 Individual Readings and Research in Special Areas
 6610-6611 Practicum in Advanced Clinical Practice (6 credit hours) (Prerequisites: All required and elective courses including 6020 and 6050)
 6620-6621 Practicum in Nursing Administration (6 credit hours) (Prerequisites: All required and elective courses including 6050 and 6060)

6630-6631 Practicum in Nursing Research/Research Utilization (6 credit hours) (Prerequisites: All required and elective courses including 6060)

6640-6641 Practicum in Health Policy (6 credit hours) (Prerequisites: All required and elective courses including 6050 and 6060)

6650-6651 Practicum in Nursing Education (6 credit hours) (Prerequisites: All required and elective courses including 6020 and 6031)

6701 Advanced Practice Issues and Role Development (2 credit hours)

6703 Advanced Health Assessment and Clinical Practicum I (4 credit hours)

6704 Applied Pathophysiology and Clinical Practicum II (4 credit hours)

6705 Pharmacotherapy and Therapeutics (3 credit hours)

6800 Adult Advanced Clinical Decision Making (4 credit hours)

6802 Family/All Ages Clinical Decision Making (4 credit hours)

One of: 6803 to 6809 Nursing Specialty Option Courses (4 credit hours)

690X Advanced Clinical Practicum II (The integrated practice component will normally consist of a minimum of 400 hours of preceptored specialty clinical practice and biweekly seminars) (12 credit hours)

20 Regulations Governing the Degree of Master of Philosophy

Programs leading to the Degree of Master of Philosophy (M.Phil.) are offered at present in German Language and Literature, and in the Humanities.

20.1 Qualifications for Admission

- Admission is limited and competitive. To be considered for admission an applicant shall hold a Bachelor's Degree or its equivalent from an institution recognized by the Senate and shall have a knowledge of his or her proposed field of specialization satisfactory to the Department(s) concerned when interdisciplinary study is intended or to the Board of Studies in the case of the program in Humanities, and to the Dean.
- Preference will normally be given to applicants who hold an appropriate Honours Degree either from Memorial University of Newfoundland, or from another university whose Honours Degree is of comparable standing. Any other applicant who holds a Bachelor's Degree or its equivalent will be considered for admission provided that:
 - the applicant's undergraduate record after the first year shows an average of at least grade B in courses in the proposed field of specialization.
 - the applicant's overall undergraduate record after the first year shows an average of at least grade B in all courses taken, and
 - the Department or Board of Studies satisfies the Dean that the applicant's work exhibits evidence of academic excellence.
 Only in exceptional circumstances, and only on the recommendation of the Department or the Board of Studies, will the Dean consider applicants who do not meet the requirements a. and b. Such applicants, however, must meet the requirement c.
- An applicant may be required to demonstrate a satisfactory knowledge of the proposed field of study in an examination administered by the Department(s), or Board of Studies.
- Applicants whose mother tongue is not English are reminded that a high degree of literacy in English is required of students at the University. In most cases instruction is in English, and examinations are to be written in English. (Language departments, however, give instruction in the pertinent language and often require examinations to be written in that language. In addition, other departments may permit and even require examinations to be written in a language other than English).
- An applicant may be required to pass a qualifying examination.

Note: Some Departments have particular regulations in addition to these, and applicants are advised to turn to the relevant parts of this Calendar and acquaint themselves with both the **General Regulations** and the regulations of the program in which they are interested.

20.2 Program of Study

- Every candidate shall read at least 30 credit hours in program courses in one subject or in a combination of closely related subjects as recommended by the Department(s) or Board of Studies, and approved by the Dean.
- A candidate may be required also to take additional credit hours in program courses, which must be recommended by the Department(s) or Board of Studies, and approved by the Dean.
- Students registered in the program in Humanities will be required to maintain and submit for evaluation a program Journal (See **Program of Study, 3. of the Regulations for the Degree of Master of Philosophy in Humanities**).
- No candidate while classified as a part-time student may take more than 6 credit hours in any one semester.
- No candidate may take more than 9 credit hours in graduate courses in a single semester, nor any credit hours in undergraduate courses at the same time as 9 credit hours in graduate courses; in no case may graduate and undergraduate credit hours combined exceed 12 in any one semester.
- The course program will culminate in a general comprehensive examination (see **Evaluation - General Comprehensive Examination** below).
- Every candidate shall be assigned to a tutor recommended by the Department(s) or Board of Studies and approved by the Dean.
- The Dean may approve an application to transfer from the M.Phil. to the M.A. only when a new integrated program, acceptable to the Dean, is submitted.

20.3 Period of Study

The period of study for the Master of Philosophy Degree shall not normally exceed three years, during which time the candidate shall spend at least two semesters in full-time attendance as a graduate student at this University.

20.4 Evaluation

See also **Evaluation under General Regulations**.

- Students registered in undergraduate courses shall satisfy examination requirements in these courses.
- The academic requirements for the Degree of Master of Philosophy shall be met when the candidate has successfully completed all course requirements of the program and has passed a general examination which consists of both written and oral parts. The Dean, on the recommendation of the Department(s) or Board of Studies, shall determine the times and places for general examinations; and, on the recommendation of the Department(s) or Board of Studies, shall appoint examiners, one of whom shall be from outside the Department(s) concerned. In the M.Phil. in Humanities, a program Journal is also required.

20.5 Evaluation - General Comprehensive Examination

1. Each candidate must pass a general comprehensive examination.
2. The examination committee shall be appointed by the Dean on the recommendation of the Department(s) or Board of Studies. The committee shall consist of either three or five members, at least one of whom must come from outside the Department(s) concerned. The candidate shall be informed of the names of the committee well before the examination.
3. The candidate and the tutor will normally agree when the candidate may sit the general comprehensive examination. However, the Department(s) or Board of Studies must accede to the candidate's request to sit a comprehensive examination, except that in no circumstances may a candidate attempt the general comprehensive examination before his or her course program is completed.
4. The schedule for the examination shall be agreed by the candidate, the tutor, and the examining committee, and shall be promulgated by the Dean.
5. The examination shall consist of a written part and an oral part. The time between the written and the oral parts shall normally be from one to four weeks.
6. The oral examination shall be from one to three hours in length, and shall be conducted by the examining committee, and shall be open to the examination committee and to members of the Department(s) or Board of Studies only.
7. A candidate must satisfy the examining committee in both parts of the examination to obtain a pass.
8. The successful completion of the comprehensive examination is the final academic requirement for the Master of Philosophy Degree.

20.6 Departmental Regulations

Every candidate in a graduate program shall comply with any additional program requirements and with the **General Regulations**.

20.7 German

Associate Professor and Head of the Department

E. Warkentin

20.7.1 Program of Study

The degrees of Master of Arts and Master of Philosophy are offered in German Language and Literature and may be taken by full-time or part-time study. No graduate work is offered in Russian at this time.

1. In addition to the general requirements, candidates will be expected to have acquired a superior knowledge of the spoken and written language and may, depending on their academic background and field of specialization, be asked to take advanced undergraduate courses.
2. All candidates will complete at least 15 credit hours and a thesis for the M.A. and at least 30 credit hours for the M.Phil., and the entire program of study and research will normally be of two-years' duration.

20.7.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6000 German Civilization I
 6001 German Civilization II
 6100 History of the German Language I
 6101 History of the German Language II
 6200 Medieval German Literature I
 6201 Medieval German Literature II
 6300 German Literature, 1500-1700 I
 6301 German Literature, 1500-1700 II
 6400 German Literature of the Enlightenment and Storm and Stress I
 6401 German Literature of the Enlightenment and Storm and Stress II
 6500 German Classicism I
 6501 German Classicism II
 6600 German Romanticism I
 6601 German Romanticism II
 6700 German Realism I
 6701 German Realism II
 6800 German Literature, 1880-1933 I
 6801 German Literature, 1880-1933 II
 6900 Contemporary German Literature I
 6901 Contemporary German Literature II
 7000 Special Subject or Author I
 7001 Special Subject or Author II
 7002-7020 Special Topics in German Studies

Deutsch

Professor and Vorstand der Abteilung

E. Warkentin

Auf dem Gebiet der Germanistik werden die Grade Master of Arts (Magister Artium) und Master of Philosophy (Magister Philosophiae) geboten. Sie können sowohl von voll- wie auch von halbzweijährig Studierenden erworben werden. Auf dem Gebiet der Slawistik wird z.Zt. kein weiterführendes Studium geboten.

1. Ausser den allgemeinen Zulassungsbestimmungen wird von den Kandidaten überdurchschnittliche Kenntnis des Deutschen in Sprache und Schrift erwartet. Ihrer akademischen Vorbildung und ihrem Fachgebiet entsprechend, kann ihnen eventuell geraten werden, gleichzeitig fortgeschrittene Kurse der Unterstufe zu belegen.
2. Für den Master of Arts sind mindestens 15 Kreditstunden zu absolvieren und eine wissenschaftliche Arbeit in Übereinstimmung mit den allgemeinen Zulassungsbestimmungen einzureichen, für den Master of Philosophy sind mindestens 30 Kreditstunden vorgeschrieben. Das ganze Studienprogramm dauert normalerweise zwei Jahre.

Kurse

Von den hier aufgeführten Kursen für Graduierte wird jeweils eine Auswahl angeboten, die sowohl den Anforderungen des Studierenden wie den Möglichkeiten der Abteilung gerecht wird.

6000 Deutsche Kulturkunde I
 6001 Deutsche Kulturkunde II
 6100 Geschichte der deutschen Sprache I
 6101 Geschichte der deutschen Sprache II
 6200 Mittelhochdeutsche Literatur I
 6201 Mittelhochdeutsche Literatur II
 6300 Deutsche Literatur 1500-1700 I
 6301 Deutsche Literatur 1500-1700 II
 6400 Deutsche Literatur der Aufklärung und des Sturm und Drang I
 6401 Deutsche Literatur der Aufklärung und des Sturm und Drang II
 6500 Deutsche Klassik I
 6501 Deutsche Klassik II
 6600 Deutsche Romantik I
 6601 Deutsche Romantik II
 6700 Deutscher Realismus I
 6701 Deutscher Realismus II
 6800 Deutsche Literatur 1880-1933 I
 6801 Deutsche Literatur 1880-1933 II
 6900 Deutsche Gegenwartsliteratur I
 6901 Deutsche Gegenwartsliteratur II
 7000 Wahlthema oder-Autor I
 7001 Wahlthema oder-Autor II
 7002-7020 Wahlthemen in German Studies

20.8 Humanities**Assistant Professor and Director, Board of Studies**

J. Dyer

The Master of Philosophy in Humanities has been designed for students from any discipline. It is directed to students who hold an Honours bachelor's Degree or its equivalent. The object of the M.Phil. in Humanities program is to provide students with an opportunity to see the historical and logical context of their own disciplinary points of view. The program is based on the interaction of a group of students of varying backgrounds and interests studying a common core of texts in a shared set of courses.

The program draws scholarly participation from faculty members in a range of academic disciplines within the School of Graduate Studies. The program is administered by a Board of Studies with membership appointed by the Dean of Arts, chosen from the participating faculty.

Master of Philosophy

In addition to meeting these regulations students must also meet the **General Regulations Governing the Degree of Master of Philosophy**.

This program is offered by the Faculty of Arts, and will draw scholarly participation chosen from those appropriately qualified faculty members wishing to participate, regardless of Department or Faculty affiliation.

20.8.1 Qualifications for Admission

1. Admission is limited and competitive. The number of students admitted to the program will be strictly limited to ensure small classes and maximum student-faculty contact. To be considered for admission an applicant will normally hold an Honours Bachelor's Degree (or equivalent) from an institution recognized by the Senate, and will have a breadth of knowledge in one or more of the Humanities disciplines satisfactory to the Board of Studies, and to the Dean.
2. Applicants who do not hold an Honours Degree (or equivalent) will be required to complete, prior to admission, a number of undergraduate courses, the nature and number of which will be determined on the basis of the applicants' undergraduate record by the Director of Studies in consultation with the Board of Studies. Candidates will be required to complete such designated pre-admission courses with a minimum overall average of 70%.

20.8.2 Administration

1. The program will be administered by a Board of Studies, the members of which will be appointed by the Dean of Arts chosen from the participating faculty.
2. There will be a Director of Studies who will be an *ex officio* of the Board of Studies and will make recommendations to the Dean concerning admission, financial support for students, and all other matters pertaining to the program.
3. Responsibility for the allocation of teaching and the support of related research will be managed by agreement between the Deans of the appropriate Faculties, the Heads of Departments of participating faculty members, and the Director of Studies, in consultation with the Dean of Graduate Studies.
4. The Board of Studies will be empowered to secure external grant funding where appropriate, and to manage all related administrative and financial matters as necessary.

20.8.3 Program of Study

1. Every candidate shall normally read 30 credit hours in the 10 regulation courses listed below.
2. With permission of the Director of Studies, a candidate may elect to substitute up to two of these courses with courses from other graduate programs in this University. Attendance in other programs requires the permission of the departments involved. (See also School of Graduate Studies General Regulation **Program Requirements, Transfer of Course Credits** which allows for further transfer of credits already taken but not yet applied to a graduate degree.)
3. Every candidate shall be required to maintain and submit a program Journal which will be monitored and evaluated by the Board of Studies. The Journal will comprise the candidate's critical reflections arising out of analyses of designated key themes common to the several disciplines which constitute the program.

20.8.4 Comprehensive Examination

1. Each candidate must pass a general comprehensive examination.
2. The Examination Committee shall be appointed by the Dean of Graduate Studies on the recommendation of the Board of Studies. The Committee shall normally consist of three members. One member of the Committee is normally the tutor. The candidate shall be informed of the names of the committee well before the examination.
3. The candidate and the tutor will normally agree when the candidate may sit the general comprehensive examination. However, the Board of Studies must accede to the candidate's request to sit a comprehensive examination, except that in no circumstances may a candidate attempt the general comprehensive examination before his or her course program is completed.
4. The schedule for the examination shall be agreed by the candidate, the tutor, and the Examining Committee, and shall be promulgated by the Dean.
5. The examination shall consist of a written part and an oral part. The time between the written and the oral parts shall normally be from one to four weeks.
6. The program journal is an extended paper or series of linked papers which analyses and reflects critically on issues encountered by the candidate during the course of the program. Papers and/or projects completed during courses may be incorporated into the program journal, but shall not, of themselves, constitute the entire journal.
7. The oral examination shall be from one to three hours in length, shall be conducted by the Examining Committee, and shall be open only to the Examination Committee, members of the Board of Studies and members of the Departments concerned.
8. A candidate must satisfy the Examining Committee in both parts of the examination to obtain a pass.
9. The successful completion of the comprehensive examination is the final academic requirement for the Master of Philosophy Degree.

20.8.5 Courses

6000 Speaking and Writing I
 6001 Speaking and Writing II
 6010 Readings in History I
 6011 Readings in History II
 6020 Readings in Western Literature I
 6021 Readings in Western Literature II
 6030 Readings in Philosophy I
 6031 Readings in Philosophy II
 6040 Readings in Science and Technology
 6041 Seminar in Humanities

21 Regulations Governing the Degree of Master of Physical Education

Associate Professor and Dean

A. Card

Professor and Associate Dean

D. Behm

The Degree of Master of Physical Education (M.P.E.) is offered by full-time and part-time study. Part-time study is available through Internet-based distance education technology.

21.1 Qualifications for Admission

1. Admission is limited and competitive. The deadline for receipt of applications is March 1 for admission into the subsequent Fall semester. To be considered for admission an applicant shall normally hold a Bachelor's Degree in Physical Education, Recreation and Leisure Studies or a related discipline, with at least second class standing, from an institution recognized by Senate. In addition to the above, preference will be given to applicants with work experience, obtained either through Cooperative Education programs or through employment deemed appropriate.
2. Any other applicant who holds a Bachelor of Physical Education or Recreation and Leisure Studies Degree or its equivalent may be considered for admission provided that:
 - a. the applicant's undergraduate record after the first year shows an average of at least grade B in physical education and/or recreation and leisure studies courses, OR
 - b. the applicant has raised his/her overall academic standing to second class following the completion of the undergraduate degree, through the successful completion of an approved pattern of undergraduate courses.
3. Only in exceptional circumstances and only on the recommendation of the School of Human Kinetics and Recreation shall the Dean of Graduate Studies consider applicants who do not meet these admission requirements.

21.2 Program of Study and Research

1. The Degree of Master of Physical Education is offered under three options:

Option i. The program shall consist of a minimum of 15 credit hours in graduate courses plus a thesis. The thesis shall be on an approved subject in which systematic research has been conducted by the candidate under the direction of the Supervisor.

Option ii. The program shall consist of a minimum of 15 credit hours in graduate courses plus a project report. The project shall be on an approved subject in which action-research has been conducted by the candidate under the direction of the Supervisor.

Option iii. The program shall consist of a minimum of 24 credit hours in graduate courses plus a comprehensive examination in the candidate's major area of study.
2. The candidate's major area of study shall be Administration, Curriculum and Supervision in Physical Education.

In conjunction and collaboration with other Faculties and Schools of Memorial University of Newfoundland, students may pursue their special interests through an interdisciplinary course of study. The student's interests may be accommodated through individual reading and research in these special areas.
3. The required courses for the degree shall normally include:

Option I: HKR 6500, one of 6000 or 6001, 6120, plus two of 6003, 6111, 6121, 6122, 6123, 6124, 6125, 6610-6615 (plus thesis)

Option ii: HKR 6500, one of 6000 or 6001, 6120, plus 3 of 6003, 6111, 6121, 6122, 6123, 6124, 6125, 6610-6615 (plus project)

Option iii: HKR 6500, one of 6000 or 6001, 6120, plus 5 of 6003, 6111, 6121, 6122, 6123, 6124, 6125, 6610-6615 (plus comprehensive examination)

Equivalent courses may be substituted from other Faculties or Schools subject to the approval of the School of Human Kinetics and Recreation Graduate Studies Committee. In addition, all on-campus candidates shall be required to complete four semester-length seminar courses (HKR 6510-6513). Off-campus or part-time candidates who cannot attend the on-campus seminar series can substitute 24 hours of participation (over their two year tenure) and present once at national, provincial or regional conferences, workshops, professional development seminars or equivalent activities.

21.3 Evaluation

1. Candidates must obtain an A or B grade in each program course. In accordance with General Regulation **Evaluation, Evaluation of Graduate Students** only one course may be repeated.
2. When the Dean has determined, on the basis of consultation with the candidate and the instructors, that a candidate's work has fallen below a satisfactory level, he or she may recommend to the Dean of Graduate Studies that the candidate be required to withdraw from the program.

21.4 Thesis and Project Report

1. A student completing a Master of Physical Education thesis option will be required to present a thesis proposal for his or her proposed thesis normally by the end of the third semester. The thesis proposal shall normally consist of a full written proposal (including literature review) submitted to the Supervisory Committee, a summary to be distributed to graduate students and faculty one week prior to the presentation and a formal presentation normally at the seminar series. The candidate may be questioned on his/her proposal by the Supervisory Committee and seminar audience. Any deficiencies noted during the presentation should be carefully considered by the student and the Supervisory Committee prior to proceeding with the thesis.
2. Evaluation of the thesis or project report shall be governed by School of Graduate Studies **General Regulations, Theses and Reports**. The thesis or project report shall normally be evaluated by two examiners approved by the Dean.
3. When the thesis or project report has been completed to the satisfaction of the Dean, the Dean shall recommend that the candidate be awarded the degree.

21.5 Comprehensive Examinations

1. Candidates electing to qualify for the Degree under Option iii must write a comprehensive examination. The comprehensive examination shall examine the candidate's ability to integrate and apply material from all course work completed during study for the Degree. The candidate may be required to appear for an oral examination.
2. The comprehensive examination shall normally be constructed and evaluated by an examining committee of three examiners, at least two of whom shall be faculty members of the School of Human Kinetics and Recreation appointed by the Dean on the recommendation of the Dean of the School.
3. A candidate may not write the examination before completing the course work for the Degree.

Note: *Every candidate in graduate studies shall comply with the **General Regulations**, the Degree Regulations and any additional requirements of the Department.*

21.6 Courses

6000 Quantitative Methods in Physical Education
 6001 Qualitative Research Methods in Physical Education
 6002 Scientific and Cultural Foundations of Physical Education
 6003 Physical Education, Culture and Society
 6110 Physical Education, Recreation and Sport Management
 6111 Canadian Delivery Systems in Physical Education, Recreation and Sport
 6120 Curriculum Development in Physical Education
 6121 Physical Education Leadership
 6122 Comprehensive School Health
 6123 Coaching and Long-term Athlete Development in the Education System
 6124 Adapted Physical Activity for Persons with Physical and Intellectual Disabilities
 6125 Evaluation and Testing in Physical Education
 6130 Computer Applications in Physical Education
 6410 Sport and Society
 6420 History of Physical Education and Sport
 6500 Introduction to Research in Physical Education
 6600 Contemporary Issues and Trends in Physical Education
 6510-6513 Graduate Seminar Series (non-credit)
 6610-15 Individual Reading and Research in Special Areas

22 Regulations Governing the Degree of Master of Public Health

Professor and Dean

J. Rourke

Professor and Interim Associate Dean

D. McKay

Associate Professor and Acting Assistant Dean

D. Gustafson

The degree of Master of Public Health (M.P.H.) is offered by the Faculty of Medicine, with specializations in **Population and Public Health** and **Nutrition and Dietetics**.

The Population and Public Health specialization delivers an advanced program of study for students from various academic fields who are interested in a professional degree that will prepare them for practical work in a variety of public health practice settings. The program is available for full-time and part-time study noting that full-time attendance is required during the Public Health Practicum (or Public Health Capstone Research Project) portion of the program. It is anticipated that full-time students will complete the program in 12 months in accordance with **Table I - Master of Public Health Recommended Course Sequence for Full-Time Students in the Population and Public Health Specialization**.

The Nutrition and Dietetics specialization provides a research enriched program of study for full-time students who wish to pursue a career in dietetics or community nutrition. This specialization offers an opportunity for advanced academic study in the field of public health. Upon completion of the program, which includes a dietetics internship, students will be eligible to write the qualifying exam of Dietitians of Canada. It is anticipated that full-time students will complete the program in 24 months in accordance with **Table II - Master of Public Health Recommended Course Sequence for Full-Time Students in the Nutrition and Dietetics Specialization**.

The **General Regulations** of the School of Graduate Studies and the Degree Regulations outlined below will apply.

22.1 Qualifications for Admission

Admission to the Master of Public Health is limited and competitive. The regulations and procedures for admission are as given under the **General Regulations** of the School of Graduate Studies governing Master's degrees. In addition, to be considered for admission to the Nutrition and Dietetics specialization applicants must have successfully completed an undergraduate dietetics program accredited by Dietitians of Canada as indicated at www.dietitians.ca.

22.2 Program of Study

22.2.1 Population and Public Health

- Minimum requirements for the M.P.H. degree in Population and Public Health will include the successful completion of 42 credit hours as follows:
 - Eight core courses: Public Health Leadership and Management (MED 6725), Epidemiology I (MED 6270), Policy and Decision Making (MED 6288), Communicable Disease Prevention and Control (MED 6724), Biostatistics I (MED 6200), Health Promotion (MED 6723), Environmental Health (MED 6722) and Disease and Injury Prevention (MED 6721).
 - Six additional credit hours in elective courses chosen from the **Courses** listing below, or other courses as approved by the M.P.H. program coordinator.
 - The Public Health Seminar Series courses (MED 6700 - 6701).
 - Either, the Public Health Practicum (MED 6710) or the Public Health Capstone Research Project (MED 6711) as determined by the Graduate Program Committee depending on the professional background and experience of the candidate.

The Public Health Practicum is a full-time practice experience conducted in a work setting and following the guidelines set forth by the Public Health Agency of Canada (PHAC) at www.phac-aspc.gc.ca/index-eng.php.

All course work must be completed prior to the initiation of either the Public Health Practicum or the Public Health Capstone Research Project.

Table I - Master of Public Health Recommended Course Sequence for Full-Time Students in the Population and Public Health Specialization

Semester	Courses
Fall	MED 6270 Epidemiology I MED 6288 Policy and Decision Making MED 6700 Public Health Seminar Series I MED 6724 Communicable Disease Prevention and Control MED 6725 Public Health Leadership and Management MED Elective Course
Winter	MED 6200 Biostatistics I MED 6701 Public Health Seminar Series II MED 6721 Disease and Injury Prevention MED 6722 Environmental Health MED 6723 Health Promotion MED Elective Course
Spring	MED 6710 Public Health Practicum, or MED 6711 Public Health Capstone Project

22.2.2 Nutrition and Dietetics

- Minimum requirements for the M.P.H. degree in Nutrition and Dietetics will include the successful completion of the following:
 - Six core courses: Public Health Leadership and Management (MED 6725), Epidemiology I (MED 6270), Community Health Research Methods (MED 6280), Biostatistics I (MED 6200), Community Nutrition (MED 6731), Professional Practice (MED

6730)

- b. The Public Health Seminar Series courses (MED 6700 - 6701)
- c. The Dietetics Research Project (MED 671A/B)
- d. The Dietetics Internship (MED 6733 - 6736). The Dietetics Internship is a practice experience conducted in a work setting and following the guidelines set forth by the Dietitians of Canada.

Dietetics Internship I & II (MED 6733 & 6734) are non-credit, mandatory, part-time internship components completed during the first and second academic semesters of the program in accordance with **Table II - Master of Public Health Recommended Course Sequence for Full-Time Students in the Nutrition and Dietetics Specialization**. A grade of NC (No credit) will be awarded for these two internship components.

Building on the components of Dietetics Internship I & II, Dietetics Internship III & IV (MED 6735 & 6736) are full-time internship blocks each of which will normally extend beyond the regular semester timeframe. Evaluation of the internship blocks will be on a PASS/FAIL basis.

All core courses and seminars must be completed prior to the initiation of the Dietetics Internship III (MED 6735) and/or the Dietetics Research Project (MED 671A/B).

Table II - Master of Public Health Recommended Course Sequence for Full-Time Students in the Nutrition and Dietetics Specialization

Semester	Courses
Fall	6725 Public Health Leadership and Management 6270 Epidemiology I 6280 Community Health Research Methods 6700 Public Health Seminar Series I 6733 Dietetics Internship I
Winter	6200 Biostatistics I 6731 Community Nutrition 6730 Professional Practice 6701 Public Health Seminar Series II 6734 Dietetics Internship II
Spring	671B Dietetics Research Project
Fall	671A Dietetics Research Project
Winter	6735 Dietetics Internship III
Spring	6736 Dietetics Internship IV

22.3 Courses

A selection of the following graduate courses shall be offered to meet the requirements of candidates, as far as the resources of the Faculty allow:

6102 Critical Theory in Health and Society
6200 Biostatistics I
6220 Introduction to Community Health
6247 Chronic Disease Epidemiology
6250 Basic Clinical Epidemiology
6270 Epidemiology I
6275 Epidemiology II
6280 Community Health Research Methods
6282 Canadian Health Care System
6288 Policy and Decision Making
6290 Determinants of Health: Healthy Public Policy
6293 Knowledge Transfer and Research Uptake
6294 Advanced Qualitative Methods
6390 Human Population Genetics
6700 Public Health Seminar Series I (1 credit hour)
6701 Public Health Seminar Series II (1 credit hour)
671A/B Dietetics Research Project (6 credit hours)
6710 Public Health Practicum (10 credit hours)
6711 Public Health Capstone Project (10 credit hours)
6720 Public Health Surveillance
6721 Disease and Injury Prevention
6722 Environmental Health
6723 Health Promotion
6724 Communicable Disease Prevention and Control
6725 Public Health Leadership and Management
6730 Professional Practice
6731 Community Nutrition
6733 Dietetics Internship I (non-credit component)
6734 Dietetics Internship II (non-credit component)
6735 Dietetics Internship III (17 week Internship block - 10 credit hours)
6736 Dietetics Internship IV (16 week Internship block - 10 credit hours)

23 Regulations Governing the Degree of Master of Science

Professor and Dean

M. Abrahams

Professor and Associate Dean (Graduate and Research)

M. Courage

The degree of Master of Science (M.Sc.) is offered at present in Aquaculture, Biochemistry, Biology, Chemistry, Cognitive and Behavioural Ecology, Computational Science, Computational Science (Co-operative), Computer Science, Earth Sciences (Geology), Earth Sciences (Geophysics), Environmental Science, Experimental Psychology, Food Science, Geography, Instrumental Analysis, Marine Biology, Mathematics, Physical Oceanography, Physics, Statistics. Interdisciplinary studies are encouraged; applicants should consult the academic unit concerned.

23.1 Qualifications for Admission

1. Admission is limited and competitive. To be considered for admission an applicant will normally hold at least a high second class Honours Degree, or an M.D. Degree, or the equivalent of either, both in achievement and depth of study, from an institution recognized by the Senate, and shall have knowledge of the proposed field of specialization satisfactory to the Dean.
2. Any other applicant may be considered for admission provided that:
 - a. the applicant's undergraduate record after the first year shows an average of at least Grade B in courses in the proposed field of specialization.
 - b. the applicant's overall undergraduate record after the first year shows an average of at least Grade B in all courses taken.
 In addition, an applicant may be required to demonstrate a satisfactory knowledge of the proposed field of study in an examination administered by the academic unit concerned.
3. Only in exceptional circumstances, and only on the recommendation of the academic unit concerned, will the Dean consider applicants who do not meet these requirements of Clause 2.
4. Applicants who do not possess the prerequisite academic qualifications should consult the appropriate academic unit about a program of further undergraduate courses. Such a program will be intended to raise their qualifications to a level considered academically equivalent to Honours. Such courses may not be used to fulfill the regulation course requirements of the M.Sc. Degree.
5. A high degree of literacy in English is required of all graduate students in the University.

Note: *Some Departments have specific regulations in addition to those outlined above, and prospective applicants are advised to turn to the relevant part of this Calendar and acquaint themselves with the regulations of the Department or appropriate academic unit in which they are interested.*

23.2 Program of Study and Research

1. The program of study for the Master of Science Degree shall consist of the successful completion of a program of courses and, in accordance with the specific program regulations, either of a thesis embodying original research or of a project and report.
2. Every candidate shall read at least 6 credit hours in graduate program courses in one subject or in closely related subjects, and such other courses as may be required in an individual program. Undergraduate courses may, if necessary, be included as additional courses.
3. Where Departmental regulations require more than the minimum number of credit hours, the Dean, on the recommendation of the appropriate academic unit, may waive in part the credit hour requirements for a Master's Degree, provided that no student may take less than the 6 required credit hours in graduate program courses.
4. Students may, with the approval of the Dean, augment their studies with 6 credit hours in other courses of their choice. The grading system in non-program courses shall be that appropriate to the particular course, and the final grades in these courses will be recorded on the student's transcripts. However, passing grades are not required in these non-program courses in order to continue in graduate studies or obtain a Master's Degree. (See General Regulation **Evaluation, Evaluation of Graduate Students**).
5. Every candidate shall submit a thesis or report on an approved subject in which systematic research has been conducted under the direction of a Supervisor recommended by the academic unit concerned and approved by the Dean. The candidate may be required to take an oral examination.
6. The program of courses, the thesis or report topic and the Supervisor, and all changes in these, must be approved by the Dean.

23.3 Evaluation

1. In order to continue in the School of Graduate Studies and in order to qualify for a Master's Degree, a candidate shall obtain an A or B grade in each program course. (See General Regulation **Evaluation, Evaluation of Graduate Students**).
2. When it has been determined, on the basis of consultation with the candidate, the instructors in graduate courses, and the thesis or report Supervisor, that a candidate's work has fallen below a satisfactory level, the Supervisor or the Head of the appropriate academic unit may recommend to the Dean that such a candidate be required to withdraw from the program.

23.4 Thesis

See General Regulation **Theses and Reports**

Note: *Every candidate in graduate studies shall comply with the **General Regulations**, the Degree Regulations and any additional requirements of the appropriate academic unit.*

23.5 Aquaculture

Administrative Committee

Mr. C. Couturier, Fisheries and Marine Institute - Chair
 Dr. S. Dufour, Department of Biology
 Dr. K. Gamperl, Department of Ocean Sciences
 Dr. L. Halfyard, Fisheries and Marine Institute
 Dr. I. McGaw, Department of Ocean Sciences
 Dr. C. Parrish, Department of Ocean Sciences
 Dr. F. Shahidi, Department of Biochemistry

The program of study leading to the Master of Science in Aquaculture is designed to instruct students in research using scientific principles derived from a wide range of disciplines including Behaviour, Biochemistry, Biology, Ecology, Food Science, Genomics, Nutrition and Physiology. It is an interdisciplinary program and often involves several fields of study. Research problems may include field and/or laboratory studies of one or more species of marine or freshwater flora and/or fauna. The Aquaculture group consists of faculty members from the Fisheries and Marine Institute of Memorial University of Newfoundland and the Departments of Biology, Biochemistry, and Ocean Sciences of Memorial University of Newfoundland. Research scientists at other institutions, e.g., Fisheries and Oceans Canada, complement the group in offering advice, facilities and expertise to students in the program.

The Aquaculture Administrative Committee is responsible for the program. This Committee is composed of seven members appointed by the Dean of Science including two to three members from the Department of Ocean Sciences, two to three members from the Fisheries and Marine Institute of Memorial University of Newfoundland, and two members from appropriate academic units at Memorial University of Newfoundland. In addition, the Heads of the Departments of Biochemistry, Biology, and Ocean Sciences, and the Head of the School of Fisheries of the Fisheries and Marine Institute of Memorial University of Newfoundland are ex-officio members. The Committee makes recommendations to the Dean of the School of Graduate Studies concerning the academic requirements of the program: admission, course programs of individual students, financial support, composition of supervisory committees, and thesis examiners. The Chair of the Committee will also ensure that a supervisory report form for each student in the program is submitted annually to the Dean.

23.5.1 Qualifications for Admission

To be considered for admission to the Master of Science in Aquaculture, an applicant shall normally hold one of the following: at least a second class Honours degree, or an equivalent both in achievement and depth of study, from an institution recognized by the Senate, or successful completion of the Advanced Diploma in Sustainable Aquaculture offered by the Fisheries and Marine Institute of Memorial University of Newfoundland, with academic standing deemed appropriate by the Committee.

23.5.2 Program of Study

1. The Master of Science Degree requires the successful completion of a program of courses and of a thesis embodying original research.
2. All candidates will be required to take 6 credit hours in graduate courses which will normally include at least one of the following: AQUA 6000 - Shellfish Culture and Enhancement, AQUA 6100 - Finfish Aquaculture, or AQUA 6200 - Aquaculture and the Environment.
3. Candidates who do not hold the Advanced Diploma in Sustainable Aquaculture may be required to successfully complete a selection of its component courses.
4. Further courses may be required depending on the background of the individual student.
5. Before the thesis is submitted, the student shall present an open seminar on the topic of investigation to the appropriate academic units, as recommended by the Administrative Committee. Any serious deficiencies in the thesis noticed at this stage should be carefully considered, in consultation with the Supervisor, for rectification.
6. The student will be required to comply with all other regulations governing the graduate Degree of Master of Science.

23.5.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow:

Aquaculture

AQUA 6000 - Shellfish Culture and Enhancement
 AQUA 6100 - Finfish Aquaculture
 AQUA 6200 - Aquaculture and the Environment
 AQUA 6201-6209 - Special Topics in Aquaculture (Prerequisite: Permission of Chair of Program)

Biochemistry

BIOC 6670 - Biological Waste Treatment

Biology

BIOL 6000 - Research Topics in Microbiology
 BIOL 6710 - Marine Benthic Biology
 BIOL 7101 - Topics in Marine Biology
 BIOL 7220 - Quantitative Methods in Biology
 BIOL 7933 - Advanced Topics in Marine Invertebrates
 BIOL 7938 - Genomics
 BIOL 7531 - Biological Oceanography
 BIOL 7535 - Research Methods in Marine Science
 BIOL 7550 - Fishery Biology
 BIOL 7551 - Fisheries Resource Management
 BIOL 7560 - Physiology of Marine Invertebrates
 BIOL 7561 - Physiology of Marine Vertebrates
 BIOL 7570 - Marine Benthic Biology
 BIOL 7910 - Community and Ecosystem Ecology

Cognitive and Behavioural Ecology

CABE 6351 - Behavioural Ecology and Sociobiology

Engineering

ENGI 9603 - Environmental Sampling and Pollutant Analysis (*Cross listed as ENVS 6005*)
 ENGI 9605 - Advanced Waste Water Treatment
 ENGI 9622 - Environmental Statistics

Environmental Science

ENVS 6000 - Environmental Science and Technology
 ENVS 6001 - Earth and Ocean Systems
 ENVS 6002 - Environmental Chemistry and Toxicology
 ENVS 6003 - Applied Ecology
 ENVS 6007 - Environmental Risk Assessment (same as Engineering 9609)

Geography

GEOG 6250 - Conservation of Natural Resources

GEOG 6410 - Climatology

Marine Studies (Fisheries Resource Management) Program Courses

MSTM 6001 - Fisheries Ecology

MSTM 6005 - Overview of World Fisheries

MSTM 6009 - Current Issues for Sustainable Fisheries

Physics

PHYS 6316 - Ocean Data Analysis

PHYS 6320 - Ocean Turbulence and Mixing

Technology Management (Aquaculture Technology Option) Program Courses

MSTM 6056 - Management of International Development

MSTM 6071 - Management of Aquaculture Technology

MSTM 6072 - Animal Husbandry Management

MSTM 6073 - Aquaculture Environmental Management

MSTM 6074 - Aquaculture Site and Operational Assessment

MSTM 6075 - Aquaculture Engineering Technology Management

Note: Consult the Program for a list of titles and information regarding availability.

23.6 Biochemistry**Professor and Head of the Department**

P. Davis

23.6.1 Program of Study

The Degree of Master of Science is offered in Biochemistry or Food Science to full-time and part-time students.

The admission requirements for the graduate programs in Biochemistry and Food Science are as given under **Regulations Governing Master of Science Degrees**. Depending on the background and/or area of specialization, a candidate's program may include additional courses taken for credit in Biochemistry, Food Science or related subjects.

The program of a candidate for the M.Sc. Degree shall be the responsibility of the supervisory committee, composed of the Supervisor and at least two other faculty members recommended with the concurrence of the Supervisor by the Head of the Department or delegate.

It is the responsibility of the student to arrange regular meetings with his or her supervisory committee. A semi-annual report, prepared by the Supervisor and signed by all members of the supervisory committee, is required to be given to the Head of the Department or delegate.

All graduate students are expected to attend and participate in the Departmental seminars.

A student completing an M.Sc. Degree will be required to present a seminar on his/her research area. The seminar will normally take place during the last semester of the student's program.

Any deficiencies noted during the seminar should be carefully considered by the student and the supervisory committee prior to submission of the thesis for final examination.

23.6.2 Courses

A series of advanced courses in the areas outlined below will be offered. Normally only one course will be offered per semester.

6200 Current Biochemical Research Topics I

6210 Current Biochemical Research Topics II

6400 Control of Intermediary Metabolism

6410 Molecular Endocrinology

6420 DNA: The Structure and Function of Genes (Prerequisite: An introductory course in molecular biology, or its equivalent, at the senior undergraduate level, e.g., Biochemistry 4100)

6421 RNA: Structure, Function and Synthesis (Prerequisite: An introductory course in molecular biology, or its equivalent, at the senior undergraduate level, e.g., Biochemistry 4100)

6422 Regulation of Protein Synthesis (Prerequisite: An introductory course in molecular biology, or its equivalent, at the senior undergraduate level, e.g., Biochemistry 4100)

6430 Bioenergetics

6440 Membranes

6450 Proteins

6500 Enzymology

6520 Nutritional Biochemistry

6530 Food Biochemistry

6590 Molecular Biology I (cross-listed as *Biology 6590* and *Medicine 6590*) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)6591 Molecular Biology II (cross-listed as *Biology 6591* and *Medicine 6591*) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)6592 Bacterial Genetics (cross-listed as *Biology 6592*) Prerequisite: Biology 4241 or Biochemistry 4100 (or equivalent)6593 Selected Readings in Molecular Biology (cross-listed as *Biology 6593*) Prerequisites or Co-requisites: Biology 6590, 6591/ Biochemistry 6590, 6591/Medicine 6590, 6591 (or equivalent)

6600 Metabolic Toxicology

6610 Comparative Biochemistry

6620 Biochemical Adaptation

6630 Marine Biochemistry

6640 Biochemistry of Cancer

6650 Science and Technology of Seafoods

6660 Industrial Microbiology

6670 Biological Waste Treatment

6680 Processing and Quality of Foods

23.7 Biology

Associate Professor and Head of the Department

P. Marino

The Degree of Master of Science is offered in Biology and Marine Biology to full-time and part-time students. Students interested in animal behaviour should also consult the section in the Calendar describing the **Master of Science in Cognitive and Behavioural Ecology program**. In addition, a **Master of Science Degree is offered in Aquaculture**. See appropriate sections of this Calendar.

23.7.1 Biology

1. The program of a candidate shall be the responsibility of a Supervisory Committee composed of the Supervisor and at least two other appropriate members recommended to the Dean by the Head (or delegate) of the Department with the concurrence of the Supervisor.
2. The Supervisory Committee shall interview the student normally within a month of first registration, to discuss the student's program and to explore any areas of weakness in the candidate's biological knowledge, especially where these relate to the intended areas of research.
3. A student will be required to take a minimum of 6 credit hours and Biology 7000 (Graduate Core Seminar).
4. It is the function of a Supervisory Committee to have regular meetings, at least annually, with its graduate student. A meeting report, signed by all members of the Supervisory Committee and student, must be given to the Department. A copy will be sent to the graduate student and to the Dean of Graduate Studies.
5. The candidate will present a tentative outline of the proposed research to the Supervisory Committee, with a copy to the Department by the end of the second semester, and preferably prior to commencement of the research.
6. The student will present a research seminar to the Department, normally by the end of the second semester following admission, to describe the research topic being investigated and the methodologies to be employed. This seminar provides an opportunity for the student to receive constructive input from the broad biological community.
7. The candidate must present a thesis seminar of 30-40 minutes duration to the Department prior to submission of the thesis to the School of Graduate Studies. The candidate will be questioned by a panel approved by the Departmental Graduate Studies Committee, in consultation with the student's Supervisory Committee. All others in attendance will be invited to question the candidate before adjournment. Deficiencies noted at this stage should be carefully considered by the student and the Supervisory Committee prior to submission of the thesis for final examination.
Under exceptional circumstances, this requirement may be waived by the Head of the Department (or delegate).
8. Each Master's candidate shall spend at least one semester in residence as a full-time student within the Department during the program. It is recommended that this semester be at the beginning of the program.
Under exceptional circumstances, this requirement may be waived by the Head of the Department (or delegate).
9. If candidates, in the opinion of the Supervisor, Committee and Department, are not making satisfactory progress, they will be required to withdraw from the program.
10. Theses shall conform to **Theses and Reports** of the **General Regulations** of the School of Graduate Studies and to the regulations in the Departmental Guidelines.

23.7.2 Marine Biology

1. A program of study leading to a Degree of Master of Science with a specialization in Marine Biology is governed by the above regulations.
2. Students will be required to take Biology 7000 (Graduate Core Seminar) and an additional 12 credit hours. These 12 credit hours must include Biological Oceanography 7531, and at least two of 6710, 7535, 7540, 7541, 7551, 7560, and 7561. The remaining credit hours may be selected from any other Biology graduate courses or relevant graduate courses in other Departments.

23.7.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

- 6000 Research Topics in Microbiology
- 6100 Modern Problems in Botany
- 6110 Advanced Phycology
- 6120 Mycology
- 6350 Behavioural Ontogeny (*Cross-listed as Psychology 6350*)
- 6351 Behavioural Ecology and Sociobiology (*Cross-listed as Psychology 6351*)
- 6355 Field Course in Animal Behaviour (*Cross-listed as Psychology 6355*)
- 6400 Parasitic Protozoology
- 6410 Helminthology
- 6420 Parasitic Arthropods
- 6590 Molecular Biology I (*Cross-listed as Biochemistry 6590 and Medicine 6590*) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)
- 6591 Molecular Biology II (*Cross-listed as Biochemistry 6591 and Medicine 6591*) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)
- 6592 Bacterial Genetics (*Cross-listed as Biochemistry 6592*) Prerequisite: Biology 4241 or Biochemistry 4100 (or equivalent)
- 6593 Selected Readings in Molecular Biology (*Cross-listed as Biochemistry 6593*) Prerequisites or Co-requisites: Biology 6590, 6591/ Biochemistry 6590, 6591/Medicine 6590, 6591 (or equivalent)
- 6700 Biology of the Molluscs
- 6710 Marine Benthic Biology
- 6900 Entomology
- 6910 Applied Entomology
- 7000 Graduate Core Seminar
- 7101 Topics in Marine Biology
- 7110 Cellular Physiology and Cytology
- 7140 Physiology of Parasitism
- 7201 Topics in Cellular and Molecular Biology and Physiology

7210 Arctic and Subarctic Biology
 7220 Quantitative Methods in Biology
 7250 Topics in Wildlife Biology
 7270 Ecology of Newfoundland
 7300 Ornithology
 7301 Topics in Ecology and Conservation Biology
 7510 Ichthyology
 7520 Advances in Fish Biology
 7530 The Molecular Basis of Development
 7531 Biological Oceanography
 7535 Research Methods in Marine Science
 7540 Plankton Dynamics
 7541 Physiological Ecology of Phytoplankton
 7550 Fishery Biology
 7551 Fisheries Resource Management
 7560 Physiology of Marine Invertebrates
 7561 Physiology of Marine Vertebrates
 7570 Marine Benthic Biology
 7600 Effect of Organic and Inorganic Pollutants on Biological Systems
 7910 Community and Ecosystem Ecology
 7931 Research Methods in Genetic Biotechnology
 7920-7960 Special Topics in Biology (*Note: Biology 7931 may be delivered in an accelerated format outside of the regular semester timeframe*)

23.8 Chemistry

Professor and Head of the Department

P. Pickup

23.8.1 Program of Study

- The Degree of Master of Science in Chemistry is offered as full-time or part-time study.
 - Preference for admission will be given to students with a B.Sc. (Honours) Degree in Chemistry from a recognized university.
 - Students holding a B.Sc. Degree in Chemistry from a university of recognized standing with a minimum overall average of 65% and minimum average of 65% in all Chemistry courses taken after the first year will be considered for admission to the Chemistry M.Sc. program. Students not admissible under 1.a. may, on the advice of the Supervisory Committee, be required to pass qualifying exams and/or supplementary undergraduate courses with a minimum B grade.
 - Students with a first class B.Sc. in an area other than Chemistry will also be considered for admission. Students not acceptable under 1.a. or 1.b. who have a strong background in an appropriate area of specialization may, on the advice of the Supervisory Committee, be required to pass qualifying exams and/or supplementary undergraduate courses with a minimum B grade.
 - Candidates are normally required to write American Chemical Society (ACS) placement test(s) in the first two weeks of the initial semester of registration in order to determine an appropriate course program.
- Candidates will be assigned a Supervisory Committee consisting of the Supervisor and at least two other appropriate faculty members appointed by the Dean on the recommendation of the Chemistry Deputy Head (Graduate Studies).
- The program of a candidate must be arranged by the Supervisor before the second semester of registration in consultation with the Supervisory Committee and the student. It is the responsibility of the Supervisory Committee to meet at least annually with the student, to provide guidance at all stages of the candidate's program, and, in consultation with the student, to prepare written annual progress reports for submission to the Dean of Graduate Studies.
- Candidates are normally required to successfully complete Chemistry 6001 (Master's Seminar) and a minimum of 6 credit hours of graduate Chemistry courses with a minimum B grade. Additional program courses may be assigned by the Supervisory Committee.
- Candidates are required to attend Departmental seminars.
- Candidates must submit a thesis deemed acceptable to two examiners as described under **Regulations Governing Master of Science Degrees**. An oral defence is not required.

23.8.2 Courses

6001 Master's Seminar
 6004 Project Seminar
 6110 Analytical Chemistry II
 6150 Advanced Spectroscopic Techniques
 6151 Analytical Separations and Organic Mass Spectrometry
 6152 Electroanalytical Techniques
 6153 Techniques in Sampling, Trace Analysis and Chemometrics
 6154 Business Management and Good Laboratory Practice
 6155 Computers in Instrumental Analysis and Basic Electronics (same as Med 6070)
 6160 Laboratory Projects in Sampling, Electroanalysis and Trace Analysis
 6161 Laboratory Projects in Analytical Separations and Spectroscopic Techniques
 6190-9 Selected Topics in Analytical Chemistry
 6201 Bioinorganic Chemistry
 6202 Main Group Chemistry
 6204 Mechanisms in Catalysis
 6205 Photochemistry of Transition Metal Complexes
 6206 Green Chemistry
 6210 Organometallic Chemistry
 6290-9 Selected Topics in Inorganic Chemistry
 6300 Quantum Chemistry I
 6301 Quantum Chemistry II
 6302 Molecular Spectroscopy
 6304 Computational Chemistry I

6310 Electronic Structure Theory
 6323 Chemical Thermodynamics I
 6324 Chemical Thermodynamics II
 6340 Biophysical Chemistry
 6350 Electrochemical Kinetics
 6360 Solid State Chemistry
 6370 Nanoscale Phenomena
 6380 Adsorption on Surfaces
 6381 Surface and Interface Science
 6382-9 Selected Topics in Physical Chemistry
 6390-8 Selected Topics in Physical Chemistry
 6399 Chemical Kinetics and Dynamics
 6401 Organic Spectroscopic Analysis I
 6402 Organic Spectroscopic Analysis II
 6421 Natural Products Chemistry
 6460 Organic Synthesis
 6470 Physical Organic Chemistry
 6490-9 Selected Topics in Organic Chemistry
 6590-9 Selected Topics in Theoretical and Computational Chemistry
 6600 Applications of Inorganic and Organometallic Chemistry to Toxicology

23.8.3 Instrumental Analysis

1. Program of Study

- The Department of Chemistry in collaboration with other faculty in Science offers a course-based program in instrumental analysis leading to the Degree of Master of Science. The program is available on a full-time or part time basis and will normally require four semesters of study. The program is designed for students who wish to pursue career opportunities in all areas of applied science which require in-depth knowledge and laboratory expertise in analytical instrumentation.
- The program will be administered by a Program Committee consisting of the Deputy Head (Graduate Studies) who will be chair, the Program Co-ordinator (Chemistry) and a third faculty member from another science Department. The Program Committee will be responsible for overseeing that a level of standards be maintained.
- The Program Co-ordinator will be responsible for coordinating the course offerings and for soliciting student projects for the program to be approved by the Program Committee.

2. Qualifications For Admission

Admission is limited and competitive. To be considered for admission, applicants shall normally hold a Bachelor's Degree in Science (with at least a minor in Chemistry, and having completed Chemistry 4100 or equivalent) with at least a second class standing from an institution recognized by the Senate. The Program Committee will make recommendations on admission to the Dean of Graduate Studies.

3. Program Requirements

- All programs must be approved by the Program Committee and by the Dean of Graduate Studies. All **General Regulations** of the School of Graduate Studies shall apply to this Degree.
- The program requires the completion of the 24 credit hours representing the eight required program courses, one project seminar, and a project report. Normally, completion of the program will require four semesters of study.
- A project seminar will be given to the Department of Chemistry at the end of the student's program.
- Students will be required to complete a research project, the scope of which will normally require no more than two semesters of full-time effort. The Project Report shall be evaluated according to the procedures outlined in **Theses and Reports**.

4. Required Courses

6004 Project Seminar
 6150 Advanced Spectroscopic Techniques
 6151 Analytical Separations and Organic Mass Spectrometry
 6152 Electroanalytical Techniques
 6153 Techniques in Sampling, Trace Analysis and Chemometrics
 6154 Business Management and Good Laboratory Practice
 6155 Computers in Instrumental Analysis and Basic Electronics (Same as Medicine 6070)
 6160 Laboratory Projects in Sampling, Electroanalysis and Trace Analysis
 6161 Laboratory Projects in Analytical Separations and Spectroscopic Techniques

23.9 Cognitive and Behavioural Ecology

Administrative Committee

Dr. I. Fleming, Department of Ocean Sciences - Co-Chair
 Dr. C. Walsh, Department of Psychology - Co-Chair
 Dr. T. Chapman, Department of Biology
 Dr. W. Montevecchi, Department of Psychology
 Dr. C. Purchase, Department of Biology
 Mr. P. Regular, Graduate Student Representative
 Dr. A. Storey, Department of Psychology
 Dr. I. Warkentin, Grenfell Campus

23.9.1 General Information

- The Cognitive and Behavioural Ecology Program is interdisciplinary and designed to train students in research that integrates cognitive and behavioural studies at the ecological level. Molecular, developmental and evolutionary aspects of cognition and behaviour are also studied. Supervisors include faculty from the Departments of Biology, Ocean Sciences, Psychology, the Faculty of Medicine and the Environmental Science Program at Grenfell Campus, as well as adjunct faculty from the Canadian Wildlife Service, Department of Fisheries and Oceans, the Newfoundland and Labrador Forestry and Wildlife Divisions and Parks Canada. The Departments of Biology and Psychology jointly offer the Master of Science and the Doctor of Philosophy degrees in Cognitive and Behavioural Ecology.

- The Administrative Committee is responsible for the Program. Committee members are appointed by the Dean of Science, on the recommendation of the Chair of the Committee and of the Heads of Biology and Psychology. The Committee Chair is elected by the committee members and appointed by the Dean of Science. The Committee makes recommendations to the Dean of Graduate Studies concerning admissions and academic requirements. In consultation with supervisors, recommendations are made concerning course programs, financial support, thesis committees, comprehensive and thesis topics, examiners and students' annual progress. Upon program completion, the Committee certifies that all requirements for the appropriate degree have been met. The Department of the Supervisor ensures that adequate facilities are provided for each candidate. Students in the Cognitive and Behavioural Ecology Program are considered for teaching assistantships in the Psychology or Biology Departments.

23.9.2 Program of Study

- Students normally take four courses (12 credit hours) in the first year. Students will be required to take Quantitative Methods in Biology (BIOL 7220) or Advanced Statistics in Psychology (6000) unless they have already passed an equivalent graduate or Honours course, Behavioural Ecology and Sociobiology (CABE 6351), Field and Lab Methods in Animal Behaviour and Behavioural Ecology (CABE 7000) and one elective, in consultation with the Supervisor.
- Upon completion but before submission of the thesis, the student is required to give a formal thesis presentation.
- The student will be required to comply with all other regulations governing the graduate Degree of Master of Science.

Table of Credit Restrictions - Master of Science in Cognitive and Behavioural Ecology

(Credit may be obtained for only one course from each of the pairs of courses listed in this table.)

Present Course	Former Course
CABE 6240	Biopsychology 6240
CABE 6350	Biopsychology 6350
CABE 6351	Biopsychology 6351
CABE 7000	Biopsychology 7000

23.9.3 Courses

Biology 7220 Quantitative Methods in Biology
 Cognitive and Behavioural Ecology 6240 Special Topics
 Cognitive and Behavioural Ecology 6350 Behavioural Ontogeny
 Cognitive and Behavioural Ecology 6351 Behavioural Ecology and Sociobiology
 Cognitive and Behavioural Ecology 7000 Field and Lab Methods in Animal Behaviour and Behavioural Ecology
 Psychology 6000 Advanced Statistics in Psychology

23.10 Computational Science

Professor and Program Chair

M. Plumer

23.10.1 Administrative Committee

The Administrative Committee, appointed by the Dean of the School of Graduate Studies on the recommendation of the Dean of the Faculty of Science, consists of at least one representative of each participating academic unit, and one member external to the University.

23.10.2 Participating Departments and Organizations

This interdisciplinary program offers the Master of Science Degree in both Computational Science and Computational Science (Co-operative). The departments of Biochemistry, Chemistry, Computer Science, Earth Sciences, Mathematics and Statistics, Physics and Physical Oceanography and the Faculty of Engineering and Applied Science are participants in this program. Other departments and faculties may be involved, depending on the nature of the thesis or project. External organizations may provide placements for co-op students, jointly supervise students, share computing resources and participate in teaching courses.

23.10.3 Admission Criteria and Procedures

- The criteria for acceptance of an applicant are: his or her anticipated successful and timely completion of the program, and the willingness of a participating faculty member to supervise the applicant.
- Students will be expected to hold a B.Sc. (Honours) or B.Eng. Degree with honours standing, or equivalent, with a strong computational orientation. At the time of application, the student is expected to provide evidence (for example, transcripts of completed courses) of his or her knowledge of a modern computer language such as Fortran, and/or C and/or C++, and/or Matlab, and/or Python. Evidence of knowledge of differential equations; and/or linear algebra and/or computer graphics would be an asset. Students with an inadequate background may be encouraged to take certain undergraduate courses.
- Admission decisions will be made by the School of Graduate Studies on the recommendation of the Chair of the Administrative Committee.

23.10.4 Program of Study

- The goal of Computational Science is to solve technical problems, in science and engineering, using computers and computational methods. Our program is designed to educate students to apply computational, numerical and programming concepts and tools to solve and model complex problems in science and engineering.
- The Program is offered in thesis and project (non-thesis) versions, with the option of a co-operative education program. It is intended that the overall level of student effort and performance required in each version will be comparable. The normal length of time to complete each option is 24 months.
- The work for the thesis or project will be carried out under the guidance of a supervisor (or joint supervisors). The home department of the student will be the same as that of the Supervisor. Upon completion of the work for the thesis or project, to be submitted to the

School of Graduate Studies for examination, each student is required to present a seminar suitable for the interdisciplinary audience of Computational Science program students.

4. All students are required to complete a minimum of 3 core courses (9 credit hours) selected from the list of **Core Courses** listing below. All students are also recommended to complete CMSC 6940 (1 credit hour). Additional courses are required in accordance with the program options as outlined below and will normally be selected from the student's discipline of specialization. The course requirements for each student are approved by the Program Chair on the recommendation of the student's supervisor(s), and should reflect the interdisciplinary nature of the program. Students are expected to attend research seminars in their home department as well as those relevant to Computational Science, when advertised.
 - a. The thesis option requires the completion of a minimum of four graduate courses (12 credit hours) numbered 6000 or higher, which must include three courses (9 credit hours) from the **Core Courses** listing below. Equivalent courses may be considered for substitution with approval of the Program Chair. CMSC 6940 (one credit hour) is also recommended. The additional course(s) will normally be chosen from the **Additional Courses** listing below in the same discipline as the thesis work. The submission of an acceptable thesis is required. The thesis is to contain an original scholarly contribution which must be submitted to the School of Graduate Studies for final examination. Each student is also required to present a seminar on their thesis research topic that demonstrates their use of computational techniques to solve a problem in science or engineering.
 - b. The project option requires the completion of a minimum of seven graduate courses (21 credit hours) numbered 6000 or higher, which must include at least three courses (9 credit hours) from the **Core Courses** listing below. Equivalent courses may be considered for substitution with approval of the Program Chair. CMSC 6940 (one credit hour) is also recommended. An acceptable project report is also required which must be submitted to the School of Graduate Studies for final examination. The additional courses will normally be chosen from the **Additional Courses** listing below in the same discipline as the project work. The project, which will include an in-depth written report, shall require the equivalent of at least one and no more than two semesters of full time work.

23.10.5 Co-operative Education Option

1. A co-operative education option will be available. Students in this option may follow the thesis or non-thesis version of the program. It is expected to take up to 24 months to complete. Students will be asked to indicate if they wish to follow this option at the time of application.
2. Students who are accepted into the M.Sc. program may be provisionally accepted into the co-op option. During their first two semesters, such students will interview with the Co-operative Education Services Centre and with prospective work term employers. Satisfactory performance in this phase of the program will lead to confirmation of acceptance into the co-op option, and allow the student to spend two of the next three terms working in industrial or government settings. Upon completion of each work term, the student must submit an acceptable work report.
3. Following the completion of the two work terms, each student must complete any remaining course requirements and project report or thesis. Assuming that prior written authorization of the employer and the supervisory committee was obtained and submitted to the School of Graduate Studies, students may include material from the work terms in their reports or theses. For students following the non-thesis version of the program, the two work-term reports may be combined into a single, integrated report for this purpose. All other students must write a thesis on a research project which may be based on research completed during the work terms.
4. Students who are accepted into the co-op option are not guaranteed placements. In the event that a student fails to obtain two semesters of placements, but successfully completes all other requirements of the Degree, he or she will still be eligible for graduation, but without the designation of a co-op degree.

23.10.6 Courses

Core Courses

Mathematics 6210 Numerical Solutions of Differential Equations
 Computational Science 6910 Matrix Computations and Applications
 Computational Science 6920 Scientific Computing
 Computational Science 6930 Algorithms for Distributed and Shared Memory Computers
 Computer Science 6731 Topics in Numerical Methods
 Computational Science 6900-6909 Special Topics

Additional Courses

The following courses are identified as suitable for students in this program. Other courses may be permitted with the approval of the Program Chair.

Biochemistry

6420 DNA: The Structure and Function of Genes
 6421 RNA: Structure, Function and Synthesis
 6422 Regulation of Protein Synthesis
 6430 Bioenergetics
 6440 Membranes
 6450 Proteins

Chemistry

6201 Bioinorganic Chemistry
 6204 Mechanisms in Catalysis
 6205 Photochemistry of Transition Metal Complexes
 6210 Organometallic Chemistry
 6300 Quantum Chemistry I
 6301 Quantum Chemistry II
 6302 Molecular Spectroscopy
 6304 Computational Chemistry I
 6310 Electronic Structure Theory
 6323 Chemical Thermodynamics I
 6324 Chemical Thermodynamics II
 6340 Biophysical Chemistry
 6350 Electrochemical Kinetics
 6360 Solid State Chemistry
 6380 Adsorption on Surfaces
 6381 Surface and Interface Science
 6382-6389 Selected Topics in Physical Chemistry

6390-6398 Selected Topics in Physical Chemistry
 6399 Chemical Kinetics and Dynamics
 6401 Organic Spectroscopic Analysis I
 6402 Organic Spectroscopic Analysis II
 6470 Physical Organic Chemistry
 6590-6599 Selected Topics in Theoretical and Computational Chemistry
 6600 Applications of Inorganic and Organometallic Chemistry to Toxicology

Computational Science (CMSC)

601W Work Term 1
 602W Work Term 2
 6900-6909 Special Topics
 6910 Matrix Computations and Applications
 6920 Scientific Programming
 6925 Tools of the Trade for Programming High Performance Computers (2 credit hours)
 6930 Algorithms for Distributed and Shared Memory Computers
 6940 Computer Based Research Tools and Applications (1 credit hour)

Computer Science

6713 Software Engineering
 6722 Advanced Computer Architectures
 6728-6729 Special Topics in Computer Systems - Computer Networks
 6731 Topics in Numerical Methods
 6738-6739 Special Topics in Numerical Methods
 6752 Applications of Computer Graphics
 6756 Digital Image Processing

Earth Sciences

6141 Rotation of the Earth
 6142 Theory of Global Geodynamics
 6171 Advanced Exploration Seismology
 6172 Borehole Seismic
 6175 Gravity and Magnetic Methods
 6177 Mathematical Formulations of Seismic Wave Phenomena
 6918 Airborne and Borehole Electromagnetic Methods
 6994 Special Topics in Earth Sciences - Geophysical Inversion and Applications
 7110 Physics of the Solid Earth
 7120 Crustal Geophysics

Mathematics and Statistics

6102-6119 Special Topics in Applied Mathematics
 6201 Numerical Methods for Partial Differential Equations
 6210 Numerical Solution of Differential Equations (required course for Computational Science)
 6212 Numerical Methods for Initial Value Problems
 6588 Selected Topics in Statistics and Probability - Generalized Additive Models with Applications in Scientific Visualization

Physics and Physical Oceanography

6000 Condensed Matter Physics I
 6200 Nonlinear Dynamics
 6308 Ocean Dynamics I
 6309 Ocean Dynamics II
 6310 Physical Oceanography
 6316 Ocean Measurements and Data Analysis
 6317 Ocean Acoustics
 6318 Numerical Modelling
 6320 Turbulence
 6321 Coastal Oceanography
 6323 Stability Theory
 6400 Statistical Mechanics
 6402 Theory of Phase Transitions
 6800 Group Theory
 6850 Quantum Mechanics I

Engineering and Applied Science

9015 Ocean Engineering Hydrodynamics
 9052 Ice Properties and Mechanics
 9501 Finite Element Analysis
 9713 Stochastic Hydrology
 9815 Electromagnetic Propagation
 9821 Digital Signal Processing
 9826 Advanced Control Systems
 9861 High-Performance Computer Architecture
 9865 Advanced Digital Systems
 9869 Advanced Concurrent Programming
 9871 Information Theory and Coding

23.11 Computer Science

Associate Professor and Head of the Department

E. Brown

The degrees of Master of Science and Doctor of Philosophy are offered in Computer Science.

23.11.1 Admission Requirements

Admission into a Master's program in Computer Science is restricted to candidates holding at least a Bachelor degree (major in Computer Science or Computer Engineering) with a minimum average of 75% overall. When circumstances warrant, this requirement may be waived on the recommendation of the Head of the Department. Applicants should also refer to the **Qualifications for Admission** given under the **Regulations Governing the Degree of Master of Science** within the School of Graduate Studies section of the current Calendar. International applicants are strongly encouraged to submit results of the (general) Graduate Record Examination (GRE) test.

23.11.2 Programs

23.11.2.1 Option 1 - Thesis Route

1. Candidates are required to complete a minimum of 15 credit hours in graduate program courses, 9 of which must be in Computer Science (excluding COMP 601W and COMP 6999).
2. Full-time students are expected to complete their course work within their first year of studies. Part-time students are expected to complete their course work by the end of the seventh semester in program.
3. Each candidate is required to submit an acceptable thesis. The thesis project may involve a theoretical investigation and/or the development of an original, practical system. Each candidate is required to present a tentative outline of his/her proposed research to the Supervisor, with a copy to the Department Committee on Graduate Studies, by the end of his/her third semester in the program (sixth semester for part-time students). A fifteen minute oral presentation of the proposal is to be scheduled and given within four weeks of the submission date.
4. Prior to submission of a thesis, normally in the last semester of the program, candidates are required to present a seminar on the thesis topic, methods employed and research results.

23.11.2.2 Option 2 - Course/Project Route with Work Term

1. Candidates are required to complete a minimum of 24 credit hours in graduate program courses, of which at least 18 credit hours must be in Computer Science.
2. Within this credit requirement, a student must take the following courses:
COMP 6999 (Master's Project)
One course in Software Engineering (COMP 6713)
One course in Algorithms (COMP 6743 or COMP 6783)
One course in Information Systems (COMP 6742 or COMP 6751)
3. Additionally students must complete one co-operative education work term (COMP 601W). Under normal circumstances, students will undertake their work term in the Spring semester.
4. The dates for starting and finishing each work term are shown in the **University Diary**.
5. Students must successfully complete at least 12 credit hours (four courses) prior to beginning their work term.
6. Students will conduct job searches through the **Division of Co-operative Education** in cooperation with the Department of Computer Science. Students who do not wish to accept a work term job arranged by the Division shall be responsible for finding an alternative. Such jobs must be confirmed by letter from the employer and approved by the Head of Computer Science and by the Division on or before the first day of the work term. Work term jobs may be outside St. John's and possibly outside Newfoundland and Labrador.
7. Each work term placement will be supervised by the candidate's program Supervisor, the on-site Supervisor assigned by the employer and the Division of Co-operative Education Co-ordinator. The overall evaluation of the work term is the responsibility of the program Supervisor, on-site Supervisor and the Division of Co-operative Education Co-ordinator. The work term shall consist of two components:
 - a. On-the-job Student Performance as evaluated by the on-site Supervisor and the Division of Co-operative Education Co-ordinator, in consultation with the program Supervisor.
 - b. A Work Report graded by the program Supervisor in consultation with the on-site Supervisor.
8. Evaluation of the work term will result in the assignment of one of the following final grades:
 - a. Pass: Indicates that PERFORMANCE MEETS EXPECTATIONS in both the work report and work performance.
 - b. Fail: Indicates FAILING PERFORMANCE in the work report and/or the work performance. If a failing grade is assigned, the student's Masters program will be terminated.

23.11.3 Other Regulations

1. Students from either **Option 1 - Thesis Route** or **Option 2 - Course/Project Route with Work Term** may request to transfer between both options once during their studies. The transfer requires an approval from the Head of Department.
2. All candidates are expected to take an active part in seminars and other aspects of the academic life of the Department of Computer Science.
3. The Department of Computer Science Graduate Student Research Forum takes place in the Winter semester of the academic year. All M.Sc. students must present at the Research Forum at least once during their program.
4. Full-time students are expected to complete all program requirements in two years. Part-time students are expected to complete all program requirements in four years.

23.11.4 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow. Normally, students will be expected to complete their course work during the fall and winter semesters. Courses might not be offered in the spring semester.

601W Work Term
6711 Syntax and Semantics of Programming Languages
6712 Compiling Techniques
6713 Software Engineering
6714 Functional Programming
6715 Logic Programming

6716 Concurrent Programming
 6718-6719 Special Topics in Programming Languages
 6720 Distributed and Parallel Computing
 6721 Operating Systems Design
 6722 Advanced Computer Architectures
 6723 Microprocessor Systems
 6724 VLSI Design (same as Engineering 9863)
 6725 Computational Aspects of VLSI (same as Engineering 9864)
 6726 Modelling and Analysis of Computing Systems
 6727 Introduction to High Performance Computer Systems
 6728-6729 Special Topics in Computer Systems - Computer Networks
 6731 Topics in Numerical Methods
 6732 Matrix Computations
 6738-6739 Special Topics in Numerical Methods
 6741 Advanced Automata Theory
 6742 Theory of Databases
 6743 Complexity of Computational Problems
 6745 Special Topics - Advanced Computational Geometry
 6748-6749 Special Topics in Theoretical Computer Science
 6751 Database Technology and Information Retrieval
 6752 Applications of Computer Graphics
 6753 Artificial Intelligence
 6754 Post-Genomic Computational Biology
 6755 Knowledge-Based Systems
 6756 Digital Image Processing
 6758-6769 Special Topics in Computer Applications
 6770-6790 Special Topics in Computer Science (excluding 6783)
 6783 Applied Algorithms
 6999 Master's Project

23.12 Earth Sciences

Associate Professor and Head of the Department

R. Mason

The degrees of Master of Science and Doctor of Philosophy are offered in Earth Sciences (Geology) and Earth Sciences (Geophysics) by full-time and part-time study.

23.12.1 Program of Study

1. Admission into a Master's Degree program in Earth Sciences (Geology) and Earth Sciences (Geophysics) is restricted to candidates holding at least a B.Sc. Degree with second class Honours. When circumstances warrant, this requirement may be waived by the School of Graduate Studies on the recommendation of the Head of the Department.
2. Each candidate will be assigned a multi-member supervisory committee. This committee shall consist of the Supervisor and at least one other member. Within two weeks of the first registration in the M.Sc. Degree program, a candidate will meet with his/her supervisory committee. Within six months, the student and the supervisory committee will agree on a written thesis proposal outlining the objectives, methods, timetable and funding for the project, and provide the proposal (signed by the student and supervisory committee) to the Head for inclusion in the student's file.
3. A candidate for the M.Sc. Degree must complete a minimum of 6 credit hours in program courses. The courses must be selected from the overview and general courses below or with the approval of the supervisory committee and Head of the Department, other graduate level courses including those offered by other departments. Depending on background and/or area of specialization, a candidate also may be required to complete additional courses in earth sciences or related subjects.
4. All course requirements should be completed within one year from the date of first registration in the M.Sc. Degree program.
5. A candidate is required to give an oral presentation to the Department on the results of his/her research. This presentation must be given during the second year of the program.
6. The M.Sc. Degree program will conclude with a thesis examination as prescribed in the **Regulations Governing the Degree of Master of Science**.
7. The Supervisor and the Head of the Department may recommend to the Dean of Graduate Studies that a candidate who is not making satisfactory progress be required to withdraw from the program.

23.12.2 Courses

A selection of courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow.

Overview Courses

7110 Physics of the Solid Earth
 7120 Crustal Geophysics
 7300 Changes in Global Paleoenvironment
 7400 Tectonic Regimes
 7410 Engineering and Environmental Geology
 7500 Chemical Fluxes in the Earth
 7810 Paleogeology (same as the former 6810. Credit may be obtained for only one of 7810 or 6810)

General Courses

6070 Quantitative Techniques in Mineralogy and Metamorphic Petrology
 6141 Rotation of the Earth
 6142 Theory of Global Geodynamics
 6152 Paleomagnetism
 6171 Advanced Exploration Seismology
 6172 Borehole Seismic
 6175 Gravity and Magnetic Methods

6177 Mathematical Formulations of Seismic Wave Phenomena
 6210 Genesis of Mineral Deposits
 6320 Marine Geology
 6400 Flow and Transport in Fractured Rock
 6410 Advanced Engineering and Environmental Geology
 6420 Deformation Mechanisms
 6500 Stable Isotope Geochemistry
 6510 Trace Element Geochemistry
 6520 Methods in Advanced Research in Geochemistry
 6540 Radiogenic Isotope Geochemistry
 6550 Biogeochemistry
 6600 Petroleum Geology
 6740 Modern and Ancient Sedimentary Environments
 6750 Sequence Stratigraphy
 6820 Palynology and Paleobotany
 6900-6999 Special Topics in Earth Sciences

23.13 Environmental Science

(see also **Master of Environmental Science**)

Board of Studies

Dr. J. Wroblewski, Department of Ocean Sciences - Chair
 Dr. C. Campbell, Division of Science, Grenfell Campus, ex-officio
 Dr. B. Chen, Faculty of Engineering and Applied Science
 Dr. R. Chuenpagdee, Department of Geography
 Dr. P. Marino, Head, Department of Biology
 Dr. W. Montevecchi, Department of Psychology
 Dr. L. Tarasov, Department of Physics and Physical Oceanography
 Dr. S. Ziegler, Department of Earth Sciences

23.13.1 Program of Study

1. The Environmental Science Program is an interdisciplinary graduate program involving the departments of the Faculty of Science, the Faculty of Arts, the Faculty of Medicine, and the Faculty of Engineering and Applied Science. There are three Environmental Science Graduate Degree streams: the Master of Science (M.Sc., Environmental Science), Master of Environmental Science (M.Env.Sci.), and the Doctor of Philosophy (Ph.D., Environmental Science). The program is available on a full or part-time basis.
2. The program is administered by a Board of Studies appointed by the Dean of Science. Supervisors of graduate students in the program include faculty from the Faculty of Science, the Faculty of Arts, the Faculty of Engineering and Applied Science, the Faculty of Medicine, and the Environmental Science Program at the Grenfell Campus, as well as adjunct appointees to the program (as a co-supervisor).

23.13.2 Qualifications for Admission

Admission is limited and competitive. To be considered for admission applicants shall normally hold a Bachelor's (Honours) degree in Science, Geography, or Environmental Science with at least second class standing, or equivalent, or a Bachelor's degree in Engineering from an institution recognized by the Senate or shall have qualifications and/or experience in environmental science acceptable to the Dean of Graduate Studies and the Board of Studies. The Board of Studies make recommendations on admission to the Dean of Graduate Studies.

23.13.3 Degree Requirements

1. To the extent that resources permit, individual programs will be developed to suit students' interests and needs. However all programs must be approved by the Board of Studies and by the Dean of Graduate Studies. All **General Regulations** of the School of Graduate Studies shall apply to these degrees.
2. The Master of Science (Environmental Science) is a research Degree which includes a thesis and course work. The thesis research will focus on environmental topics relevant to the student's background. The course component has two aims: to broaden the student's understanding of environmental issues; and to provide further training in areas of research specialization for the thesis.
3. Each student will have a Supervisory Committee normally consisting of a Supervisor and two others. The Supervisory Committee will be appointed by the Dean of Graduate Studies on the recommendation of the Board of Studies for Environmental Science.
4. The program of each student will consist of a minimum of 12 credit hours in program courses which will include ENVE/ENVS 6000 and ENVS 6010. Of the 6 credit hours remaining in program courses, 3 credit hours will be from ENVE/ENVS 6001, 6002 and 6003 and the other 3 credit hours will be related to the student's specialty and will normally be chosen from graduate courses offered by the Faculties of Science, Arts, Medicine and Engineering and Applied Science.
5. All students will be required to submit a thesis embodying the results of systematic research on an approved topic. The thesis will be evaluated according to procedures outlined in **General Regulations, Theses and Reports**.

23.13.4 Courses

ENVE/ENVS 6000 Environmental Science and Technology
 ENVE/ENVS 6001 Earth and Ocean Systems
 ENVE/ENVS 6002 Environmental Chemistry and Toxicology
 ENVE/ENVS 6003 Applied Ecology
 ENVS 6004 Environmental Pollution and Mitigation (cross-listed as ENGI 9601)
 ENVS 6007 Environmental Risk Assessment (cross-listed as ENGI 9609)
 ENVS 6008 Air Pollution (same as ENGI 9624)
 ENVS 6009 Environmental Science Project
 ENVS 6010 Environmental Seminar
 ENVS 6201-6210 Special Topics in Environmental Science

23.14 Food Science

See **Biochemistry**.

23.15 Geography

Professor and Head of the Department

C. Mather

23.15.1 General Information

1. The degrees of Master of Arts and Master of Science are offered in Geography by full-time or part-time study.
2. Admission requirements are set forth in the **General Regulations** of the School of Graduate Studies and Degree Regulations for **Master of Arts** and **Master of Science**.
3. The deadline for submission of applications for admission is January 15. Candidates will normally commence their programs in the Fall semester.
4. An applicant will be admitted to a graduate program only if a faculty member agrees to act as Supervisor. A supervisory committee will be established after admission, normally consisting of the Supervisor and two other individuals, one of whom will normally be a member of the Department.
5. Major research areas for graduate study at the master's level are cultural, political, historical, economic, urban, resource management, community and regional development, geomorphology, Quaternary environments, climatology and geographic information sciences.
6. Candidates will register for the M.A. program if their fields of interest lie in an area of Human Geography or for the M.Sc. if their fields of interest are in Physical Geography or Geographic Information Sciences.
7. It is expected that the program of study and research for the M.A. or M.Sc. will normally be completed in a maximum of two years of full-time work, or three years of part-time work.
8. Candidates must successfully complete a minimum of 12 credit hours of graduate program courses with a minimum grade of B in each. Geography 6000 and 6001 will be required courses for all candidates who have not already completed equivalent courses at the Honours or post-graduate level.
9. Candidates whose undergraduate Degree is not in geography will normally be required to complete some additional undergraduate program courses during their first year of study, in addition to the required graduate program courses. Normally four such undergraduate courses will be required, and a minimum grade of 70% must be obtained in each.
10. Each candidate will be required to present a seminar on their research to the Department.
11. Each candidate must submit a thesis based on their own original research. This thesis will be examined in accordance with the **General Regulations** of the School of Graduate Studies.

23.15.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow:

6000 Development of Geographical Thought and Practice I
 6001 Development of Geographical Thought and Practice II
 6002 Directed Readings in Geography
 6100 Research Techniques in A Selected Field of Geography I
 6101 Research Techniques in A Selected Field of Geography II
 6120 Geospatial Modelling and Analysis
 6150 Environmental Remote Sensing and Image Analysis
 6200 Economic Geography I
 6201 Economic Geography II
 6204 Sustainable Community and Regional Development
 6250 Conservation and Sustainability of Natural Resources
 6251 Survey Design, Questionnaire Development and Techniques of Data Collection
 6300 Problems in Fisheries Geography
 6400 Fluvial Geomorphology
 6401 Glacial Geomorphology
 6402 Coastal Geomorphology
 6410 Climatology
 6420 Quaternary Geography
 6430 Biogeography
 6500 Cultural Geography
 6600 Historical Geography
 6700 Political Geography
 6800 Urban Geography
 6821 Advanced Computer Mapping
 6900 Graduate Seminar in Regional Geography
 6990-95 Special Topics in Geography

23.16 Geology

See **Earth Sciences**

23.17 Geophysics

See **Earth Sciences**

23.18 Instrumental Analysis

See **Chemistry**

23.19 Mathematics and Statistics

Professor and Head of the Department

E. Goodaire

The degrees of **Master of Applied Statistics** (see appropriate calendar entry), Master of Science and Doctor of Philosophy are offered in the Department of Mathematics and Statistics. The Masters' degrees are offered by full-time and part-time studies.

23.19.1 Specific Requirements for the M.Sc. in Mathematics

Every candidate for the M.Sc. in Mathematics is required to complete one of two options.

- Option 1:** At least 15 credit hours in graduate courses, at most 3 of which may be from seminar courses (excluding MATH 696A/B) and at least 9 of which must be in courses selected from the list below with at least 3 credit hours in three of the indicated subject areas. Remaining course selections to satisfy the total credit hour requirement for this option may be chosen from the departmental course offerings, excluding MATH 6299. A thesis is required as per **General Regulations, Theses and Reports**.
- Option 2:** At least 23 credit hours in graduate courses, including MATH 696A/B, MATH 6299 and at least 9 credit hours in courses selected from the list below with at least 3 credit hours in three of the indicated subject areas. Remaining course selections to satisfy the total credit hour requirement for this option may be chosen from the departmental course offerings, excluding those in the range 6900-6950.
 - Algebra: 6320, 6321
 - Analysis: 6310, 6311, 6312
 - Applied Mathematics: 6100, 6201 or 6212, 6120
 - Combinatorics: 6340, 6341, 6342
 - Topology: 6300 or 6301, 6332

23.19.2 Specific Requirements for the M.Sc. in Statistics

Every candidate for the M.Sc. in Statistics is required to complete STAT 6510 and STAT 6560 plus at least 12 credit hours in graduate courses. Candidates must attend the Seminar Series in Statistics (non-credit) or register for an additional 3 credit hour graduate course. A thesis is required as per **General Regulations, Theses and Reports**.

Table of Credit Restrictions for Present Mathematics Courses with Former Mathematics Courses

(Credit may be obtained for only one course from each of the pairs listed in this table.)

Present Course	Former Course	Present Course	Former Course
6323	6030	6212	6080
6321	6032	6310	6130
6322	6035	6330	6200
6340	6040	6331	6210
6341	6041	6332	6350
6342	6042	6312	6500

23.19.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

Mathematics

6100 Dynamical Systems
 6101 Modern Perturbation Theory
 6102 Mathematical Biology
 6104 Infinite Dimensional Dynamical Systems
 6110-6119 Special Topics in Applied Mathematics
 6120 Theoretical Fluid Dynamics
 6121 Functional Differential Equations
 6130 Introduction to General Relativity
 6160 Partial Differential Equations
 6201 Numerical Methods for Partial Differential Equations
 6202-6209 Special Topics in Numerical Analysis
 6210 Numerical Solution of Differential Equations
 6212 Numerical Methods for Initial Value Problems
 6299 Master's Project
 6300 Algebraic Topology I (Homology Theory)
 6301 Algebraic Topology II (Homotopy Theory)
 6302 Algebraic Topology III (Theory of Fibre Bundles)
 6304-6309 Special Topics in Topology
 6310 Functional Analysis
 6311 Complex Analysis
 6312 Measure Theory
 6313 Functional Analysis II
 6315-6319 Special Topics in Analysis
 6320 Group Theory
 6321 Ring Theory
 6322 Nonassociative Algebra
 6323 Homological Algebra
 6324-6329 Special Topics in Algebra

6330 Analytic Number Theory
 6331 Algebraic Number Theory
 6332 Point Set Topology
 6340 Graph Theory
 6341 Combinatorial Design Theory
 6342 Advanced Enumeration
 6343-6349 Special Topics in Combinatorics
 6351 Advanced Linear Algebra
 6910 Topology Seminar
 6940 Analysis Seminar
 6950 Algebra Seminar
 696A/B Graduate Seminar (2 credit hours)

Statistics

6500 Probability (*credit restricted with former 6586*)
 6503 Stochastic Processes
 6505 Survival Analysis
 6510 Mathematical Statistics
 6520 Linear Models
 6530 Generalized Linear Longitudinal Mixed Models
 6540 Time Series Analysis
 6545 Statistical Computing
 6550 Nonparametric Statistics
 6560 Continuous Multivariate Analysis
 6561 Categorical Data Analysis
 6563 Sampling Theory
 6570-6589 Selected Topics in Statistics and Probability (excluding 6586)
 6930 Statistics Seminar

23.20 Physics and Physical Oceanography

Professor and Head of the Department

J. Whitehead

Programs leading to the Degree of Master of Science in Physics and in Physical Oceanography are offered to both full and part-time students. Because Oceanography is multidisciplinary in nature, undergraduate students who plan to undertake Physical Oceanography studies are urged to consult the faculty member in charge of Physical Oceanography programs at their earliest opportunity, in order to ensure the appropriateness of their undergraduate course selections. The Degree of Doctor of Philosophy in Physics is offered through both full-time and part-time study in Atomic and Molecular Physics, Condensed Matter Physics, and Physical Oceanography. The following Departmental Regulations are supplementary to the General Regulations governing the M.Sc. and Ph.D. degrees. A thorough familiarity with the latter Regulations should be regarded as the prerequisite to further reading in this section.

The Department of Physics and Physical Oceanography compiles, and regularly reviews, a brochure which contains reasonably detailed descriptions of currently active research projects, as well as a comprehensive listing of recent research publications, and other material which may be of interest to prospective graduate students.

23.20.1 Program of Study

1. Admission to a M.Sc. program in the Department of Physics and Physical Oceanography is normally restricted to candidates holding an Honours B.Sc. Degree in Physics. However, depending on background and area of specialization and with particular reference to Physical Oceanography, other Baccalaureate degrees in science, applied science or mathematics, may be accepted.
2. A program of study for the M.Sc. Degree in Physics or Physical Oceanography shall normally include a minimum of 12 graduate credit hours. However, depending on the student's background and area of specialization, more or fewer graduate and/or undergraduate courses may be required.
3. Except with the special permission of the Department and the approval of the Dean of Graduate Studies, a candidate may not take any courses in addition to those approved for his/her M.Sc. program.
4. Before submission of the thesis to the School of Graduate Studies for examination, the student must present a seminar on the topic of his/her thesis research.

23.20.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6000 Condensed Matter Physics I
 6001 Condensed Matter Physics II
 6002 Superconductivity
 6003 Path Integral Techniques in Condensed Matter Physics
 6010-19 Special Topics in Condensed Matter Physics
 6040 Biophysics
 6060-69 Special Topics in Interdisciplinary Areas
 6200 Nonlinear Dynamics
 6308 Ocean Dynamics I
 6309 Ocean Dynamics II
 6310 Physical Oceanography
 6313 Physical Fluid Dynamics
 6314 Field Oceanography
 6315 Polar Oceanography
 6316 Ocean Measurements and Data Analysis
 6317 Ocean Acoustics
 6318 Numerical Modelling
 6319 Climate Dynamics
 6320 Turbulence

6321 Coastal Oceanography
 6322 Stratified Fluids
 6323 Stability Theory
 6324 Models in Ocean Ecology
 6360-69 (excluding 6363) Special Topics in Physical Oceanography
 6363 Laboratory Experiments in Geophysical Fluid Dynamics
 6400 Statistical Mechanics
 6402 Theory of Phase Transitions
 6403 Stochastic Processes, Time-Dependent and Non-equilibrium Statistical Mechanics
 6502 Electrodynamics
 6720 Theory of Molecules
 6721 Molecular Spectroscopy
 6722 Light Scattering Spectroscopy
 6730 Molecular Theory of Liquids and Compressed Gases
 6740 Physics of Atomic Collisions
 6760-69 Special Topics in Atomic and Molecular Physics
 6800 Group Theory
 6810-19 Special Topics in Theoretical and Mathematical Physics
 6850 Quantum Mechanics I
 6851 Quantum Mechanics II
 6900 Techniques in Experimental Condensed Matter Physics
 6910-19 Special Topics in Experimental and Applied Physics

Table of Credit Restrictions - Physics and Physical Oceanography

(Credit may be obtained for only one course from each of the pairs of courses listed in this table.)

Present Course	Former Course	Present Course	Former Course
6001	6051	6321	6303
6002	6822	6321	6304
6003	6820	6323	6303
6200	6821	6402	6401
6308	6312	6403	6401
6309	6311	6403	6824
6313	6301	6502	6500
6316	6302	6502	6501
6317	6823	6722	6790

Members of the Department carry out research in several areas of experimental and theoretical physics, including atomic and molecular physics, condensed matter physics, physical oceanography, theoretical geophysics and applied nuclear physics. In atomic and molecular physics, there are experimental programs in collision-induced infrared absorption spectroscopy, electron emission spectroscopy of simple molecules, molecular ions and free radicals, laser-induced fluorescence spectroscopy, and Raman spectroscopy, and theoretical work on atomic and molecular collisions. The work in condensed matter physics includes experimental programs in solid state nuclear magnetic resonance on systems of biophysical interest, Raman spectroscopy of lipid bilayers and membranes, studies of phase transitions using Brillouin and Raman spectroscopy, studies of instabilities and pattern formation in simple fluid dynamical systems, and spectroscopic studies of molecular crystals. Theoretical condensed matter physics research involves studies of magnetism, superconductivity, and the statistical mechanics of polymers and lipid bilayers. The physical oceanography group carries out field and laboratory research on several projects which take advantage of Newfoundland's unique oceanographic environment, using acoustic and other remote sensing techniques. These include studies of circulation on the Newfoundland and Labrador shelves, Labrador current dynamics, fjord dynamics, submarine canyons and sediment transport dynamics in the nearshore zone and on the shelf. Theoretical oceanographic studies involve the modelling of ocean circulation, gravity wave phenomena and other aspects of ocean dynamics. Research in theoretical geophysics is concentrated on whole-Earth dynamics, with special emphasis on the physics of the liquid core (the Earth's "third ocean") as inferred from its wave spectrum and the associated momentum transfer to the deformable solid parts of the Earth. In nuclear physics, research is done on the atmospheric concentrations of radioactive elements and on dosimetry for medical applications.

Note: For Geophysics, see **Earth Sciences**

23.21 Psychology

Professor and Head of the Department

I. Neath

The Degree of Master of Science is offered in Experimental Psychology. The Degree of Doctor of Philosophy is offered in Experimental Psychology. Interested students may wish to consult the sections in the Calendar describing the **Master of Applied Social Psychology (Cooperative)** and the Master of Science and Doctor of Philosophy in Cognitive and Behavioural Ecology programs.

Applications

All applicants are required to submit results from the General section of the Graduate Record Examinations.

At least one letter of reference should come from someone who is familiar with the applicant's research capability.

23.21.1 Program of Study

A candidate may be accepted into a program leading to the M.Sc. in Experimental Psychology.

Experimental Psychology

1. The areas of specialization offered are: Animal Behaviour (see **Cognitive and Behavioural Ecology Program**), Behavioural Neuroscience and Clinical, Cognitive, Developmental and Social Psychology.

- Candidates shall normally complete 15 credit hours, including: Advanced Statistics in Psychology (6000), Research Design (6001), Core Graduate Seminar in Psychology (699A/B), and 6 credit hours related to their area of specialization. Candidates will also register for the Colloquium Series in Psychology (6010) each Fall and Winter semester of their program for a maximum of four registrations.
- Every candidate shall submit an original thesis based upon an approved experimental research topic.

23.21.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6000 Advanced Statistics in Psychology
 6001 Research Design
 6010 Colloquium Series in Psychology (repeatable, non-credit)
 6100-6130 Special Topics in Experimental Psychology
 6200 Learning I
 6201 Learning II
 6203 Behavioural Pharmacology
 6210 Behavioural Analysis of Toxins
 6351 Behavioural Ecology and Sociobiology (Cross-listed as CAFE 6351)
 6400 Theory and Methods in Social Psychology
 6401 Social Cognition
 6402 Group Processes
 6403 Program Evaluation and Applied Research
 6404 Project in Applied Social Psychology (Note: This course is open only to students in the Master of Applied Social Psychology)
 6500 Developmental Psychology I
 6501 Developmental Psychology II
 6502 Developmental Changes During Old Age
 6700 Perception
 6710 Human Information Processing
 6720 Human Memory
 6800 Behavioural Neuroscience I
 6801 Behavioural Neuroscience II
 6810 Psychometrics
 6910 Personality
 699A/B Core Graduate Seminar in Psychology (3 credit hours).

24 Regulations Governing the Degree of Master of Science in Kinesiology

Associate Professor and Dean

A. Card

Professor and Associate Dean

D. Behm

The Degree of Master of Science in Kinesiology (M.Sc. (Kinesiology)) is offered to qualified full-time and part-time students by the School of Human Kinetics and Recreation. The **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland outlined in the current Calendar, and the Degree Regulations of the School of Human Kinetics and Recreation outlined below will apply to the Master of Science in Kinesiology program.

24.1 Qualifications for Admission

- The admission requirements for the Master of Science in Kinesiology are as given under the **General Regulations** of the School of Graduate Studies. Admission is limited and competitive. Preference for admission may be given to students with undergraduate degrees in relevant disciplines, with a minimum overall B average. Applications submitted through the School of Graduate Studies will be evaluated by the Graduate Studies Committee of the School of Human Kinetics and Recreation. Admission of a candidate to the program shall be made by the Dean of Graduate Studies.
- Only in exceptional circumstances, and only on the recommendation of the Dean of the School of Human Kinetics and Recreation, shall the Dean of Graduate Studies consider applicants who do not meet the requirements above.

24.2 Program and Degree Requirements

- The Degree of Master of Science in Kinesiology is offered in the areas of Exercise and Work Physiology, Biomechanics/Ergonomics, Sport Psychology, and Socio-cultural Studies of Physical Activity and Health.
- The program of a candidate for the Master of Science in Kinesiology shall be the responsibility of the Supervisory Committee, composed of the Supervisor and at least one other faculty member recommended with the concurrence of the Supervisor by the Dean of the School, or delegate.
- Candidates for the Master of Science in Kinesiology shall be required to complete a minimum of 15 credit hours plus a thesis. Either HKR 6000 or HKR 6001 is normally required for all candidates. In addition, all on-campus candidates shall be required to complete four semester-length seminar courses (HKR 6510-6513). Off-campus or part-time candidates who cannot attend the on campus seminar series can substitute 24 hours of participation in (over their two year tenure) and one presentation at national, provincial or regional conferences, workshops, professional development seminars or equivalent activities. The remaining course requirements will be selected, in agreement with the Supervisory Committee, to reflect the kinesiology areas of specializations offered with the School.
- It is the responsibility of the student to arrange regular meetings with their supervisory committee. An annual report, prepared by the Supervisor and signed by all members of the Supervisory Committee and the student, is submitted to the Dean of the School of Human Kinetics and Recreation (or delegate) as required by the School of Graduate Studies.
- Depending on the background of the candidate or his/her area of intended specialization, a candidate's program may be modified. Such modifications may include a reduction in course requirements where a student demonstrates that he or she brings graduate

level competency to their program in specific areas, or may include additional graduate or undergraduate courses, as specified by the student's Supervisory Committee. A minimum of three courses or 9 credit hours completed in the School of Human Kinetics and Recreation is mandatory.

6. A student completing a Master of Science in Kinesiology will be required to present a thesis proposal for his or her proposed thesis normally by the end of the third semester of study. The thesis proposal shall normally consist of a full written proposal (including literature review) submitted to the Supervisory Committee, a summary to be distributed to graduate students and faculty one week prior to the presentation and a formal presentation normally at the seminar series. The candidate may be questioned on his/her proposal by the Supervisory Committee and seminar audience. Any deficiencies noted during the presentation should be carefully considered by the student and the Supervisory Committee prior to proceeding with the thesis.
7. All graduate students are expected to attend and participate in the School of Human Kinetics and Recreation seminars and thesis proposal presentations.
8. In conjunction and collaboration with other Faculties and Schools of Memorial University of Newfoundland, students may pursue their special interests through electives from departments/schools outside the School of Human Kinetics and Recreation. These courses must be approved by the Graduate Studies Committee and the Dean of Graduate Studies in the preceding semester.
9. Candidates may apply for transfer course credits. All course transfers require the approval of the Dean of Graduate Studies, on the recommendation of the Dean of the School of Human Kinetics and Recreation, and are subject to General Regulation **Program Requirements, Transfer of Course Credits** of the School of Graduate Studies.

24.3 Evaluation

1. In order to continue as a candidate for a Master of Science in Kinesiology Degree, a candidate who receives a final grade of 'C' or less in a program course must repeat that course and obtain a minimum grade of 'B'. In the case of an elective course a suitable replacement course, acceptable to the Graduate Studies Committee of the School of Human Kinetics and Recreation, may be substituted for the failed course. Only one such repetition/replacement shall be permitted in the candidate's graduate program. Should a grade of lower than 'B' be obtained in the repeated course/replacement course, or any other program course, the candidate shall be required to withdraw from the program.
2. When the Graduate Studies Committee of the School of Human Kinetics and Recreation has determined, through consultation with the candidate, the instructors of graduate courses and the program advisor or thesis Supervisor that the candidate's work has fallen below satisfactory level, it may request that the Dean of the School of Human Kinetics and Recreation recommend to the Dean of Graduate Studies that the candidate's program be terminated.

24.4 Period of Study

The period of study for a graduate program shall not normally exceed seven years beyond first registration.

1. A candidate in full-time attendance may register for a maximum of 12 credit hours in any regular semester and a maximum of 6 credit hours in intersession or summer session.
2. A candidate in part-time attendance may register for a maximum of 3 credit hours in any semester, including intersession or summer session.

24.5 Thesis

The School of Graduate Studies General Regulation describes the requirements in **Theses and Reports**.

24.6 Courses

HKR 6000 Quantitative Methods in Physical Education
 HKR 6001 Qualitative Research Methods in Physical Education
 HKR 6003 Physical Education, Culture and Society
 HKR 6111 Canadian Delivery Systems in Physical Education, Recreation and Sport
 HKR 6120 Curriculum Development in Physical Education
 HKR 6121 Physical Education Leadership
 HKR 6122 Comprehensive School Health
 HKR 6123 Coaching and Long-term Athlete Development
 HKR 6124 Adapted Physical Activity for Persons with Physical and Intellectual Disabilities
 HKR 6130 Computer Applications in Physical Education
 HKR 6201 Foundations of Sport Psychology and Mental Training Techniques
 HKR 6202 Intervention and Enhancement Techniques in Mental Training Consultation
 HKR 6203 Sport Psychology Consulting
 HKR 6310 Exercise Physiology I
 HKR 6320 Exercise Physiology II
 HKR 6330 The Application and Implementation of Kinesiology Technologies
 HKR 6340 Occupational Biomechanics
 HKR 6410 Sport and Society
 HKR 6500 Introduction to Research in Physical Education
 HKR 6510-6513 Graduate Seminar Series (non-credit)
 HKR 6610-15 Individual Reading and Research in Special Areas

25 Regulations Governing the Degree of Master of Science in Medicine

Professor and Dean

J. Rourke

Professor and Interim Associate Dean

D. McKay

Associate Professor and Acting Assistant Dean

D. Gustafson

The Faculty of Medicine offers the degree of Master of Science in Medicine in eight program areas: Applied Health Services Research, Cancer and Development, Cardiovascular and Renal Sciences, Clinical Epidemiology, Community Health, Human Genetics,

Immunology and Infectious Diseases, and Neurosciences. Each program area has a Co-ordinator who is responsible for communicating the interests of the programs to the Faculty of Medicine Graduate Studies Committee and participates in the admission of graduate students into the program in Medicine. The Faculty of Medicine also offers the degree of Master of Public Health.

The Degree of Master of Science in Medicine (in all of the programs excluding the Applied Health Services Research Program) is offered in the Faculty of Medicine to full-time and part-time students. The Applied Health Services Research program is offered by full-time study only. The graduate diploma programs in Community Health and Clinical Epidemiology are offered by part-time study only.

The following regulations will apply in conjunction with the **General Regulations** of the School of Graduate Studies.

25.1 Master of Science in Medicine

25.1.1 Qualification for Admission

The admission requirements for each of the M.Sc. Program areas in Medicine are described under Programs of Study.

25.1.2 General Program Requirements

1. The program of study for the M.Sc. in Medicine Degree is the responsibility of the Supervisory Committee composed of a Supervisor and at least two other faculty members.
2. It is the responsibility of the supervisory committee to meet regularly (at least annually) with the student and to provide guidance at all stages of the candidate's program. An annual report prepared by the Supervisor and signed by the student and all members of the committee is required to be submitted to the Assistant Dean of Research and Graduate Studies (Medicine).
3. Course requirements are set by each of the program areas and are described under **Programs of Study**. In addition, all students will be required to complete GRAD 9991 (Graduate Research Integrity Program).
4. In addition to courses and research, graduate students are expected to participate in Faculty of Medicine seminars and journal clubs.
5. The M.Sc. in Medicine requires the successful completion of a research project and a written thesis.

25.1.3 Program Areas

25.1.3.1 Applied Health Services Research

The Applied Health Services Research program is jointly offered by the University of New Brunswick (UNB), Memorial University of Newfoundland (MUN), Dalhousie University (Dal), and the University of Prince Edward Island (UPEI). Students will be educated in an interdisciplinary environment and will develop a substantive understanding of: the Canadian health system, the conduct of ethical research, critical appraisal, appropriateness of research design for particular policy questions and determinants of health models. They will also gain first-hand exposure in a decision-making/policy environment and learn how to conduct research through completion of a thesis. Access to specific computer software and the Internet is required and will be the responsibility of each student.

1. Administration
 - a. An Advisory Board, consisting of the Deans of Graduate Studies, the Principals from each site, plus student representation as well as health care decision makers and stakeholders from the Atlantic Region will oversee the academic program across the Universities and ensure program integrity.
 - b. A Program Management Committee, consisting of the Principals and Site Co-ordinators from UNB, Memorial University of Newfoundland, Dal and UPEI will oversee the operation of the program.
 - c. At Memorial University of Newfoundland, the program shall be administered through the Office of Research and Graduate Studies (Faculty of Medicine) by a Principal who shall be appointed by the Dean of Graduate Studies on the recommendation of the Dean, Faculty of Medicine.
2. Qualifications for Admission
 - a. Admission is limited and competitive. To be considered for admission to the program, an applicant shall normally have a bachelor's degree with a minimum 75% average (or equivalent) from an institution recognized by the Senate. Normally, students should have completed an undergraduate course in statistics.
 - b. Students are normally admitted to the Fall semester (September). The deadline for receipt of applications is March 1. Late applications will only be considered if admissions decisions have not yet been made.
3. Program Requirements
 - a. All students will be required to successfully complete eight core courses, the Graduate Research Integrity Program, a four-month residency placement and a thesis. In addition, candidates must participate in five conference workshops each of one week duration.
 - b. Prior to submission of the thesis to the School of Graduate Studies for examination (see **General Regulation Thesis and Reports**), candidates shall present an open seminar.
 - c. Outline of program of study:

Term	Required Courses
Semester 1 Fall	Workshop 1 Theme: Orientation to first year MED 6282 MED 6284 MED 6286 Workshop 2 Theme: Research Issues and Critical Appraisal
Semester 2 Winter	MED 6288 MED 6290 MED 6292 Workshop 3 Theme: Policy and Decision Making
Semester 3 Spring	Residency Placement: All candidates are required to complete a 16-week residency placement. The residency placement is negotiated by the Principal in consultation with the student and governed by the agreements outlined in the Atlantic Regional Training Centre residency manual. Workshop 4 Theme: Orientation to second year
Semester 4 Fall	MED 6293 MED 6294 or MED 6295 Workshop 5 Theme: Communication and Dissemination
Semester 5 & 6 Winter & Spring	Thesis, including public presentation

25.1.3.2 Cancer and Development

The graduate program in Cancer and Development offers study in fundamental cell and molecular biological areas including viral oncogenesis, growth factors and oncogenes in developmental models, programmed cell death and drug resistance.

1. Qualifications for Admission

The admission requirements are as given under the **General Regulations** governing Master's degrees. All courses in the program have as a prerequisite, successful completion of an advanced, upper-level biochemistry, biology or medical course, with an emphasis on molecular biology or medicine.

2. Program Requirements

All students are required to attend, for credit, and participate in the Cancer and Development Journal Club (Cancer, Seminars, MED 6400-6403). One other graduate course (chosen from MED 6580, 6590, 6591, 6340, 6341 or 6342) is required for M.Sc. Medicine students although other courses may be required in individual cases.

25.1.3.3 Cardiovascular and Renal Science

The graduate program in Cardiovascular and Renal Sciences enables students to pursue research and academic studies in selected topics including hypertension and stroke, neural and endothelial control of vasculature and blood pressure as well as physiological mechanisms promoting heart failure. The faculty participating in the program consists of basic cardiovascular scientists and renal clinicians. Teaching within the program is integrated with the M.D. program.

1. Qualifications for Admission

The admission requirements are as given under the **General Regulations** governing Master's degrees.

2. Program Requirements

Students will be required to take a minimum of two graduate courses. Basic Cardiovascular and Renal Physiology (MED 6140) is required and must be taken within 1.5 years after entry into the program. Students will choose a second course from MED 6141, 6142, 6143, 6144 or 6194 or any other graduate course approved by the student's supervisory committee.

25.1.3.4 Clinical Epidemiology

The program in Clinical Epidemiology is aimed at university graduates intending a career in health services, faculty members seeking advanced training in clinical epidemiology, medical doctors and health care professionals interested in health care delivery research.

1. Qualifications for Admission

The admission requirements are as given under the **General Regulations** governing Master's degrees. In exceptional circumstances, a professional equivalent qualification will be considered for admission.

2. Program Requirements

- Students are required to take: MED 6262 or MED 6200, MED 6250, MED 6255 and MED 6260, plus one or more additional course(s) as recommended by the supervisory committee. In addition students are required to take the Seminar Series (MED 6400-6403).
- Students are expected to give an oral presentation of their thesis research.

25.1.3.5 Community Health

The graduate program in Community Health enables students to pursue research and academic studies in selected topics including community health, epidemiology, socio-behavioural health, biostatistics, health services utilization, health policy and health promotion.

1. Qualifications for Admission

The admission requirements are as given under the **General Regulations** governing Master's degrees. In exceptional

circumstances, a professional equivalent qualification will be considered. Students are expected to have successfully completed at least one basic university-level statistics course.

2. Program Requirements

Students are required to take three core courses: MED 6220, MED 6270 and MED 6280; 2 core stream courses: either the quantitative stream, consisting of MED 6200 and MED 6275 or the qualitative stream, consisting of MED 6294 and MED 6102; and 1 elective; and to attend, for credit, and participate in four semester-length seminar courses (MED 6400-6403).

25.1.3.6 Human Genetics

The graduate program in human genetics will enable students to pursue academic studies and research in a number of areas of genetics including cancer genetics, genetic epidemiology, gene mapping, medical genetics, birth defects and population genetics. Faculty members from all three divisions of the Faculty of Medicine (Basic Sciences, Community Health and Clinical Sciences) participate in the program.

1. Qualifications for Admission

The admission requirements are as given under the General Regulations governing Master's degrees. Applicants with backgrounds in the fields of genetics, biochemistry and biology are preferred.

2. Program Requirements

- a. Students will be required to complete a minimum of two graduate courses. Within the Human Genetics program the following courses are offered: Human Molecular Genetics (MED 6393), Human Population Genetics (MED 6390), Applied Human Genetics (MED 6392) and Selected Topics in Human Genetics (MED 6391). In addition, there are a number of courses in other graduate programs which could be suitable for some students in this program, including Epidemiology I (MED 6270), Molecular Biology of Cancer (MED 6580), Molecular Biology I (MED 6590) and Molecular Biology II (MED 6591). Course selection for each student is determined by the supervisory committee in consultation with the student and is based on the area of study and past course credits.
- b. Students are expected to participate in the activities of the genetics group. These include the weekly Journal Club/Research Discussion Group and the Genetics Seminar Series (MED 6400-6403).

25.1.3.7 Immunology and Infectious Diseases

The Immunology and Infectious Diseases group has an interdisciplinary character and consists of faculty from biomedical science oncology research. The graduate programs are designed to provide individualized training oriented towards basic research and a solid and scientific background in the discipline of immunology and infectious diseases.

1. Qualifications for Admission

The admission requirements are as given under the General Regulations governing Master's degrees. A Bachelor of Science Degree or equivalent is required.

2. Program Requirements

Students in the program are required to take three core courses: Immunology I (MED 6127), Immunology II (MED 6128), and Advanced Immunological Methods (MED 613A/B). Some students may be required to take additional courses depending upon their thesis topic. All students are required to attend, for credit, and participate in the Immunology and Infectious Diseases Seminar Series (MED 6400-6403) for a minimum of three semesters.

25.1.3.8 Neurosciences

The Neuroscience Program offers graduate studies in an interdisciplinary setting including faculty from biomedical science within the Faculty of Medicine and Department of Psychology in the Faculty of Science. Graduate students may pursue research in a number of specialty areas including the physiological basis of learning and memory, stroke and neuroplasticity, neuroregeneration, signal transduction mechanisms, neuronal circuitry and membrane physiology. The Neuroscience Program is a Chapter of the Society for Neuroscience.

1. Qualifications for Admission

The admission requirements are as given under the General Regulations governing Master's degrees. It is expected that the students will have had courses in biochemistry, biology and/or psychology with some exposure to basic university-level statistics.

2. Program Requirements

- a. Students in the program are required to take Systems Neuroscience (MED 6196) and one other graduate level course. Additional courses may be required based on the recommendation of the supervisory committee.
- b. Students are expected to attend and participate in the activities of the neuroscience group including the weekly seminar and journal club.

25.2 Graduate Diploma

The Faculty of Medicine offers a Graduate Diploma providing an opportunity for professionals and individuals within the health sector to obtain or upgrade their training in Community Health and Humanities or Clinical Epidemiology.

25.2.1 Qualifications for Admission

To be admitted to the graduate diploma program a student must be eligible to register as a graduate student, as given under the **General Regulations governing M.Sc. degrees**. In special circumstances, and upon the recommendation of the Community Health and Humanities, or Clinical Epidemiology Co-ordinator, a suitable combination of training and professional experience relevant to the program may be acceptable for admission.

25.2.2 Program Requirements

A graduate diploma in Community Health requires successful completion of MED 6220, MED 6270, 3 electives, and 2 semester-length seminar courses (MED 6400-6401).

A graduate diploma in Clinical Epidemiology requires successful completion of MED 6262 or MED 6200, 6250 and 6255 and the completion of a minimum of two of the Clinical Epidemiology seminar courses: Medicine 6400-6403 Research Seminars for M.Sc. Student I-IV.

25.2.3 Graduate Courses

6070 Seminars in Physiological Instrumentation
 6075 Human Physiology, Performance and Safety in Extreme Environments (HSPE)
 6090-6101 Special Topics
 6102 Critical Theory in Health and Society
 6103-6119 Special Topics
 6127 Immunology I
 6128 Immunology II (Prerequisite Medicine 6127)
 613A/B Advanced Immunological Methods (*same as the former 6130*)
 6131-6139 Special Topics
 6140 Basic Cardiovascular and Renal Physiology
 6141 Cardiovascular/Renal Techniques
 6142 Selected Topics in Cardiovascular and Renal Physiology
 6143 Cardiovascular Anatomy
 6144 Current Concepts in Cardiovascular and Renal Pathophysiology
 6180 Structure, Function and Pharmacology of Muscle
 6190 General Pharmacology
 6192 Pharmacology of Receptors and Receptor Effector Coupling Processes
 6193 Advanced Topics in Neuroscience
 6194 Advanced Topics in Physiology
 6195 Neurobiology of Nervous System Diseases
 6196 Systems Neuroscience
 6197 Cellular Neuroscience
 6198 Neuroanatomy for Graduate Students (accelerated format)
 6199 Health Sciences: Writing and Grantsmanship
 6200 Biostatistics I (*credit may be obtained for only one of MED 6200 or MED 6262*)
 6220 Introduction to Community Health
 6250 Basic Clinical Epidemiology
 6255 Clinical Research Design
 6260 Applied Data Analysis for Clinical Epidemiology
 6262 Biostatistics in Clinical Medicine (*credit may be obtained for only one of MED 6200 or MED 6262*)
 6265 Genetics and Clinical Epidemiology
 6270 Epidemiology I
 6274 Chronic Disease Epidemiology
 6275 Epidemiology II
 6276 Current Topics in Canada's Health Care System
 6277 Issues in Northern, Rural and Remote Health in Canada
 6278 Advanced Biostatistics for Health Research
 6279 Quantitative Methods for Applied Health Research
 6280 Community Health Research Methods
 6281 Theory and Approaches to Medical Publication
 6282 Canadian Health Care System
 6284 Research and Evaluation Design and Methods
 6286 Ethical Foundations of Applied Health Research
 6288 Policy and Decision Making
 6290 Determinants of Health: Healthy Public Policy
 6292 Qualitative and Quantitative Methods for Health Services Research
 6293 Knowledge Transfer and Research Uptake
 6294 Advanced Qualitative Methods
 6295 Advanced Quantitative Methods
 6296 Residency
 6340 Research Topics in Cancer I
 6341 Research Topics in Cancer II
 6342 Basic Principles of the Pathology of Cancer
 6390 Human Population Genetics
 6391 Selected Topics in Human Genetics
 6392 Applied Human Genetics
 6393 Human Molecular Genetics
 6394 Cancer Genetics
 6400 Research Seminars for M.Sc. Students I (one-credit hour)
 6401 Research Seminars for M.Sc. Students II (one-credit hour)
 6402 Research Seminars for M.Sc. Students III (one-credit hour)
 6403 Research Seminars for M.Sc. Students IV (one-credit hour)
 6410 Research Seminars for Ph.D. Students I (one-credit hour)
 6411 Research Seminars for Ph.D. Students II (one-credit hour)
 6412 Research Seminars for Ph.D. Students III (one-credit hour)
 6413 Research Seminars for Ph.D. Students IV (one-credit hour)
 6420 Medical Science/Social Responsibility in Health Care: Aspects of Medical History (Same as History 6125)
 6580 Molecular Biology of Cancer (Prerequisites: Biology 4241, Biochemistry 4100 [or equivalent])
 6590 Molecular Biology I - *cross-listed as Biology 6590 and Biochemistry 6590* (Prerequisites: Biology 4241, Biochemistry 4100 [or equivalent])
 6591 Molecular Biology II - *cross-listed as Biology 6591 and Biochemistry 6591* (Prerequisites: Biology 4241, Biochemistry 4100 [or equivalent])
 6900 Medical Geography I - Introduction to Geographic Information Science and Spatial Analysis in Health
 6901 Medical Geography II - Geospatial Analysis and Modelling in Health (Prerequisite: 6900)

26 Regulations Governing the Degree of Master of Science in Pharmacy

Associate Professor and Dean

L.R. Hensman

The Degree of Master of Science in Pharmacy (M.Sc. (Pharm.)) is offered to qualified full-time and part-time students by the School of Pharmacy. The **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland outlined in the current Calendar, and the Degree Regulations of the School of Pharmacy outlined below will apply to the M.Sc. (Pharm.) program. Every candidate in graduate studies shall comply with the **General Regulations**, the Degree Regulations and all additional requirements of the School of Pharmacy.

26.1 Qualifications for Admission

Admission to the M.Sc. (Pharm.) program will be offered on the basis of academic excellence. The basic requirements for admission are those established by the School of Graduate Studies of Memorial University of Newfoundland. The minimum qualification for admission is a recognized four-year undergraduate degree in Pharmacy, or a recognized four-year undergraduate degree in physical, chemical or biological science, or equivalent, with an overall B average.

Applications submitted through the School of Graduate Studies will be evaluated by the Graduate Studies Committee of the School of Pharmacy. No candidate will be admitted to the program without a recommendation of acceptance by the Graduate Studies Committee. Admission of a candidate to the M.Sc. (Pharm.) program shall be made by the Dean of Graduate Studies.

26.2 Formulation of Program of Study

Upon acceptance to the program, the Supervisor will assess the student's research interests, background, strengths and weaknesses. The Supervisor will formulate a program of study (see below) and select a supervisory committee for the student. The program of study will be selected on the basis of the thesis research, the background of the student, and the perceived need for specific graduate courses that will complement the student's working knowledge in his/her area of research. The supervisory committee will include the Supervisor, one other academic staff person from the School of Pharmacy, and one external academic staff person from Memorial University of Newfoundland. This committee will advise the student about his/her thesis research. Accordingly, they will meet with the student within two months of his/her initial registration, at the end of the second semester (8th month of study), at the end of the fourth semester (16th month), and immediately before the student begins to write the thesis. Both the program of study and the supervisory committee must be approved by the Graduate Studies Committee.

26.3 Program of Study

1. Minimum requirements for the M.Sc. (Pharm.) Degree will be the successful completion of:
 - a. Six credit hours in program graduate courses chosen from those available in Pharmacy, Medicine or Biochemistry.
 - b. Pharmacy Seminar
 - c. A thesis embodying original research

2. Graduate courses will be chosen based on the academic background of the student and the area of his/her thesis research.

Note: *Qualified students accepted into the program who are considered to have an insufficient background for their thesis research may be required to successfully complete additional courses as selected by their Supervisor.*

3. Pharmacy Seminar: All candidates for the Degree of M.Sc. (Pharm.) will be required to participate in the Pharmacy Seminar during the first two years of their program. Selected topics in pharmaceutical sciences will be presented and discussed by faculty, students and visiting speakers. Graduate students will be required to present one seminar each year. In the second year of study, the graduate student will present a progress report of his/her research in the seminar. Upon successful completion of the seminar the Chair of the Graduate Studies Committee will so notify the Dean of Graduate Studies.

26.4 M.Sc. (Pharm.) Thesis

Every candidate shall submit a thesis to the School of Graduate Studies. The thesis shall contain original research conducted by the candidate and approved by the supervisory committee.

In preparation for the thesis examination, the candidate will provide a copy of the thesis to each member of the supervisory committee. Each member of this committee will submit a written report to the Chairman of the Graduate Studies Committee.

Before the thesis is submitted, the student shall present an open seminar on the topic of investigation to the School of Pharmacy. Any serious deficiencies noticed at this stage should be carefully considered, in consultation with the supervisory committee, for revision.

Three copies of the thesis shall be submitted to the School of Graduate Studies through the School of Pharmacy, in a form and format as specified by the School of Graduate Studies.

As specified in General Regulation **Theses and Reports** of the School of Graduate Studies, the written thesis will be reviewed by examiners appointed by the Dean of Graduate Studies on the recommendation of the Dean of the School of Pharmacy or the Chairman of the Graduate Studies Committee.

26.5 Courses

Permission of the instructor and the Graduate Studies Committee of the School of Pharmacy is required for admission to any of the graduate Pharmacy courses.

- 6000 Medicinal Chemistry
- 6001 Advanced Physical Pharmacy
- 6002 Dosage Form Design and Novel Drug Delivery Systems
- 6003 Pharmacokinetic Modelling
- 6004 Principles of General Pharmacology
- 6005 Toxicology of Therapeutic Agents and Chemicals
- 6100-6104 Special Topics in Pharmacy

27 Regulations Governing the Degree of Master of Social Work

Professor and Dean

A. Al-Krenawi

The degrees of Master of Social Work and Doctor of Philosophy are offered in social work.

The Master of Social Work (M.S.W.) may be completed by part-time or full-time study. All program components, with the exception of on-campus institutes, are offered by distance format and not in a regular classroom format.

The focus of the M.S.W. program is creative approaches to critical thinking for leadership in diverse social work practice. The program allows professionally qualified social workers holding the Degree of B.S.W. or an equivalent professional undergraduate degree in Social Work to undertake intensive advanced work in a specialized area of social work knowledge and practice.

The program is designed to be accessible to students in remote and rural areas, and assumes that: (1) students will have a computer and Internet access; and (2) can travel to St. John's for the institute portion of the three practice courses. Students will be expected to incur charges for Internet services, long distance telephone charges, and travel and accommodation expenses.

Entrance into all courses and the offering of any course in an academic year is by approval of the School, consistent with the student's program. Students are admitted only into a designated program of studies.

The School of Social Work may deliver special offerings of the M.S.W. and/or other programs of the School to identified groups of out-of-province students where numbers warrant. These offerings will be self supporting, and therefore subject to an additional one-time non-refundable tuition fee as approved by the Board of Regents and payable on first registration following formal admission to the program. Students will also pay appropriate tuition fees for each semester during their tenure in the program.

Admission to the special offerings of these programs will be competitive, using the same procedures and standards that are in place for students applying to the St. John's campus program(s).

Subject to approval by the Graduate Studies Committee of the School of Social Work, students admitted to an out-of-province program offering may apply to transfer to the equivalent program on the St. John's campus. In such instances, the fee structure under which the student was admitted will not change. Subject to approval by the Graduate Studies Committee of the School of Social Work, students admitted to a St. John's based program may apply to transfer to the equivalent out-of-province program. In these instances, students transferring from the St. John's based program offerings to an equivalent out-of-province offering will be required to pay a pro-rated one-time fee upon formal transfer to the special offering.

27.1 Qualifications for Admission

1. Admission to the M.S.W. program is limited, selective, and competitive. Meeting the minimum criteria for admission does not guarantee acceptance to the program.
2. To be considered for admission, an applicant shall hold a Bachelor of Social Work (B.S.W.) degree (or an equivalent professional undergraduate degree in social work approved by the Graduate Studies Committee of the School of Social Work for recommendation to the Dean) from an institution recognized by the Senate, with at least second class standing, and an average of at least 70% in the last 60 undergraduate credit hours.
3. In addition to the stated academic requirements, the applicant must have completed, subsequent to obtaining the B.S.W. degree, at least two years employment in professional social work practice or in a comparable human service discipline or activity. Extensive relevant experience prior to undergraduate degree work may be recognized in full or partial fulfillment of this requirement.
4. For ten percent of seats per year, priority is given to applicants of First Nations/Aboriginal ancestry who meet the minimum criteria for admission. When the number of eligible applicants wishing to be considered under this clause exceeds the number of seats available, priority will normally be given to bona fide residents of Newfoundland and Labrador (see **Qualifications for Admission**). Applicants wishing to be considered under this clause shall complete the Educational Equity section of the Supplementary Information form at the time of application.
5. For an additional ten percent of seats per year, priority is given to applicants from other equity groups, based on a person's sexual orientation, gender identity, race, ethnicity, disability and/or being disadvantaged by their economic position/background and who meet the minimum criteria for admission. When the number of eligible applicants wishing to be considered under this clause exceeds the number of seats available, priority will normally be given to bona fide residents of Newfoundland and Labrador (see **Qualifications for Admission**). Applicants wishing to be considered under this clause shall complete the Educational Equity section of the Supplementary Information form at the time of application.
6. Notwithstanding the above, and in keeping with the School's commitment to achieving equitable representation in the student body, the Graduate Studies Committee of the School of Social Work, at its discretion, may give preference to additional applicants of First Nations/Aboriginal ancestry and/or members of other equity groups who meet the minimum criteria for admission.
7. Notwithstanding the above, and in keeping with the University's special obligation to educate the citizens of Newfoundland and Labrador, when the number of eligible applicants exceeds the number of seats available, priority will normally be given to bona fide residents of Newfoundland and Labrador (see **Qualifications for Admission**).
8. Applicants will be deemed bona fide residents of Newfoundland and Labrador if at the time of application they are currently residing or have a permanent address in the province.

27.2 Procedure for Admission

1. Applicants must submit an application for admission with supporting documentation to the School of Graduate Studies, which approves recommendations for admission made by the Graduate Studies Committee of the School of Social Work. The supporting documentation will consist of: an official transcript of the applicant's previous academic record submitted directly from the institution(s) attended; a statement of previous professional employment; a list of any published or unpublished works, a declaration of program emphasis and educational objectives; and two letters of appraisal, to be submitted by two referees, one assessing the applicant's previous academic performance and one assessing the applicant's previous practice performance. Letters of appraisal are to be submitted directly to the School of Graduate Studies by the referees.

Note: Independent of admission to the program, agencies providing the mandatory field internship may have a range of additional requirements such as Criminal Record Check, Child Protection Records Check, or Health Check.

2. The deadline date for receipt of applications for admission in September of each year is January 15 of the same year. All application forms and supporting documentation for admission to the program must be submitted to the School of Graduate Studies on or before the deadline of January 15. Under special circumstances, late applications and admissions in other semesters may be considered.
3. The Graduate Studies Committee of the School of Social Work may require the applicant to appear for a personal interview with one or more faculty members.

4. A person who meets the basic admission requirements under **Qualifications for Admission**, may, space permitting, take SCWK 6012 without applying for and being admitted to the M.S.W. program. Persons wishing to take a course under this provision must contact the M.S.W. Student Services Coordinator at least two months prior to the semester in which the course is scheduled. If there are available seats in the course, the applicant will need to submit to the School of Social Work the appropriate form requesting permission to register in a graduate course with evidence of B.S.W. graduation, academic transcripts, and a brief professional resume, and apply or reapply for admission to Memorial University of Newfoundland as an undergraduate.
5. A person who has completed an M.S.W. degree is eligible to register in any M.S.W. course offering, space permitting.

27.3 Plan of Study

1. A student's plan of study will be developed cooperatively by the student and the M.S.W. Student Services Coordinator.
2. Specified supplementary studies may be required to ensure requisite knowledge pertinent to the requirements for the degree.
3. A student electing a thesis program shall be assigned a Supervisor by the Dean of the School in consultation with the student. It is recommended that a thesis Supervisor be assigned as early in the program as possible. The thesis supervisor, when assigned, shall normally assume the duties of faculty advisor and Pathway mentor.
4.
 - a. Students who choose the thesis route, must complete a thesis, and a minimum of 21 credit hours consisting of SCWK 6012 (or the former 6011), 6013, 6014, 6413, 6917, and at least two of SCWK 6313, 6314, and 6315. Course route students must complete a minimum of 27 credit hours consisting of SCWK 6012 (or the former 6011), 6013, 6014, 6313, 6314, 6315, 6413, 6417 and 6917. Students in either route may be required to take additional courses.
 - b. In addition to the above, students will be required to register for SCWK 6000 during each of the relevant semesters as prescribed below, in accordance with their plan of study. This course comprises the academic mentorship component of the revised program and is designed to provide students with the opportunity to integrate curriculum with their individual academic and practice interests throughout their time in the program. For course route students, SCWK 6000 serves as a foundation for SCWK 6417. For thesis route students, SCWK 6000 serves as a foundation for their thesis.
 - i. Full-time students will register for SCWK 6000 beginning in the Fall of their first year and in each subsequent semester in which they are actively completing course work in the M.S.W. program.
 - ii. Part-time students completing the program in 6 semesters will register for SCWK 6000 beginning in the Fall of their first year and in each subsequent semester in which they are actively completing course work in the M.S.W. program.
 - iii. Part-time students completing the program in 9 semesters will register for SCWK 6000 beginning in the Fall of their second year and in each subsequent semester in which they are actively completing course work in the M.S.W. program.
 - iv. By the end of the sixth week of the first semester in which students are registered in SCWK 6000, they are required to submit a paper to their mentor, which, once agreed upon, will serve as an individual learning contract. The paper will outline: particular areas of interest, research, or study concentration; proposed goals, objectives, outcomes, and time frame; proposed list of readings; plan of study demonstrating how work in the various courses might be integrated or connected to their area of interest; and expectations of the mentor.
 Students are also required to submit a written progress report due the last day of classes of each semester, beginning with the first semester in which they are registered in SCWK 6000. Students are also required to submit a written final report summarizing their experiences and accomplishments as per the initial learning contact. This report is due the last day of classes of the final semester in which students are registered in 6000.
 - v. A grade of NC (No Grade Expected) will be awarded in all semesters of the course prior to the final Semester. The final grade in this non-credit course will be either Pas or Fal.

27.4 Field Internship SCWK 6917

Each M.S.W. student is required to complete a 500 hour field internship that is to be conducted in a setting and supervised by a qualified field instructor approved by the School of Social Work. Field Instructors must have as a minimum qualification a M.S.W. Degree and a minimum of two years post-M.S.W. social work employment.

Field internships may be offered in whole or in part outside the normal start and end dates of a semester. Part-time field internships of two semesters will require approval from the proposed agency, field instructor, and the M.S.W. Field Education Coordinator.

The M.S.W. Field Education Coordinator is responsible for facilitating appropriate matches among the student, field instructor, and field internship setting. Although consideration will be given to all factors affecting the location and type of social work field internships, final approval of field internship rests with the School of Social Work. The School cannot guarantee the availability of M.S.W. field instruction in all communities and at all times. Students are responsible for their own financial support during the field internship.

At least four months prior to the commencement of the semester in which they intend to begin SCWK 6917, all students shall submit a completed Intent to Register in M.S.W. Field Internship form and a current resume to the M.S.W. Field Education Coordinator. At least six weeks before the internship commences, students shall submit an M.S.W. Field Internship Proposal to the Coordinator. The School of Social Work depends on the cooperation of community agencies external to the University to provide field internships and instruction to its students. Many of these agencies have a range of requirements, such as Criminal Record Check, Child Protection Records Check, or Health Check, which must be completed before starting the internship. Students unable to meet the agency's requirements may be delayed in their program or prevented from completing their program of study. Students are required to complete and update these requirements in a timely fashion and at their own expense. The procedures of any given agency may change from time to time and are beyond the control of the University.

Evaluation of the field internship will be on a PAS/FAIL basis. Students who voluntarily withdraw from the field internship without prior approval of the M.S.W. Field Education Coordinator and the Graduate Officer, or who conduct themselves in such a manner as to cause the agency and the M.S.W. Field Education Coordinator to terminate the placement, will normally be awarded a grade of FAIL in the field internship.

Students who voluntarily withdraw from the field internship with the prior approval of the M.S.W. Field Education Coordinator and the Graduate Officer cannot be guaranteed a second internship during that semester. In this case, the student will be awarded a grade of INC for the field internship. The student shall normally complete a field internship the following semester.

27.5 Course Format

To increase accessibility for students in remote and rural areas, we offer courses in the following formats:

1. SCWK 6012, 6013, 6014, and 6413 will be offered by distance delivery; that is, not in a regular classroom format.
2. SCWK 6313, 6314, and 6315 are distance courses with a mandatory on-campus institute component consisting of 36 hours of classroom instruction. Course materials and activities for the pre-institute and post-institute components of the courses are provided

to students through distance format. Students must be available on a full-time basis to attend classes and complete assignments and group projects during the Institute portion of these courses. It is recommended that students take leave from their employment for the duration of an on-campus institute, which may be scheduled in a combination of weekday, evening, and weekend hours within a two week time period. The final decision regarding the on-campus institute schedule rests with the School of Social Work.

3. SCWK 6917 can be completed in St. John's, or in a student's home community, where appropriate supervision is available.
4. SCWK 6000 and 6417 can be completed in St. John's or in a student's home community.
5. In exceptional circumstances, and contingent upon student numbers and school resources, additional course sections may be offered in a regular classroom format.

27.6 Period of Study

For students admitted to the program under **Plan of Study** above:

1. For part-time students, the program is designed to permit completion of all degree requirements within three academic years (nine semesters) or two academic years (six semesters). The following is a sample program of study for nine semesters:

Fall Semester:

SCWK 6012 in Year 1;
SCWK 6000, 6313, 6315, or 6413 in Year 2;
SCWK 6000; SCWK 6313, 6315, or 6413 in Year 3

Winter Semester:

SCWK 6013 in Year 1;
SCWK 6000; SCWK 6313, 6314, or 6413 in Year 2

Spring Semester:

SCWK 6014 in Year 1; SCWK 6000; SCWK 6314 or 6315 in Year 2
SCWK 6917 (Field Internship) may be completed in Fall/Winter/Spring of Year 3
SCWK 6417 (Pathway Scholarship) is the final requirement to be completed and may be completed in the same semester as SCWK 6917 (Field Internship). Students are required to register for SCWK 6000 concurrently with SCWK 6917 and 6417.

2. For full-time students, course route, the program is designed to permit completion of all degree requirements within one academic year (three semesters), as follows:

Fall Semester:

SCWK 6000, 6012, 6013, and 6313 (institute)

Winter Semester:

SCWK 6000, 6014, 6314 (institute) and 6413

Spring Semester:

SCWK 6000, 6315 (institute), 6417 (pathway scholarship), and 6917 (field internship)

3. For full-time students, thesis route, the program is designed to permit completion of all degree requirements within one academic year (three semesters), as follows:

Fall Semester:

SCWK 6000, 6012, 6013, and 6313* (institute)

Winter Semester:

SCWK 6000, 6014, 6314* (institute), and 6413

Spring Semester:

SCWK 6000, 6315* (institute), 6917 (field internship), Thesis

* Thesis students are required to complete only two of the three institute courses.

27.7 Evaluation

1. Failure to attain a final passing grade of A or B in a program course, or PAS in a PASS/FAIL course, shall lead to termination of the student's program, unless a re-read has been requested. Failure to obtain the required grades in the re-read shall lead to termination of the student's program.
2. To remain in good standing students are required to maintain professional behaviour consistent with the current Code of Ethics of the Canadian Association of Social Workers (www.casw-acts.ca/en/what-social-work/casw-code-ethics). Students who are registered in their home province are required to comply with the current Code of Ethics of their provincial association of social workers. Students who are not registered in their home province are required to comply with the current Code of Ethics of the Canadian Association of Social Workers (www.casw-acts.ca/en/what-social-work/casw-code-ethics). Students who fail to meet this requirement will be required to withdraw from the School upon the recommendation of the Graduate Studies Committee.

27.8 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the School will allow.

Program Courses

6000 Pathway (mandatory repeatable non-credit course)

6012 Critical Thinking and Reflection (*credit may not be obtained for both 6012 and the former 6011*)

6013 Leadership for Social Justice (Prerequisite/Co-requisite 6012) (*credit may not be obtained for both 6013 and the former 6540*)

6014 Leadership in Social Policy and Programs (Prerequisite/Co-requisite 6012) (*credit may not be obtained for both 6014 and the former 6530*)

6313 Perspectives with Individuals and Families (Prerequisite/Co-requisite 6012) (*credit may not be obtained for both 6313 and the former 6312 or 6322*)

6314 Perspectives with Diverse Communities (Prerequisite 6012) (*credit may not be obtained for both 6314 and the former 6230*)

6315 Perspectives with Groups (Prerequisite 6012) (*credit may not be obtained for both 6315 and the former 6332*)

6413 Research Theory, Design, and Analysis (Prerequisite/Co-requisite 6012) (*credit may not be obtained for both 6413 and the former 6412 or 6422*)

6417 Pathway Scholarship (following completion of all other program components) (*credit may not be obtained for both 6417 and the former 6432 or 6442*)

6917 Field Internship (Prerequisites 6012; 6013; 6014; 6313; and 6413 and Prerequisite/Co-requisite 6314 and 6315) (*credit may not be obtained for both 6917 and the former 6912*)

Graduate Research Integrity Program (refer to **Graduate Research Integrity Requirement**)

Program Core Courses for Students Admitted Prior to Fall 2011

6011 Critical Thinking and Ethical Evaluation for Assessment and Intervention

6312 Crisis Intervention, Brief and Integrated Therapies for Diverse Individuals (Prerequisite/Co-requisite 6011) (*credit may not be obtained for both 6312 and 6313*)

6322 Family Therapy: Promotion of Strengths and Prevention of Violence in Diverse Families (Prerequisite 6011) (*credit may not be obtained for both 6322 and 6313*)

6332 Social Work Perspectives in Interdisciplinary Team Development and Group Therapy (Prerequisite 6011) (*credit may not be obtained for both 6332 and 6315*)

6412 Research Design for Social Work Assessment and Evaluation (Prerequisite/Co-requisite 6011) (*credit may not be obtained for both 6412 and 6413*)

6422 Data Analysis for Social Work Assessment and Evaluation (Prerequisite 6011 and 6412) (*credit may not be obtained for both 6422 and 6413*)

6432 Research Internship (2 credit hours) (Prerequisite 6011, 6412 and 6422)

6442 Colloquium Presentation Integrating Theory and Research in Advanced Clinical Practice (1 credit hour) (following completion of all other program components)

6912 Advanced Clinical Practice Internship (Prerequisites 6011, 6312, 6322 and Prerequisite/Co-requisite 6332) (*credit may not be obtained for both 6912 and 6917*)

Graduate Research Integrity Program (refer to **Graduate Research Integrity Requirement**)

Program Elective Courses for Students Admitted Prior to Fall 2011

6230 Seminar in Community Development (*credit may not be obtained for both 6230 and 6314*)

6530 Seminar in Social Administration: Evaluation of Policies and Programs (*credit may not be obtained for both 6530 and 6014*)

6540 Supervision in Professional and Clinical Practice (*credit may not be obtained for both 6540 and 6013*)

6550 Feminist Therapy in Social Work Practice

Although the School does not currently offer a program in Social Policy and Administration, it has faculty expertise in these areas and, in the future, may offer the following courses:

6210 Seminar in Social Planning and Social Development

6220 Seminar in Organization Development

6510 Seminar in Social Administration: Social Policy Analysis, Development and Administration

6520 Seminar in Social Administration: Program Design and Development

6820-29 Individual Reading and Research in Special Areas

Thesis

See **General Regulations, Theses and Reports.**

Note: Every candidate shall comply with the **General Regulations** governing the School of Graduate Studies and the M.S.W. Degree Regulations.

28 Regulations Governing the Degree of Master of Technology Management

Vice-President (Marine Institute)

G. Blackwood

Academic Director

C. Coronado

28.1 Administration

The Program will be administered by an Academic Director appointed by the Vice-President (Marine Institute), together with an Academic Advisory Committee.

An Academic Advisory Committee will be appointed by the Dean of Graduate Studies on recommendation of the Vice-President (Marine Institute). This committee will consist of the Academic Director as Chair, three members from the Marine Institute and one member from each of the Faculty of Business Administration and the Faculty of Engineering and Applied Science. Normally, all appointments will be for a period of three (3) years.

A Technical Advisory Committee consisting of a cross-section of members with professional expertise related to the technology sector, will provide regular feedback on program content, instruction, and future direction of the Program. Members of this Committee will be appointed by the Dean of Graduate Studies on recommendation of the Vice-President (Marine Institute). The Academic Director will be an ex officio member and Chair of the Technical Advisory Committee. Normally all appointments will be for a period of three (3) years.

28.2 Program

The Master of Technology Management (MTM) is a comprehensive academic program that provides a broad understanding of the structure and operation of organizations and the factors that influence business decisions in the context of technology-based organizations. It provides a technology management focus through the development of knowledge and understanding of the nature of technical operations and the factors that have an impact on their success, as well as the ability to apply these concepts within their organizations.

The program consists of two Options:

- Engineering and Applied Science Technology Option
- Aquaculture Technology Option

The program is offered online and requires successful completion of either (i) 24 credit hours of course work and a comprehensive project and report (6 credit hours), or (ii) 30 credit hours of comprehensive course work. Candidates will typically register on a part-time basis, but any who register for full-time study will normally complete the program in one academic year.

28.2.1 Admission Requirements

Admission to the program is on a competitive basis.

1. The deadlines for submission of applications are as follows:
 - Fall (September) semester: June 15

- Winter (January) semester: October 15
- Spring (May) semester: February 15

Applications received after listed deadlines will be considered as time and resources permit.

- To be considered for admission to the Engineering and Applied Science Technology Option an applicant will normally possess a second class or better undergraduate degree from a university of recognized standing and will normally have:
 - a Memorial University of Newfoundland Bachelor of Technology, Bachelor of Maritime Studies, or a comparable undergraduate degree with appropriate technology sector and business management course work; and
 - a minimum of two (2) years relevant employment experience.
- To be considered for admission to the Aquaculture Technology Option an applicant will normally possess a second class or better undergraduate degree from a university of recognized standing and will normally have:
 - a post-graduate aquaculture credential or an aquaculture focus in their undergraduate degree; or significant professional experience in the aquaculture industry; and
 - a minimum of two (2) years relevant employment experience.
- Upon acceptance into the program, students will be admitted to one of the two Options: the Engineering and Applied Science Technology Option or the Aquaculture Technology Option.

28.2.2 Program of Study

28.2.2.1 Master of Technology Management - Engineering and Applied Science Technology Option

- Candidates for the Master of Technology Management (Engineering and Applied Science Technology Option) shall be required to complete a minimum of either:
 - 24 credit hours of course work and a major project and report (6 credit hours). Course work includes two compulsory core courses (6 credit hours); and six elective courses (18 credit hours). Students on the project route will complete MSTM 6100: Project in Engineering and Applied Science Technology Management (6 credit hours).
 - Core Courses (Two to be completed):**
MSTM 6031 Overview of Technical Operations
MSTM 6032 Managing Technological Innovation
 - Elective courses (Six to be completed):**
MSTM 6022 Communication and Conflict Resolution in a Technical Environment
MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
MSTM 6030 Principles of Management for Engineering Technology Enterprises
MSTM 6033 Quality Systems
MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
MSTM 6035 Information Technology Applications in the Health and Engineering Technology Environments
MSTM 6036 Supply Chain Management and Advanced Engineering Technology Operations
MSTM 6037 Risk Analysis and Operations in the Engineering Technology Sector
MSTM 6038 Manufacturing and Engineering Technology Management
MSTM 6039 Sustainability and Environmental Responsibility
MSTM 6052 Management of Intellectual Property
MSTM 6054 Technology Assessment
MSTM 6056 Management of International Development

Project in Engineering and Applied Science Technology Management
MSTM 6100 Project in Engineering and Applied Science Technology Management (6 credit hours). Students will choose a topic in consultation with the Academic Director and will work independently to carry out an in-depth study of a problem or application within the area of technology management and fully document and present their findings. Preferably the problem will be directly related to a workplace situation.
 - 30 credit hours on a comprehensive-course route. Course work includes two compulsory core courses (6 credit hours); and eight elective courses (24 credit hours).
 - Core Courses (Two to be completed):**
MSTM 6031 Overview of Technical Operations
MSTM 6032 Managing Technological Innovation
 - Elective Courses (Eight to be completed):**
MSTM 6022 Communication and Conflict Resolution in a Technical Environment
MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
MSTM 6030 Principles of Management for Engineering Technology Enterprises
MSTM 6033 Quality Systems
MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
MSTM 6035 Information Technology Applications in the Health and Engineering Technology Environments
MSTM 6036 Supply Chain Management and Advanced Engineering Technology Operations
MSTM 6037 Risk Analysis and Operations in the Engineering Technology Sector
MSTM 6038 Manufacturing and Engineering Technology Management
MSTM 6039 Sustainability and Environmental Responsibility
MSTM 6052 Management of Intellectual Property
MSTM 6054 Technology Assessment
MSTM 6056 Management of International Development
- Up to three relevant elective courses (9 credit hours) may be transferred from other graduate programs within the School of Graduate Studies or from other post-secondary institutions recognized by Senate, subject to the approval of the Dean of Graduate Studies on the recommendation of the Academic Director.

28.2.2.2 Master of Technology Management - Aquaculture Technology Option

- Candidates for the Master of Technology Management (Aquaculture Technology Option) shall be required to complete a minimum of either:
 - 24 credit hours of course work and a major project and report (6 credit hours). Course work includes two compulsory core courses (6 credit hours); and six elective courses (18 credit hours). Students on the project route will complete MSTM 6102:

Project in Aquaculture Technology Management (6 credit hours).

i. **Core Courses (Two to be completed):**

MSTM 6031 Overview of Technical Operations
MSTM 6032 Managing Technological Innovation

ii. **Elective Courses (six to be completed including at least three from Category B):**

Category A

MSTM 6022 Communication and Conflict Resolution in a Technical Environment
MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
MSTM 6033 Quality Systems
MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
MSTM 6037 Risk Analysis and Operations in the Engineering Technology Sector
MSTM 6039 Sustainability and Environmental Responsibility
MSTM 6052 Management of Intellectual Property
MSTM 6056 Management of International Development

Category B

MSTM 6071 Management of Aquaculture Technology
MSTM 6072 Animal Husbandry Management
MSTM 6073 Aquaculture Environmental Management
MSTM 6074 Aquaculture Site and Operational Assessment
MSTM 6075 Aquaculture Engineering Technology Management

Project in Aquaculture Technology Management

MSTM 6102 Project in Aquaculture Technology Management (6 credit hours). Students will choose a topic in consultation with the Academic Director or designate and will work independently to carry out an in-depth study of a problem or application within the area of aquaculture technology management and fully document and present their findings. Preferably the problem will be directly related to a workplace situation.

- b. 30 credit hours on a comprehensive-course route. Course work includes two compulsory core courses (6 credit hours); and eight elective courses (24 credit hours).

i. **Core Courses (Two to be completed):**

MSTM 6031 Overview of Technical Operations
MSTM 6032 Managing Technological Innovation

ii. **Elective courses (Eight to be completed including at least three from Category B):**

Category A

MSTM 6022 Communication and Conflict Resolution in a Technical Environment
MSTM 6023 Strategic Planning, Policy, Participation and Management in Technical Operations
MSTM 6033 Quality Systems
MSTM 6034 Project Management in the Offshore, Health, Fisheries and Engineering Technology Environments
MSTM 6037 Risk Analysis and Operations in the Engineering Technology Sector
MSTM 6039 Sustainability and Environmental Responsibility
MSTM 6052 Management of Intellectual Property
MSTM 6056 Management of International Development

Category B

MSTM 6071 Management of Aquaculture Technology
MSTM 6072 Animal Husbandry Management
MSTM 6073 Aquaculture Environmental Management
MSTM 6074 Aquaculture Site and Operational Assessment
MSTM 6075 Aquaculture Engineering Technology Management

2. Up to three relevant elective courses (9 credit hours) may be transferred from other graduate programs within the School of Graduate Studies or from other post-secondary institutions recognized by Senate, subject to the approval of the Dean of Graduate Studies on the recommendation of the Academic Director.

28.2.3 Evaluation

1. Candidates for the Master of Technology Management Degree must obtain a grade of B or better in all program courses.
2. Candidates who receive a grade of less than B in any course will be permitted to remain in the program provided the course is repeated and passed with a grade of B or better. Alternatively, the candidate may, on the recommendation of the Academic Director, and with the approval of the Dean of Graduate Studies, substitute another graduate course. Only one course repetition or substitution will be permitted during the candidate's program after which the candidate shall be required to withdraw from the program.

29 Regulations Governing the Degree of Doctor of Philosophy

In this and following regulations and notes, "Head" and "Department" shall be understood to mean "Dean or Director" and "Faculty or School" respectively, applying the regulations to a Faculty or School in which there are no Departmental divisions.

Students should consult the General Information and Regulations Governing All Graduate Students for information concerning the Degree of Doctor of Philosophy. For information concerning the number of courses required for specific programs, students should consult the following listing for the appropriate Department.

The degree of Doctor of Philosophy (Ph.D.) is offered in selected areas in Anthropology, Archaeology, Atomic and Molecular Physics, Biochemistry, Biology, Chemistry, Cognitive and Behavioural Ecology, Computer Science, Condensed Matter Physics, Earth Sciences (Geology), Earth Sciences (Geophysics), Education, Engineering, English Language and Literature, Environmental Science, Ethnomusicology, Experimental Psychology, Folklore, Food Science, Geography, History, Interdisciplinary, Linguistics, Management, Marine Biology, Mathematics, Medicine, Pharmacy, Physical Oceanography, Social Work, Sociology, Statistics and Theoretical Physics.

29.1 Anthropology

Associate Professor and Head of the Department

M. Tate

29.1.1 Program of Study

1. The Ph.D. in Anthropology is offered in historic anthropology and ethnography of Newfoundland and Labrador, and Western Europe.
2. An applicant must normally hold a Master's Degree with a specialization in social and cultural anthropology. In exceptional circumstances, a student who has spent three semesters in the M.A. program may be recommended for transfer into the Ph.D. stream.
3. Residency: the Department requires a minimum residency of two years for Ph.D. students.
4. A supervisory committee will be established for each student as per **General Regulations, Supervision, Ph.D. and Psy.D. Candidates**.
5. Students will normally be required to successfully complete two courses during their first three semesters in the program: Anthropology 6300 and 6890. The supervisory committee may require the candidates to complete additional graduate courses.
6. All candidates must demonstrate a reading knowledge of a second language to be determined in consultation with the supervisory committee. This language will normally be a language in which there is a substantial body of literature in Social and Cultural Anthropology. It could also be a field language pertinent to the candidate's project. The exam will be set and marked by an authority determined by the Head of the Department and the Dean of Graduate Studies as per **General Regulations, Evaluation, Evaluation of Graduate Students**, 4., and will normally be completed before the Comprehensive Examination is undertaken.
7. The Ph.D. Comprehensive Examination shall be administered in accordance with **General Regulations, Comprehensive Examinations**. The examination may be oral, written or both, and shall consist normally of three sessions, each of up to three hours duration, within a one week period, or three (3) one week take home examinations. Candidates will prepare for these examinations by undertaking supervised readings in three fields prescribed by the three members of the comprehensive exam committee. The examination will deal with specified areas of social/cultural anthropology. The examination will normally be scheduled in the third week of November each year in the second year of the candidate's program.
8. The candidate must submit a written thesis proposal for presentation to the Department two months following completion of his/her comprehensive examination.
9. As stated in the **General Regulations** for Graduate Studies, the time limit for completion of the Degree is 7 years.
10. Submission of dissertation and the oral defence of dissertation will follow **General Regulations, Theses and Reports, Evaluation of Ph.D. and Psy.D. Theses**.

29.1.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

6010 Cultural Ecology
 6071 Health and Illness: Cultural Contexts and Constructions
 6081 Anthropology of Gender
 6089 Anthropology of Underclass Life
 6100 Social Organization
 6110 Culture and Personality
 6140 The Community
 6210 Language and Culture
 6240 Atlantic Regional Studies
 6260 Social and Economic Development
 6280 Newfoundland Ethnography
 6281 Labrador Ethnography
 6282 Ethnography of a Single Region
 6300 Fieldwork and Interpretation of Culture
 6400 Current Themes in Cultural Anthropology
 6410 History of Anthropology
 6412 Anthropological Theory
 6413 Applied Anthropology
 6430 Audiovisual Anthropology
 6440 Master's Research Paper (9 credit hours)
 6580-6599 Special Areas in Anthropology
 6600 Contemporary Debates in Anthropology
 6890 Graduate Seminar

29.2 Archaeology

Professor and Interim Head of the Department

S. Brown

29.2.1 Program of Study

1. The Ph.D. in Archaeology is offered in prehistoric and historic archaeology of Northeastern North America and the Arctic.
2. An applicant must normally hold a Master's Degree with a specialization in archaeology.
3. The Department requires a minimum residency of six semesters for Ph.D. students.
4. A supervisory committee will be established for each student as per **General Regulations, Supervision, Ph.D. and Psy.D. Candidates**, 2.
5. Students will normally be required to successfully complete two courses during their first three semesters in the program: Archaeology 6700 and 6411. The supervisory committee may require the candidates to complete additional graduate courses.
6. All candidates must demonstrate a reading knowledge of a second language to be determined in consultation with the supervisory committee. This language will normally be a language in which there is a substantial body of literature in Archaeology. The exam will be set and marked by an authority determined by the Head of the Department and the Dean of Graduate Studies (see **General Regulations, Evaluation, Evaluation of Graduate Students**, 4.) and will normally be completed before the Comprehensive Examination is undertaken.
7. The Ph.D. Comprehensive Examination shall be administered in accordance with **General Regulations, Comprehensive Examinations**. The examination may be oral, written or both, and shall consist normally of three sessions, each of up to three hours

duration, within a one week period, or three (3) one week take home examinations. Candidates will prepare for these examinations by undertaking supervised readings in three fields prescribed by the three members of the comprehensive exam committee. The examination will deal with specified areas of archaeology. The examination will normally be scheduled in the third week of November each year in the second year of the candidate's program.

8. The candidate must submit a written thesis proposal for presentation to the Department two months following completion of his/her comprehensive examination.
9. As stated in the **General Regulations** for Graduate Studies, the time limit for completion of the Degree is 7 years.
10. Submission of dissertation and the oral defence of dissertation will follow **General Regulations, Theses and Reports, Evaluation of Ph.D. and Psy.D. Theses.**

29.2.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6020 Bioarchaeology
 6040 Human Osteology
 6095 Advanced Studies in Ethnohistory (same as History 6095)
 6151 Palaeoethnobotany
 6181 Palaeoeskimo Cultures of the Eastern Arctic
 6182 Advances in Material Culture Analysis
 6187 Readings in Maritime Provinces Prehistory
 6189 Palaeopathology
 6191 Approaches to Early Modern Material Culture
 6192 Conservation Method and Theory
 6290 Newfoundland and Labrador Prehistory
 6310 Economic Analyses in Archaeology
 6320 Ethnoarchaeology
 6330 Archaeological Field Conservation
 6409 History of Archaeology
 6411 Theory and Method in the Study of Archaeology and Prehistory
 6500 Special Topics in Historical Archaeology (Prerequisite 6191)
 6680-6699 Special Topics in Archaeology and Prehistory
 6700 Interpretative Methods in Archaeology
 6701 Interpretative Methods in Historical Archaeology
 6890 Graduate Seminar

29.3 Biochemistry

Professor and Head of the Department

P. Davis

29.3.1 Program of Study

1. The Degree of Doctor of Philosophy is offered in Biochemistry or Food Science to full-time and part-time students.
2. The admission requirements for the graduate programs in Biochemistry and Food Science are as given under **General Regulations**. Depending on the background and/or area of specialization, a candidate's program may include additional courses taken for credit in Biochemistry, Food Science or related subjects.
3. The program of a candidate for the Ph.D. Degree shall be the responsibility of the supervisory committee, composed of the Supervisor and at least two other faculty members recommended with the concurrence of the Supervisor by the Head.
4. It is the responsibility of the student to arrange regular meetings with his or her graduate supervisory committee. A semi-annual report, prepared by the Supervisor and signed by all members of the supervisory committee, is required to be given to the Head of the Department or delegate.
5. All candidates for the Ph.D. Degree shall be required to attend and participate in Departmental seminars.
6. A candidate for the Ph.D. will be required to present a seminar on his/her research area within 18 months of starting the program and again immediately prior to the submission of thesis.

Additional Regulations for Each Program

Biochemistry (Additional)

7. A candidate for the Ph.D. in Biochemistry shall normally take the Comprehensive Examination within the first seven semesters of his or her program. The examination will have two components: the preparation of a grant proposal on a topic related to the student's research specialization followed by an oral examination of the proposal. Failure of this examination will result in the termination of the candidate's program.

Food Science (Additional)

8. A candidate for the Ph.D. Degree in Food Science shall be required to take the comprehensive examination normally within three semesters of his/her enrolment in the doctoral program and under no circumstances later than six semesters. The examination shall consist of two parts:
 - a. A written examination covering the following areas of food science.
 - Food Chemistry
 - Food Processing
 - Food Microbiology and Biotechnology
 - Biochemical and Food Engineering
 - Food Analysis
 - Nutrition Fundamentals
 - b. The candidate shall be required to defend orally an assigned research topic that may be related to his/her area of concentration. The candidate shall be required to provide a written submission of the research topic to the examination committee at least three weeks before the date of the oral examination. The comprehensive examination committee shall examine the candidate orally on any or all aspect(s) of the research topic and the written examination.

- c. In order to pass the comprehensive examination, the candidate is required to pass both the written and oral segments.

29.3.2 Courses

A series of advanced courses in the areas outlined below will be offered. Normally only one course will be offered per semester.

- 6200 Current Biochemical Research Topics I
 6210 Current Biochemical Research Topics II
 6400 Control of Intermediary Metabolism
 6410 Molecular Endocrinology
 6420 DNA: The Structure and Function of Genes (Prerequisite: An introductory course in molecular biology, or its equivalent, at the senior undergraduate level, e.g., Biochemistry 4100)
 6421 RNA: Structure, Function and Synthesis (Prerequisite: An introductory course in molecular biology, or its equivalent, at the senior undergraduate level, e.g., Biochemistry 4100)
 6422 Regulation of Protein Synthesis (Prerequisite: An introductory course in molecular biology, or its equivalent, at the senior undergraduate level, e.g., Biochemistry 4100)
 6430 Bioenergetics
 6440 Membranes
 6450 Proteins
 6500 Enzymology
 6520 Nutritional Biochemistry
 6530 Food Biochemistry
 6590 Molecular Biology I (cross-listed as Biology 6590 and Medicine 6590) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)
 6591 Molecular Biology II (cross-listed as Biology 6591 and Medicine 6591) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)
 6592 Bacterial Genetics (cross-listed as Biology 6592) Prerequisite: Biology 4241 or Biochemistry 4100 (or equivalent)
 6593 Selected Readings in Molecular Biology (cross-listed as Biology 6593) Prerequisites or Co-requisites: Biology 6590, 6591/ Biochemistry 6590, 6591/Medicine 6590, 6591 (or equivalent)
 6600 Metabolic Toxicology
 6610 Comparative Biochemistry
 6620 Biochemical Adaptation
 6630 Marine Biochemistry
 6640 Biochemistry of Cancer
 6650 Science and Technology of Seafoods
 6660 Industrial Microbiology
 6670 Biological Waste Treatment
 6680 Processing and Quality of Foods

29.4 Biology

Associate Professor and Head of the Department

P. Marino

The Degree of Doctor of Philosophy is offered in Biology to full-time and part-time students in Biology and Marine Biology. Students interested in animal behaviour should also consult the section in the Calendar describing the Doctoral programs **Cognitive and Behavioural Ecology**.

29.4.1 Program of Study - Biology

1. A student will be required to take Biology 7000 (Graduate Core Seminar).
2. Admission to a Ph.D. program in Biology shall not normally take place until after the completion of the course requirements and the submission of the thesis for the M.Sc. Degree. However, on the recommendation of the Department, this requirement may be waived by the Dean of Graduate Studies.
3. The program of a candidate shall be the responsibility of a Supervisory Committee composed of the Supervisor and at least two other appropriate members recommended to the Dean by the Head (or delegate) of the Department with the concurrence of the Supervisor.
4. The Supervisory Committee shall interview the student normally within a month of first registration, to discuss the student's program and to explore any areas of weakness in the candidate's biological knowledge, especially where these relate to the intended areas of research. The Supervisory Committee will recommend a student's subdiscipline within Biology to the Department in writing after this meeting.
5. It is the function of a Supervisory Committee to have regular meetings, at least annually, with its graduate student. A meeting report, signed by all members of the Supervisory Committee and student, must be given to the Department. A copy will be sent to the graduate student and to the Dean of Graduate Studies.
6. The candidate will present a tentative outline of the proposed research to the Supervisory Committee, with a copy to the Department by the end of the second semester, and preferably prior to commencement of the research.
7. The student will present a research seminar to the Department, normally by the end of the second semester following admission, to describe the research topic being investigated and the methodologies to be employed. This seminar provides an opportunity for the student to receive constructive input from the broad biological community.
8. When the Supervisory Committee deems it necessary, a working knowledge of a language other than English may be required.
9. Comprehensive Examination
 - a. Timing of Examination
 - i. Timing of the comprehensive examination shall follow General Regulation, 1. under **Comprehensive Examination, Ph.D. Comprehensive Examination** governing the Degree of Doctor of Philosophy. A candidate registered in a full-time Ph.D. program in the Faculty of Science, Department of Biology shall normally take the comprehensive examination during the first year of the program, and no later than one year after completion of the prescribed courses.
 - ii. The procedure shall be initiated by the candidate's Supervisor who will notify the Department of Biology, in writing, of the candidate's readiness. Failure to meet the above requirement can result in the candidate being required to withdraw from the program.

b. Examination Committee

The Examination Committee shall be appointed by the Dean of Graduate Studies on the recommendation of the Department of Biology according to Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination**, 2. of the **General Regulations** of the School of Graduate Studies. No more than two members of the Examination Committee may be members of the candidate's Supervisory Committee. The committee shall meet and recommend to the Department in writing an examination seminar topic within the student's previously determined subdiscipline.

c. Examination Procedure

The Department shall provide the student the examination date and the seminar topic in writing not more than six nor less than four weeks prior to the examination. The student shall provide each member of the Examination Committee a written paper on the seminar topic one week prior to the examination. The Examination Committee shall evaluate the candidate's presentation and response to questions put to him/her during the Oral Examination both on the seminar and within the student's subdiscipline of Biology.

d. Subsequent Action

The Examination Committee will meet in camera to arrive at its conclusions. The Chair shall report the results of the Examination to the Head and the Dean of Graduate Studies for transmission to the candidate. The report will include one of the following decisions: a) the student passed with distinction, passed or failed. b) if failed and it is the first examination whether the student may be re-examined.

e. Re-examination

Comprehensive Re-examination if permitted will occur not sooner than one month and not more than six months after the first. The candidate and his or her Supervisory Committee shall be informed of the deficiencies found. The format for the second examination will be determined by the Examination Committee with the approval of the Biology Graduate Studies Committee. The candidate will be informed of the topic and format four to six weeks prior to the examination. The examination will follow the procedure outlined in 8.c and d above. A failure will require the student to withdraw from the program.

10. Theses shall conform to **Theses and Reports** of the **General Regulations** of the School of Graduate Studies and the Departmental Guidelines.

29.4.2 Program of Study - Marine Biology

1. A program of study leading to a Doctor of Philosophy with a specialization in Marine Biology is governed by the above regulations.
2. To be considered for admission, applicants must have a background equivalent to that provided by the M.Sc. specialization in Marine Biology.
3. A student will be required to take Biology 7000 (Graduate Core Seminar) and 6 credit hours in Biology courses from the following group 6710, 7531, 7535, 7540, 7541, 7551, 7560, and 7561.
4. Depending on the student's area of research and background additional courses may be required.

29.4.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

- 6000 Research Topics in Microbiology
- 6100 Modern Problems in Botany
- 6110 Advanced Phycology
- 6120 Mycology
- 6350 Behavioural Ontogeny (Cross-listed as Psychology 6350)
- 6351 Behavioural Ecology and Sociobiology (Cross-listed as Psychology 6351)
- 6355 Field Course in Animal Behaviour (Cross-listed as Psychology 6355)
- 6400 Parasitic Protozoology
- 6410 Helminthology
- 6420 Parasitic Arthropods
- 6590 Molecular Biology I (Cross-listed as Biochemistry 6590 and Medicine 6590) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)
- 6591 Molecular Biology II (Cross-listed as Biochemistry 6591 and Medicine 6591) Prerequisites: Biology 4241, Biochemistry 4100 (or equivalent)
- 6592 Bacterial Genetics (Cross-listed as Biochemistry 6592) Prerequisite: Biology 4241 or Biochemistry 4100 (or equivalent)
- 6593 Selected Readings in Molecular Biology (Cross-listed as Biochemistry 6593) Prerequisites or Co-requisites: Biology 6590, 6591/ Biochemistry 6590, 6591/Medicine 6590, 6591, (or equivalent)
- 6700 Biology of the Molluscs
- 6710 Marine Benthic Biology
- 6900 Entomology
- 6910 Applied Entomology
- 7000 Graduate Core Seminar
- 7101 Topics in Marine Biology
- 7110 Cellular Physiology and Cytology
- 7140 Physiology of Parasitism
- 7201 Topics in Cellular and Molecular Biology and Physiology
- 7210 Arctic and Subarctic Biology
- 7220 Quantitative Methods in Biology
- 7250 Topics in Wildlife Biology
- 7270 Ecology of Newfoundland
- 7300 Ornithology
- 7301 Topics in Ecology and Conservation Biology
- 7510 Ichthyology
- 7520 Advances in Fish Biology
- 7530 The Molecular Basis of Development
- 7531 Biological Oceanography
- 7535 Research Methods in Marine Science
- 7540 Plankton Dynamics
- 7541 Physiological Ecology of Phytoplankton

7550 Fishery Biology
 7551 Fisheries Resource Management
 7560 Physiology of Marine Invertebrates
 7561 Physiology of Marine Vertebrates
 7570 Marine Benthic Biology
 7600 Effect of Organic and Inorganic Pollutants on Biological Systems
 7910 Community and Ecosystem Ecology
 7931 Research Methods in Genetic Biotechnology
 7920-7960 Special Topics in Biology (*Note: Biology 7931 may be delivered in an accelerated format outside of the regular semester timeframe*)

29.5 Chemistry

Professor and Head of the Department

P. Pickup

29.5.1 Program of Study

The Degree of Doctor of Philosophy in Chemistry is offered as full-time or part-time study. A Master's Degree in Chemistry or related area from a recognized university is normally required for entry into the Ph.D. program. Students holding a Bachelor's Degree (Honours or equivalent) in Chemistry may be considered for direct admission into the Ph.D. program. Students currently registered in the Memorial University of Newfoundland's Chemistry M.Sc. program for a minimum of three semesters may request transfer into a Ph.D. program. The transfer should be supported by the Supervisor and the Supervisory Committee and subsequent to satisfactory presentation of a written progress report and Ph.D. research proposal.

- Candidates are normally required to write American Chemical Society (ACS) placement test(s) in the first two weeks of the initial semester of registration in order to determine an appropriate course program.
- Candidates will be assigned a Supervisory Committee consisting of the Supervisor and at least two other appropriate faculty members appointed by the Dean on recommendation of the Chemistry Deputy Head (Graduate Studies).
- The program of a candidate must be arranged by the Supervisor in consultation with the Supervisory Committee and the student before the second semester of registration. It is the responsibility of the Supervisory Committee to meet at least annually with the student, to provide guidance at all stages of the candidate's program, and, in consultation with the student, to prepare annual written progress reports for submission to the Dean of Graduate Studies.
- Candidates holding a Master's Degree from a recognized university are normally required to successfully complete a minimum of 6 credit hours of graduate Chemistry courses with a minimum grade of B and to present a Departmental seminar on a topic not directly related to the candidate's research (Chemistry 6002) as well as a seminar describing the candidate's research (Chemistry 6003). Courses taken towards a Master's Degree may not be repeated. Candidates not holding a Master's Degree must successfully complete at least 12 credit hours of graduate Chemistry courses with a minimum grade of B in addition to Chemistry 6002 and 6003.
- Candidates are required to attend Departmental seminars.
- Candidates must pass a comprehensive examination, as described in the **General Regulations**, according to one of the following descriptions:
 - A 3 hour written part covering topics in Organic Chemistry, and, subsequent to the written examination at the discretion of the comprehensive examination committee, an oral exam designed to explore areas of perceived deficiency.
 - A 1.5 hour written part covering topics in Inorganic Chemistry, and, subsequent to the written exam, an oral examination designed to further explore areas of Inorganic Chemistry.
 - A paper on a research topic selected by the student in consultation with his/her supervisor and the examination committee, and subsequently, an oral examination designed to explore general areas of Analytical and/or Physical Chemistry and areas of chemistry related to the research topic.
- Candidates must submit and successfully defend a thesis deemed acceptable by two internal and one external examiner as outlined in the **General Regulations**.

29.5.2 Courses

6002 Doctoral Seminar
 6003 Doctoral Research Seminar
 6110 Analytical Chemistry II
 6150 Advanced Spectroscopic Techniques
 6151 Analytical Separations and Organic Mass Spectrometry
 6152 Electroanalytical Techniques
 6153 Techniques in Sampling, Trace Analysis and Chemometrics
 6154 Business Management and Good Laboratory Practice
 6155 Computers in Instrumental Analysis and Basic Electronics (same as Med 6070)
 6160 Laboratory Projects in Sampling, Electroanalysis and Trace Analysis
 6161 Laboratory Projects in Analytical Separations and Spectroscopic Techniques
 6190-9 Selected Topics in Analytical Chemistry
 6201 Bioinorganic Chemistry
 6202 Main Group Chemistry
 6204 Mechanisms in Catalysis
 6205 Photochemistry of Transition Metal Complexes
 6206 Green Chemistry
 6210 Organometallic Chemistry
 6290-9 Selected Topics in Inorganic Chemistry
 6300 Quantum Chemistry I
 6301 Quantum Chemistry II
 6302 Molecular Spectroscopy
 6304 Computational Chemistry I
 6310 Electronic Structure Theory
 6323 Chemical Thermodynamics I
 6324 Chemical Thermodynamics II

6340 Biophysical Chemistry
 6350 Electrochemical Kinetics
 6360 Solid State Chemistry
 6370 Nanoscale Phenomena
 6380 Adsorption on Surfaces
 6381 Surface and Interface Science
 6382-9 Selected Topics in Physical Chemistry
 6390-8 Selected Topics in Physical Chemistry
 6399 Chemical Kinetics and Dynamics
 6401 Organic Spectroscopic Analysis I
 6402 Organic Spectroscopic Analysis II
 6421 Natural Products Chemistry
 6460 Organic Synthesis
 6470 Physical Organic Chemistry
 6490-9 Selected Topics in Organic Chemistry
 6590-9 Selected Topics in Theoretical and Computational Chemistry
 6600 Applications of Inorganic and Organometallic Chemistry to Toxicology

29.6 Cognitive and Behavioural Ecology

Administrative Committee

Dr. I. Fleming, Department of Ocean Sciences - Co-Chair
 Dr. C. Walsh, Department of Psychology - Co-Chair
 Dr. T. Chapman, Department of Biology
 Dr. W. Montevecchi, Department of Psychology
 Dr. C. Purchase, Department of Biology
 Mr. P. Regular, Graduate Student Representative
 Dr. A. Storey, Department of Psychology
 Dr. I. Warkentin, Grenfell Campus

29.6.1 Program of Study

1. The Cognitive and Behavioural Ecology Graduate Program focuses on interdisciplinary animal behaviour research. Research integrates mechanistic, developmental, evolutionary and ecological perspectives on behaviour through molecular, individual and population levels of analysis. Supervisors include faculty from the Departments of Biology, Ocean Sciences, Psychology, the Faculty of Medicine and the Environmental Science Program at Grenfell Campus, as well as adjunct faculty from the Canadian Wildlife Service, Department of Fisheries and Oceans, the Newfoundland and Labrador Forestry and Wildlife Divisions and Parks Canada. The Departments of Biology and Psychology jointly offer the Master of Science and the Doctor of Philosophy degrees in Cognitive and Behavioural Ecology.
2. The Administrative Committee is responsible for the Program. Committee members are appointed by the Dean of Science, on the recommendation of the Chair of the Committee and of the Heads of Biology and Psychology. The Committee Chair is elected by the committee members and appointed by the Dean of Science. The Committee makes recommendations to the Dean of Graduate Studies concerning admissions and academic requirements. In consultation with supervisors, recommendations are made concerning course programs, financial support, thesis committees, comprehensive and thesis topics, examiners and students' annual progress. Upon program completion, the Committee certifies that all requirements for the appropriate degree have been met. The Department of the Supervisor ensures that adequate facilities are provided for each candidate. Students in Cognitive and Behavioural Ecology are considered for teaching assistantships in the Psychology or Biology Departments.

29.6.2 Regulations

1. There are no required courses for the doctoral program. However, the Doctoral Seminar (CABE 6992) and/or other courses tailored for individual students may be included in the student's program by the Dean of Graduate Studies on the recommendation of the Chair of the Committee.
2. The comprehensive examination should be taken during the first year of the program. An Examination Committee will be struck in accordance with **General Regulations**. At least one member of the Department of Biology and of the Department of Psychology (other than the Supervisor) must be on the Examination Committee. The candidate's Supervisor will be on the Examination Committee and will be the only examiner from the candidate's Thesis Supervisory Committee. The Head of the Department of the Supervisor or his/her delegate is invited to serve on the Comprehensive Examination Committee. The Examination Committee is chaired by the Chair of the Cognitive and Behavioural Ecology Committee. The examination will include a comprehensive, integrative review paper on a research topic in Animal Behaviour. The review topic is assigned by the Examination Committee, which also determines the submission date for the paper, and the date of the examination. Normally, the student will write the paper in four months, and the oral examination will occur within six weeks of the paper's submission. This paper will form the basis of a public seminar. The Examination Committee will question the candidate about the paper, the topic and its broader relationship with Cognitive and Behavioural Ecology.

29.6.3 Courses

Biology 7220 Quantitative Methods in Biology
 Cognitive and Behavioural Ecology 6240 Special Topics
 Cognitive and Behavioural Ecology 6350 Behavioural Ontogeny
 Cognitive and Behavioural Ecology 6351 Behavioural Ecology and Sociobiology
 Cognitive and Behavioural Ecology 6992 Doctoral Seminar
 Cognitive and Behavioural Ecology 7000 Field and Lab Methods in Animal Behaviour and Behavioural Ecology
 Psychology 6000 Advanced Statistics in Psychology

Table of Credit Restrictions - Doctor of Philosophy in Cognitive and Behavioural Ecology

(Credit may be obtained for only one course from each of the pairs of courses listed in this table.)

Present Course	Former Course
CABE 6240	Biopsychology 6240
CABE 6350	Biopsychology 6350
CABE 6351	Biopsychology 6351
CABE 7000	Biopsychology 7000

29.7 Computer Science**Associate Professor and Head of the Department**

E. Brown

The degrees of Master of Science and Doctor of Philosophy are offered in Computer Science.

29.7.1 Program of Study

1. Admission into the Ph.D. program in Computer Science is normally restricted to candidates holding a Master's Degree (or equivalent) in Computer Science or a closely related area. Others may be considered for admission. See **Qualifications for Admission** of the **General Regulations**. International applicants are strongly encouraged to submit results of the (general) Graduate Record Examination (GRE) Test.
2. Each candidate for the Ph.D. shall complete a program of graduate courses prescribed by the supervisory committee. The normal minimum will be 9 credit hours.
3. The candidate shall take the Comprehensive Examination within the time limits specified in **Comprehensive Examinations** of the **General Regulations**. Students should consult the Departmental guidelines for a detailed description of the content of the Comprehensive Examination.
4. The Ph.D. Degree program will conclude with an oral defence of the thesis as described in **Theses and Reports** of the **General Regulations**.

29.7.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

Programming Languages

6711 Syntax and Semantics of Programming Languages

6712 Compiling Techniques

6713 Software Engineering

6714 Functional Programming

6715 Logic Programming

6716 Concurrent Programming

6718-6719 Special Topics in Programming Languages

Computer Systems

6720 Distributed and Parallel Computing

6721 Operating Systems Design

6722 Advanced Computer Architectures

6723 Microprocessor Systems

6724 VLSI Design (same as Engineering 9863)

6725 Computational Aspects of VLSI (same as Engineering 9864)

6726 Modelling and Analysis of Computing Systems

6727 Introduction to High Performance Computer Systems

6728-6729 Special Topics in Computer Systems - Computer Networks

Numerical Computations

6731 Topics in Numerical Methods

6732 Matrix Computations

6738-6739 Special Topics in Numerical Methods

Theoretical Aspects

6741 Advanced Automata Theory

6742 Theory of Databases

6743 Complexity of Computational Problems

6745 Special Topics - Advanced Computational Geometry

6748-6749 Special Topics in Theoretical Computer Science

Applications

6751 Database Technology and Information Retrieval

6752 Applications of Computer Graphics

6753 Artificial Intelligence

6754 Post-Genomic Computational Biology

6755 Knowledge-Based Systems

6756 Digital Image Processing

6758-6769 Special Topics in Computer Applications

6770-6790 Special Topics in Computer Science

29.8 Earth Sciences**Associate Professor and Head of the Department**

R. Mason

The degrees of Master of Science and Doctor of Philosophy are offered in Earth Sciences (Geology) and Earth Sciences (Geophysics) by full-time and part-time study.

29.8.1 Program of Study

1. Admission into a Ph.D. program in Earth Sciences (Geology) and Earth Sciences (Geophysics) is normally restricted to candidates holding a Master's Degree or its equivalent. Candidates holding B.Sc. (Honours) degrees who show evidence of exceptional ability may be considered for a direct entry into a Ph.D. program. In exceptional circumstances, a candidate with a B.Sc. (Honours) Degree who has spent not less than 12 months in an M.Sc. Degree program may be recommended for transfer into a Ph.D. program, provided that the candidate can demonstrate, to the satisfaction of the Department of Earth Sciences, his/her ability to pursue research at the doctoral level.
2. A candidate for the Ph.D. Degree is normally required to complete 6 credit hours in addition to the credit hours required for the M.Sc. Degree. The courses must be selected from the overview and general courses below or with the approval of the supervisory committee and Head of Department, other graduate level courses including those offered by other departments. Depending on background and/or area of specialization, a candidate also may be required to complete additional courses in earth sciences or related subjects. All course requirements should be completed within 12 months from the date of the first registration in the Ph.D. program.
3. The Ph.D. Comprehensive Examination shall normally be taken in the first semester of registration in the Ph.D. program.
Note: *Detailed descriptions of the Ph.D. Comprehensive Examination are available upon request from the General Office of the Department of Earth Sciences.*
4. The Ph.D. Thesis Proposal Examination shall normally be taken in the second semester of registration in the Ph.D. program.
Note: *Detailed descriptions of the Ph.D. Thesis Proposal Examination are available upon request from the General Office of the Department of Earth Sciences.*
5. The Ph.D. Degree program will conclude with a thesis examination and an oral defense of thesis as prescribed in the **General Regulations, Theses and Reports.**
6. The Supervisor and the Head of the Department may recommend to the Dean of Graduate Studies that the program of a candidate who is not making satisfactory progress be terminated, in accordance with **General Regulation, Termination of a Graduate Program.**
7. A candidate is required to give an oral presentation to the Department on the results of his/her research. The presentation must be given during the second or third year of the program.

29.8.2 Courses

A selection of courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow.

Overview Courses

- 7110 Physics of the Solid Earth
- 7120 Crustal Geophysics
- 7300 Changes in Global Paleoenvironment
- 7400 Tectonic Regimes
- 7410 Engineering and Environmental Geology
- 7500 Chemical Fluxes in the Earth
- 7810 Paleocology (same as former 6810. Credit may be obtained for only one of 7810 or 6810)

General Courses

- 6070 Quantitative Techniques in Mineralogy and Metamorphic Petrology
- 6141 Rotation of the Earth
- 6142 Theory of Global Geodynamics
- 6152 Paleomagnetism
- 6171 Advanced Exploration Seismology
- 6172 Borehole Seismic
- 6175 Gravity and Magnetic Methods
- 6177 Mathematical Formulations of Seismic Wave Phenomena
- 6210 Genesis of Mineral Deposits
- 6320 Marine Geology
- 6400 Flow and Transport in Fractured Rock
- 6410 Advanced Engineering and Environmental Geology
- 6420 Deformation Mechanisms
- 6500 Stable Isotope Geochemistry
- 6510 Trace Element Geochemistry
- 6520 Methods in Advanced Research in Geochemistry
- 6540 Radiogenic Isotope Geochemistry
- 6550 Biogeochemistry
- 6600 Petroleum Geology
- 6740 Modern and Ancient Sedimentary Environments
- 6750 Sequence Stratigraphy
- 6820 Palynology and Paleobotany
- 6900-6999 Special Topics in Earth Sciences

29.9 Education

Associate Professor and Dean

K. Anderson

Associate Professor and Associate Dean

T. Seifert

The degrees of Master of Education and Doctor of Philosophy are offered in Education.

The Degree of Doctor of Philosophy in Education is offered to qualified candidates, normally by full-time study. The **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland outlined in the current Calendar, and the Degree Regulations of the Faculty of Education outlined below will apply.

29.9.1 Admission to the Ph.D. Program

General qualifications for admission to the Ph.D. Programs at Memorial University of Newfoundland are set out in the University Calendar under School of Graduate Studies, General Regulation **Qualifications for Admission, Ph.D. Program**.

In addition, the following admission requirements apply:

1. an 'A' standing in a Master's Degree in Education or in an equivalent Master's Degree from an accredited university;
2. evidence of scholarly work, such as a master's thesis, directed research project, or qualifying research paper;
3. normally, completion of two years of professional experience in an educational setting.

29.9.2 Supervisory Committee

Each candidate will have a supervisory committee comprised of a minimum of three members, at least two of whom shall be members of the Faculty of Education. The thesis Supervisor shall be a faculty member in the Faculty of Education, Memorial University of Newfoundland.

29.9.3 Program of Study

1. Courses

- a. Students are required to successfully complete two courses on the doctoral program.

Education 7001 - Doctoral Seminar in Education: Area of Specialization

Education 7002 - Advanced Educational Research

- b. Based on a consideration of educational background and research interest, students may be required to complete (or have completed at the masters level) as many as two (2) additional courses in research related to their program focus and specialty.
- c. Normally, no more than four courses may be undertaken on a candidate's program.
- d. Education 7003-30 - Special Topics (offered as required)

2. Comprehensive Examination

The candidate shall undertake a written and an oral comprehensive examination, which will follow General Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination** which sets out the procedures for the comprehensive examination.

- a. A candidate in a Ph.D. program in Education shall normally take the written Comprehensive Examination prior to the seventh semester of the program. The candidate will have completed required courses prior to taking the Comprehensive Examination. In preparation for the Comprehensive Examination, the doctoral candidate, with the guidance of the candidate's Supervisor, will undertake study of the sub-disciplines/areas of concentration identified by the candidate and supervisory committee and approved by the Doctoral Committee. Normally, these will include the candidate's area of concentration and two additional sub-disciplines/areas of concentration.
- b. Such study of sub-disciplines will normally include but not be limited to developing a reading list of important historical and current publications within the sub-disciplines, identifying emerging research emphases within the sub-disciplines, and writing scholarly review papers of these publications.
- c. In preparation for the written comprehensive examination, the doctoral candidate and the supervisory committee will agree on the topics to be examined. The examination will be written over a two day period.
- d. Normally, the oral comprehensive examination will occur within six weeks of the written examination, which if judged to be successful by the Comprehensive Examination Committee, will form the basis of an oral comprehensive examination.
- e. The procedure for scheduling the Comprehensive Examination shall be initiated by the candidate's Supervisor who will notify, in writing, the Dean of Education of the candidate's readiness. The date of both the written examination and the oral examination will be determined by the Dean of Education. The candidate will receive a written notice of the scheduled date for both examinations from the Dean of Education.
- f. The Comprehensive Examination Committee shall be appointed by the Dean of Graduate Studies in accordance with School of Graduate Studies General Regulation **Comprehensive Examination, Ph.D. Comprehensive Examination** on the recommendation of the Dean, Faculty of Education. There will be six members of the Comprehensive Examination Committee as follows:

Dean of Education or delegate (Chair)

Chair of the Doctoral Committee of the Faculty Council of Education

Candidate's Supervisor

Second member of candidate's supervisory committee

Dean of School of Graduate Studies or delegate (non-voting)

Member of the Faculty of Education or educational community selected by the Dean of Education.

In the event that the Chair of the Doctoral Committee is the candidate's Supervisor, the Dean of Education shall appoint an additional member.

3. Ph.D. Thesis Regulations

- a. The candidate must submit a thesis proposal based on his/her own research interest to all members of the Supervisory Committee for critical evaluation. Normally, the proposal must be approved prior to the eighth semester of the program. The Chairperson of the Supervisory Committee will inform the candidate within one month of its acceptance, rejection or acceptance

with recommended changes.

- b. If the proposal is not acceptable, the candidate will normally be permitted a second attempt. The revised proposal must be submitted and deemed acceptable by the Supervisory Committee within a semester. Failure to resubmit within this time period will lead to termination of the candidate's program.
- c. The thesis shall give evidence of the candidate's ability to carry out independent and original research, develop the necessary theoretical and methodological framework and analyses, and present the findings in a scholarly manner.
- d. Each candidate will be required to present a seminar on her/his thesis research to the Faculty.
- e. Ph.D. program will conclude with the examination and oral defence of the completed thesis in accordance with the appropriate sections of the General Regulation **Theses and Reports, Evaluation of Ph.D. Theses** governing the School of Graduate Studies.

29.9.4 Courses

7001 Doctoral Seminar in Education: Area of Specialization
7002 Advanced Educational Research
7003-30 Special Topics

29.10 Engineering and Applied Science

Professor and Dean

G. Naterer

Professor and Associate Dean (Graduate Studies)

L. Lye

The degree of Doctor of Philosophy (Ph.D.) is offered in the Faculty of Engineering and Applied Science and may be obtained either through full-time or part-time studies. The Ph.D. degree can be obtained through programs in Civil Engineering, Computer Engineering, Electrical Engineering, Mechanical Engineering, Ocean and Naval Architectural Engineering, and Oil and Gas Engineering.

29.10.1 Qualifications for Admission

Admission to the Ph.D. program is limited and competitive. All applicants must meet the minimum qualifications described in the **General Regulations** for the School of Graduate Studies. Admission is normally restricted to candidates holding a Master's Degree in Engineering or a related area. Decisions on admission, however, will also take into account such things as the applicant's rank in class, referees' assessments, general performance throughout the applicant's previous academic programs, and the availability of supervisors in the area of the applicant's interest. In cases of demonstrated ability, a student enrolled in the M.Eng. program may be allowed to transfer to the Ph.D. program without the completion of all the M.Eng. Degree requirements. As well, in exceptional cases, direct entry to the Ph.D. program, after completion of a Bachelor's Degree in Engineering or a related area, is possible.

Normally, applicants will be considered in January for admission for the following September. In special cases, applicants may also be considered in April and August. Applications should be made sufficiently far in advance to permit the University to obtain all relevant documents and review the application.

29.10.2 Program of Study and Research

A Ph.D. program shall normally consist of three components:

1. a minimum of 6 credit hours consisting of graduate courses recommended by the student's supervisory committee
2. a comprehensive examination as detailed in **Regulations for Ph.D. Comprehensive Examination**.
3. a thesis satisfying the requirements of the **General Regulations** for the School of Graduate Studies.

In cases of direct entry after a Bachelor's Degree or promotion from a Master's program before fulfilment of the Master's course requirements, it is likely that the student will be required to take more credit hours than the normally required minimum. In such cases, the requirements for the course component of the student's program will be reviewed on an individual basis by the student's supervisory committee and the Dean of the Faculty of Engineering and Applied Science.

29.10.3 Regulations for Ph.D. Comprehensive Examination

Timing

The Comprehensive Examination for Ph.D. candidates in the Faculty of Engineering and Applied Science shall be conducted in two parts: I) General Examination and II) Examination of the Research Proposal. A candidate registered full-time in the Ph.D. Program shall normally take Part I of the exam within four semesters of the start of their program and Part II within six semesters. Part-time students will normally take Part I of the exam within four semesters of the start of their program and Part II within seven semesters. Students transferring from a Master of Engineering program will normally complete both parts within seven semesters of the start of their Master of Engineering program.

The Examination Committee shall be appointed by the Dean of Graduate Studies on the recommendation of the Dean of Engineering and Applied Science, normally within three semesters of the start of the student's program.

Examination Procedure

Part I General Examination is an oral examination of the candidate's mastery of selected sub-disciplines of Engineering and Applied Science related to their area of research. The candidate will be apprised of the sub-disciplines in writing no later than three months prior to the examination. The examination is open to the University community; however, only members of the Committee are permitted to ask questions. The Committee may make four recommendations following this examination: I) the candidate may proceed to Part II of the Comprehensive Examination, ii) the candidate may proceed to Part II but will be assigned additional course work to their program of study, iii) the candidate will be assigned additional study materials and redo Part I in 2 to 8 weeks, iv) the candidate fails. Part I may only be redone once and failing Part I means that the Comprehensive Examination is failed without proceeding to Part II.

Part II Examination of the Research Proposal shall consist of I) a research proposal, normally of no more than 10,000 words, that should clearly define the research problem, survey literature, present the research method or experimental design, and may include a summary of results already obtained, and ii) a 20 to 30 minute presentation. The candidate should submit the written proposal at least one month prior to the presentation which is open to the University community and will be followed by questions from the Committee and the audience.

Committee Recommendations

Following Part II, the Examination Committee will meet in camera to decide a final recommendation for the Committee Chair to forward to the Dean of Graduate Studies. The possible recommendations in accordance with **General Regulation Comprehensive Examinations, Ph.D. Comprehensive Examination** are "pass with distinction", "pass", "re-examination" or "fail".

29.10.4 Courses

For a list of graduate courses offered by the Faculty of Engineering and Applied Science refer to the list of "Core Courses" and the list of "Other Courses" offered for the Master of Engineering program.

29.11 English Language and Literature

Associate Professor and Head of the Department

D. Walsh

The degrees of Master of Arts and Doctor of Philosophy are offered in English Language and Literature.

Candidates for the M.A. in English may complete the program as either part-time or full-time students. Candidates for the Ph.D. in English must be in attendance as full-time students for at least three semesters of the program.

29.11.1 Program of Study

1. Admission to the Ph.D. in English is limited and competitive. Applicants should have a Master's Degree in English or its equivalent from a recognized university and should have an outstanding academic record.
2. All candidates will be required to complete 15 credit hours in graduate courses. These courses will be selected by the candidate in consultation with the candidate's Supervisory Committee.

While candidates will normally be free to choose graduate courses of interest to them, it will be a primary responsibility of their Supervisory Committees to ensure that any serious deficiencies in their record of previous courses, graduate and undergraduate, are remedied, particularly in the area of proposed thesis research.

3. Candidates who have not previously taken English 7003 or its equivalent will take English 7003, which will count as one of the required courses for the Ph.D. Students who have taken English 7003 or its equivalent before entering the Ph.D. program must still complete 15 credit hours.
4. Candidates who have not completed English 4900 or English 5900 or an equivalent course will be required to complete English 5900, which will not count as one of the required courses for the Ph.D. The course will be graded "pass" or "fail". As in other graduate courses a grade of 65B or above is considered a pass.
5. Candidates must submit a thesis proposal which includes a statement of topic, a working title, a plan of research and a preliminary bibliography. The thesis proposal should be approved by the Supervisory Committee and submitted to the Departmental Graduate Studies Committee for its approval before the Comprehensive Examination and before the end of the fifth semester. The Departmental Graduate Studies Committee shall return the thesis proposal to the candidate no later than one month after receiving it.
6. Reading knowledge of a second language will be required of all candidates. Reading knowledge is defined as a minimum B grade in a second-year language course taken within the previous five years, a passing grade in an approved second-language course for graduate students, or performance satisfactory to the Department in an arranged reading proficiency test (in which a dictionary may be used).

The language requirement should be completed before the Comprehensive Examination is taken.

The second language will normally be French. In exceptional circumstances, and on the recommendation of the Supervisory Committee and the Departmental Graduate Studies Committee, a language other than French may be substituted.

The Supervisory Committee may also require a demonstrated reading knowledge of an additional language (other than French or the substituted language) if such knowledge is deemed necessary for the student's research interests.

7. The Ph.D. Comprehensive Examination in English is a written examination prepared by the candidate's Comprehensive Examination Committee.

In accordance with **General Regulation Comprehensive Examinations, Ph.D. Comprehensive Examination**, the candidate's Comprehensive Examination Committee will include the Head (or the Head's delegate, usually the Graduate Co-ordinator), the candidate's Supervisor, and three other members of the Department.

The written examination shall consist of three parts: a four-hour examination in the student's area of concentration and two three-hour examinations in two other specified areas. In accordance with **General Regulation Comprehensive Examinations, Ph.D. Comprehensive Examination**, the examination shall take place before the end of the seventh semester.

Candidates will be graded "pass with distinction", "pass", "re-examination", or "fail", in accordance with **General Regulation Comprehensive Examinations, Ph.D. Comprehensive Examination**, 4. Candidates who are marked for "re-examination" will be re-examined in the area or areas in which the Comprehensive Examination Committee has determined that the candidate's performance is deficient. The nature of this re-examination (and whether it will be written or oral) is left to the discretion of the Comprehensive Examination Committee.

29.11.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow.

- Notes:
1. *Since it is impossible to list in detail the many topics that may from time to time be offered, the titles below refer only to the major periods and general subject areas in which specific courses may be available. The content and approach in specific courses will vary according to the research interests of students and faculty involved in the course. Students should consult the Department's annual Graduate Student Guide (or the Graduate Co-ordinator) for detailed descriptions of specific course offerings. Normally, no fewer than 30 credit hours in graduate courses are offered in any given academic year.*
 2. *English 5900 cannot be counted as one of the required graduate courses in any program.*
 3. *All students will normally take English 7003 - Trends in Contemporary Literary Theory, usually in their first semester.*
 4. *Students who took graduate courses in English at Memorial University of Newfoundland before 1997 should consult with the Department before selecting further courses.*

5900 Bibliography and Research Methods
6403 Etymology (same as Linguistics 6403)
6420 English Dialectology I

6421 English Dialectology II
 6999 Master's Essay (for non-thesis students)
 7003 Trends in Contemporary Critical Theory
 7004 English Phonology and Morphology
 7005 The Syntactic Structure of English
 7020-25 Special Topics in English
 7032 Studies in Old English I
 7033 Studies in Old English II
 7034 Studies in Middle English I
 7035 Studies in Middle English II
 7036 Studies in Middle English III
 7037 Studies in 16th-Century Literature I
 7038 Studies in 16th-Century Literature II
 7039 Studies in 16th-Century Literature III
 7040 Studies in 16th-Century Literature IV
 7041 Studies in 17th-Century British Literature I
 7042 Studies in 17th-Century British Literature II
 7043 Studies in 17th-Century British Literature III
 7044 Studies in 17th-Century British Literature IV
 7045 Studies in 18th-Century British Literature I
 7046 Studies in 18th-Century British Literature II
 7047 Studies in 18th-Century British Literature III
 7048 Studies in 18th-Century British Literature IV
 7049 Studies in 19th-Century British Literature I
 7050 Studies in 19th-Century British Literature II
 7051 Studies in 19th-Century British Literature III
 7052 Studies in 19th-Century British Literature IV
 7053 Studies in 20th-Century British Literature I
 7054 Studies in 20th-Century British Literature II
 7055 Studies in 20th-Century British Literature III
 7056 Studies in 20th-Century British Literature IV
 7057 Studies in Pre-19th Century American Literature
 7058 Studies in 19th Century American Literature I
 7059 Studies in 19th-Century American Literature II
 7060 Studies in 19th-Century American Literature III
 7061 Studies in 20th-Century American Literature I
 7062 Studies in 20th-Century American Literature II
 7063 Studies in 20th-Century American Literature III
 7064 Studies in 20th-Century American Literature IV
 7065 Studies in Pre-19th Century Canadian Literature
 7066 Studies in 19th-Century Canadian Literature I
 7067 Studies in 19th-Century Canadian Literature II
 7068 Studies in 19th-Century Canadian Literature III
 7069 Studies in 20th-Century Canadian Literature I
 7070 Studies in 20th-Century Canadian Literature II
 7071 Studies in 20th-Century Canadian Literature III
 7072 Studies in 20th-Century Canadian Literature IV
 7073 Studies in Newfoundland Literature I
 7074 Studies in Newfoundland Literature II
 7075 Studies in Newfoundland Literature III
 7076 Studies in Anglo-Irish Literature I
 7077 Studies in Anglo-Irish Literature II
 7078 Studies in Modern Drama
 7079 Studies in Post-Colonial Literature I
 7080 Studies in Post-Colonial Literature II
 7081 Studies in Post-Colonial Literature III
 7082 Studies in Critical Theory I
 7083 Studies in Critical Theory II
 7084 Studies in Critical Theory III
 7085 Special Readings in English I
 7086 Special Readings in English II
 7087 Special Readings in English III

29.12 Environmental Science

Board of Study

Dr. J. Wroblewski, Department of Ocean Sciences - Chair
 Dr. C. Campbell, Division of Science, Grenfell Campus, ex-officio
 Dr. B. Chen, Faculty of Engineering and Applied Science
 Dr. R. Chuenpagdee, Department of Geography
 Dr. P. Marino, Head, Department of Biology
 Dr. W. Montevocchi, Department of Psychology
 Dr. L. Tarasov, Department of Physics and Physical Oceanography
 Dr. S. Ziegler, Department of Earth Sciences

29.12.1 General Information

1. The Environmental Science Program is an interdisciplinary graduate program involving the departments of the Faculty of Science, the Faculty of Arts, the Faculty of Medicine and the Faculty of Engineering and Applied Science. There are three Environmental Science Graduate Degree streams: the Master of Science (M.Sc., Environmental Science), Master of Environmental Science (M.Env.Sci.), and the Doctor of Philosophy (Ph.D., Environmental Science). The program is available on a full or part-time basis.

2. The program is administered by a Board of Studies appointed by the Dean of Science. Supervisors of graduate students in the program include faculty from the Faculty of Science, the Faculty of Arts, the Faculty of Engineering and Applied Science, the Faculty of Medicine, and the Environmental Science Program at the Grenfell Campus, as well as adjunct appointees to the program (as a co-supervisor).

29.12.2 Program of Study

1. The Doctor of Philosophy (Ph.D., Environmental Science) is a research degree which includes a doctoral dissertation and course work. Normally, students entering the Ph.D. program in Environmental Science will have a M.Sc. degree from an institution recognized by the Senate. Students in the Master of Science (Environmental Science) program, after a minimum of 12 months in their program of studies, may request a transfer to the Ph.D. program. Final decision for transfer from the M.Sc. program to the Ph.D. program rests with the Dean of the School of Graduate Studies. There are two courses (6 credit hours) required for the doctoral program. All students take ENVS 6010 and those with a disciplinary M.Sc. degree in Science from a recognized university also take ENVS 6000. Other courses tailored for individual students are included in the student's program by the Dean of Graduate Studies on the recommendation of the Chair of the Board of Studies.

2. The comprehensive examination should be taken on completion of all course work. An Examination Committee will be struck in accordance with the **General Regulations**. At least two members of the Board of Studies must be on the Examination Committee. The candidate's Supervisor will be on the Examination Committee and will be the only examiner from the candidate's Thesis Supervisory Committee. The Head of the Department of the Supervisor or his/her delegate is invited to serve on the Comprehensive Examination Committee. The Examination Committee is chaired by the Chair of the Environmental Science Program. The examination will be both written and oral. The topic is assigned by the Examination Committee, which also determines the submission date for the paper, and the date of the examination. Normally, the student will write the paper within four months, and the oral examination will occur within six weeks of the paper's submission. This paper will form the basis of a public seminar. The Examination Committee will question the candidate about the paper, the topic and its broader relationship with Environmental Science.

3. The doctoral thesis is based on the results of systematic, independent research on an approved scientific topic. To ensure the research is interdisciplinary, the supervisory committee must be made up of members from at least two different departments. The candidate will be required to present a Ph.D. research proposal to the supervisory committee. The completed thesis will be evaluated according to the **General Regulations** of the School of Graduate Studies. It must contribute significantly to knowledge in the field of Environmental Science.

29.12.3 Courses

ENVE/ENVS 6000 Environmental Science and Technology
 ENVE/ENVS 6001 Earth and Ocean Systems
 ENVE/ENVS 6002 Environmental Chemistry and Toxicology
 ENVE/ENVS 6003 Applied Ecology
 ENVS 6004 Environmental Pollution and Mitigation (cross-listed as ENGI 9601)
 ENVS 6007 Environmental Risk Assessment (cross-listed as ENGI 9609)
 ENVS 6008 Air Pollution (cross-listed as ENGI 9624)
 ENVS 6010 Environmental Seminar
 ENVS 6201-6210 Selected Topics in Environmental Science

29.13 Ethnomusicology

Professor and Dean

E. Waterman

Professor and Associate Dean

M. Volk

The Doctor of Philosophy program in Ethnomusicology is administered by the School of Music in consultation with the Department of Folklore, and generally in response to recommendations from an Interdisciplinary Advisory Committee with representation from both academic units, chaired by the Program Co-ordinator.

The Degree of Ph.D. in Ethnomusicology is offered by part-time and full-time study. This program is a research Degree, generally involving extended fieldwork. The resources of the Memorial University of Newfoundland Folklore and Language Archive are available to graduate students in Ethnomusicology.

29.13.1 Qualifications for Admission

Applicants may be admitted to the program if they have at least a B+ average in a M.A. Degree in Ethnomusicology, another field of Music, or other relevant discipline in the Humanities or Social Sciences with evidence of specialization in music. Applicants from a discipline other than Music will be expected to demonstrate the following skills:

- Competent performance in any musical tradition, as judged by a musician knowledgeable about that tradition.
- Knowledge of culturally appropriate language for discussion of performance techniques in that tradition.
- Ability to discuss musical details on the basis of aural and/or written sources, as appropriate to that tradition.

Candidates for admission may, at the discretion of the Interdisciplinary Advisory Committee, be required to write diagnostic examinations measuring skills and knowledge in music literacy, theory, or aural perception. Candidates with deficiencies in any of these areas may be required to take remedial course work prior or in addition to the required program.

Upon completion of M.A. course work, students who have attained an A average may wish to be considered for transfer to the Ph.D. program. Students who seek this option must apply to the Interdisciplinary Advisory Committee to be considered for transfer one month prior to the completion of their M.A. courses or by the end of the 5th semester (see General Regulation **Qualifications for Admission, Master's Program**).

29.13.2 Program of Study

The Ph.D. program may be completed within twelve to fifteen consecutive semesters of full-time study, depending on fieldwork requirements. The Degree is normally taken by completing course work, comprehensive examinations, a language proficiency requirement, and a Ph.D. thesis, defended in accordance with General Regulation **Theses and Reports** of the School of Graduate Studies.

1. Students must complete a minimum of 21 credit hours of course work. If required courses have been completed at the M.A. level,

electives may be substituted (with approval of the Interdisciplinary Advisory Committee). The required courses are:

- a. Music 8001; Folklore 6010, 6030.
 - b. ONE of Music 6002 or Folklore 7100.
 - c. Nine credit hours of electives selected from courses listed below or from relevant courses offered in another discipline (with the approval of the Interdisciplinary Advisory Committee). Ph.D. students may take up to two courses (6 credit hours) in a cognate discipline.
 - d. Reading proficiency in one language other than English, relevant to the research area, demonstrated to the satisfaction of the Interdisciplinary Advisory Committee. The choice of language must be approved by the Interdisciplinary Advisory Committee. The language exam should normally be completed before the comprehensive exams.
2. Comprehensive examinations will be administered in a major area, minor area, and theoretical/interdisciplinary area; a component of the comprehensive examination will test audio-visual skills. Bibliographies and discographies for several focussed topics will be developed by the student in consultation with his/her supervisory committee and will be the basis of examination questions. The written portion of the examination will be scheduled over a one-week period. The Comprehensive Examination Committee will normally schedule a consultation with the student to discuss the written essays within one month following the completion of the written examination. For further information see General Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination**.
 3. Students must complete a thesis, examined and defended in accordance with General Regulation **Theses and Reports** of the School of Graduate Studies. A thesis proposal, including a working title, statement of purpose and research scope, outline of theoretical and methodological approach, working plan, and preliminary bibliography, together with proposed membership of the supervisory committee, must be submitted to the Interdisciplinary Advisory Committee no later than the fifth semester of study. The thesis shall demonstrate the candidate's ability to carry out original and independent research, develop the necessary theoretical and methodological framework, and present the findings in a scholarly manner.

29.13.3 Courses

Theories and Methods:

Music 6001 Research Methods
 Music 6002 Graduate Seminar
 Music 7001 Research Problems and Methods in Ethnomusicology
 Music 8001 Theoretical Issues in the Study of Music
 Folklore 6010 Survey of Folklore Genres and Processes
 Folklore 6020 Field and Research Methods
 Folklore 6030 Folklore Theories
 Folklore 6040 Feminist Theories: Perspectives and Issues
 Folklore 6080 Vernacular Theories
 Folklore 6090 Ethnology
 Folklore 7100 Advanced Folkloristics II: Research and Ethnography

Form and Performance:

Music 7005 Performance Option
 Folklore 6100 Song and Music
 Folklore 6120 Ballad
 Folklore 6130 Folk Music Canons and Documentary Sound Recordings
 Folklore 6200 Folktale
 Folklore 6210 Legend
 Folklore 6220 Personal Experience Narrative
 Folklore 6250 Language and Play
 Folklore 6260 Ethnography of Communications
 Folklore 6300 Ethnography of Belief
 Folklore 6310 Health Systems
 Folklore 6350 Custom
 Folklore 6360 Traditional Drama
 Folklore 6400 Material Culture
 Folklore 6410 Vernacular Architecture
 Folklore 6420 Art and the Artifact
 Folklore 6430 Food and Culture
 Folklore 6720 Folklore and Literature

Area and Genre Studies:

Music 7010 World Music: Music of Asia and Oceania
 Music 7011 World Music: Music of Africa and the Americas
 Music 7012 Canadian Musical Traditions
 Music 7013 Music and Culture
 Music 7017 Folksong
 Music 7018 Jazz and Blues: The Roots of Popular Music
 Folklore 6120 Ballad
 Folklore 6600 Folklore of Newfoundland
 Folklore 6610 Folklore of Canada
 Folklore 6620 Folklore of the United States
 Folklore 6630 Folklore of the British Isles
 Folklore 6770 The Global and the Local

Social Identities:

Music 7006 Urban Ethnomusicology
 Music 7007 Music in the Study of Gender, Race and Class
 Music 7009 Music and Place
 Folklore 6510 Occupational Folklore
 Folklore 6551 Indigenous Expressive Cultures in Cross-cultural Encounter
 Folklore 6730 Folklore and Gender
 Folklore 6780 Ethnicities

Independent Study:

Music 7026-29 Directed Reading in Ethnomusicology
Folklore 6570-79 Reading Course in Folklore

Special Topics:

Music 6800-09 Special Topics in Music
Music 7800-09 Special Topics in Music
Folklore 6511-29 Special Topics in Folklore
Folklore 6570-79 Reading Course in Folklore

Public and Applied Ethnomusicology and Folklore:

Music 6700 Music Industries Seminar
Music 6750 Music Industries Internship (2 credit hours)
Folklore 6740 Public Sector Folklore
Folklore 6760 Archiving
Folklore 6790 Museums: Perspectives and Practices
Folklore 6800 Applied Folklore

Interdisciplinary Perspectives:

Music 7008 Media Studies
Folklore 6700 Folklore and Culture
Folklore 6710 Oral Tradition and Oral History
Folklore 6750 Popular Culture: Theory and Debate

29.14 Folklore**Associate Professor and Head of the Department**

D. Tye

The Degree of Doctor of Philosophy in Folklore is offered by part-time and full-time study and is primarily a research Degree. The program normally requires extensive fieldwork research in Newfoundland and/or the Maritimes.

Integral to the teaching of the Department of Folklore is the work of the Memorial University of Newfoundland Folklore and Language Archive; see section under **Master of Arts, Folklore**.

29.14.1 Program of Study

1. An applicant for admission to the Ph.D. program in Folklore must hold an M.A. Degree in Folklore, or its equivalent as determined by the Head of the Department and the Dean, with an average grade in M.A. courses of not less than 80%.
2. All Ph.D. students in the Folklore program must complete *at least 18 credit hours* in program graduate courses which shall include Folklore 7000 and 7100. Candidates will normally be free to choose graduate courses of interest to them in Folklore or related disciplines, though it will be a primary responsibility of their committees to ensure that any serious deficiencies are made good. At the end of the second semester the program and further status of the candidate will be reviewed.
3. Second Language Requirements:
 - a. All Ph.D. candidates are required to demonstrate an adequate reading knowledge of a second language - normally a common, modern language.
 - b. Reading knowledge is defined as a minimum B grade in a second-year language course taken within the previous five years, or performance satisfactory to the Department in an arranged reading proficiency test.
 - c. The selection of a second language can be based on the student's research requirements.
 - d. The selection of a second language must be made in consultation with the student's faculty advisor or Supervisor. Confirmation that the choice is acceptable must be obtained from the Department.
 - e. The language requirement must normally be fulfilled before a student takes the Ph.D. Comprehensive Examination.
4. Comprehensive Examination for the Ph.D.:
 - a. The Ph.D. Comprehensive Examination shall be administered in accordance with **General Regulations, Comprehensive Examinations**. Candidates will prepare for three examinations by undertaking supervised readings in three fields decided by the Comprehensive Examinations Committee. The basic principle is to integrate knowledge within specific areas of folklore and folklife scholarship. The examination normally will be written with the format to be determined by the Comprehensive Examination Committee in consultation with the student. Assessment will be based on the examination of three papers each of one week duration or three closed book examinations each of eight hours duration. The Committee will recommend to the Dean of Graduate Studies a grade of PAS (pass), FAL (fail), or PWD (pass with distinction).
 - b. Examination normally will take place only upon the completion of the second language requirements and no earlier than the end of the first year after admission to candidacy but no later than one year after the completion of the program courses. The examination normally will be scheduled in the second semester following the candidate's completion of courses.
5. Ph.D. Thesis:
 - a. The candidate will normally submit a thesis proposal based on his/her own interests no later than the end of the semester following the completion of comprehensive examinations. The thesis proposal will include a working title, names of preferred Supervisor and two other Committee members, statement of topic, plan of research, statement of methodological and theoretical approach, a brief review of the literature and a preliminary bibliography. The proposal will be circulated to the Department for critical evaluation on the basis of which the candidate will be informed, within one month, by the Supervisor, of its acceptance, rejection, or acceptance with recommended changes.
 - b. The thesis shall give evidence of the candidate's ability to carry out independent and original research, develop the necessary theoretical and methodological framework and present the findings in a scholarly manner.

29.14.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, normally after consultation with the Head of the Department or the Graduate Studies Administrator, and as far as the resources of the Department will allow. Courses are structured according to the categories of: Theories and Methods, Issues, Form and Performance, Special Topics, Regional, National and International Heritage, Social Identities, Public and Applied Folklore, Interdisciplinary Perspectives and Required (Ph.D.):

Theories and Methods

6010 Survey of Folklore Genres and Processes
 6020 Field and Research Methods
 6030 Folklore Theories
 6040 Feminist Theories: Perspectives and Issues
 6080 Vernacular Theories
 6090 Ethnology

Issues

6050 Issues in Folkloristics
 6060 Issues in Folk Literature
 6070 Issues in Folklife

Form and Performance

6100 Song and Music
 6120 Ballad
 6130 Folk Music Canons and Documentary Sound Recordings
 6200 Folktale
 6210 Legend
 6220 Personal Experience Narrative
 6250 Language and Play
 6260 Ethnography of Communications
 6300 Ethnography of Belief
 6310 Health Systems
 6350 Custom
 6360 Traditional Drama
 6370 Ritual, Festival and Public Display
 6400 Material Culture
 6410 Vernacular Architecture
 6420 Art and the Artifact
 6430 Food and Culture
 6720 Folklore and Literature

Special Topics

6511-29 Special Topics in Folklore
 6550 Special Research in Folklore
 6551 Indigenous Expressive Cultures in Cross-Cultural Encounter
 6552-69 Special Research in Folklore
 6570-79 Reading Course in Folklore

Regional, National and International Heritage

6600 Folklore of Newfoundland
 6610 Folklore of Canada
 6620 Folklore of the United States
 6630 Folklore of the British Isles
 6640 Traditional Culture of Scotland
 6650 Culture and Traditions of Ireland
 6660 Folklore of the Francophone Regions
 6690 International Folklore

Social Identities

6510 Occupational Folklife
 6730 Folklore and Gender
 6770 The Global and the Local
 6780 Ethnicities

Public and Applied Folklore

6740 Public Sector Folklore
 6760 Archiving
 6790 Museums: Perspectives and Practices
 6800 Applied Folklore

Interdisciplinary Perspectives

6700 Folklore and Culture
 6710 Oral Tradition and Oral History
 6750 Popular Culture: Theory and Debate

Required (Ph.D.)

7000 Advanced Folkloristics I
 7100 Advanced Folkloristics II Research and Ethnography

Credit may not be obtained for both 6010 and the former 6110; 6020 and the former 6111; 6030 and the former 6112; 6100 and the former 6430; 6120 and the former 6445; 6300 and the former 6230; 6350 and the former 6230; 6400 and the former 6501; 6720 and the former 6460.

29.15 Food Science

See **Biochemistry**.

29.16 Geography

Professor and Head of the Department

C. Mather

29.16.1 Program of Study

1. To be admitted to the program, an applicant must have completed either a Master of Arts or a Master of Science Degree, or its

equivalent, in Geography or a related discipline. In exceptional circumstances, a candidate who has completed either a B.A. (Honours) or B.Sc. (Honours) Degree, and who has spent not less than 12 months in a M.A. or M.Sc. Degree program may apply for transfer into a Ph.D. program. A successful application for transfer will require that the candidate demonstrate to the satisfaction of the Department an ability to pursue research at the doctoral level.

2. The deadline for submission of applications for admission is January 15. Candidates will normally commence their programs in the Fall semester.
3. Research areas for graduate study at the Doctoral level are cultural, political and historical geography, economic geography, resource management, community and regional development, physical geography and geographic information sciences.
4. An applicant will be admitted to a doctoral program only if a faculty member agrees to act as Supervisor, and at least two other individuals are willing to serve on the supervisory committee.
5. All candidates must successfully complete Geography 6000 and 6001 if these courses, or equivalent courses, have not been included in their Master's program. In addition, all candidates are required to successfully complete a minimum of 3 credit hours in graduate program courses.
6. The supervisory committee may decide that a candidate successfully completes an examination for reading or speaking a language other than English.
7. After the successful completion of all required courses, candidates must take a comprehensive examination which will have both a written and an oral component.
8. Following successful completion of the comprehensive examination the candidate will submit a written research proposal to the supervisory committee. The proposal must then be approved by the Committee prior to the commencement of research by the candidate.
9. Each candidate will be required to present a seminar on their research to the Department.
10. The Ph.D. program will conclude with the examination and oral defence of the completed thesis in accordance with the appropriate sections of the **General Regulations** governing the School of Graduate Studies.

29.16.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow:

6000 Development of Geographical Thought and Practice I
 6001 Development of Geographical Thought and Practice II
 6002 Directed Readings in Geography
 6100 Research Techniques in A Selected Field of Geography I
 6101 Research Techniques in A Selected Field of Geography II
 6120 Geospatial Modelling and Analysis
 6150 Environmental Remote Sensing and Image Analysis
 6200 Economic Geography I
 6201 Economic Geography II
 6204 Sustainable Community and Regional Development
 6250 Conservation and Sustainability of Natural Resources
 6251 Survey Design, Questionnaire Development and Techniques of Data Collection
 6300 Problems in Fisheries Geography
 6400 Fluvial Geomorphology
 6401 Glacial Geomorphology
 6402 Coastal Geomorphology
 6410 Climatology
 6420 Quaternary Geography
 6430 Biogeography
 6500 Cultural Geography
 6600 Historical Geography
 6700 Political Geography
 6800 Urban Geography
 6821 Advanced Computer Mapping
 6900 Graduate Seminar in Regional Geography
 6990-95 Special Topics in Geography

29.17 Geology

See **Earth Sciences**.

29.18 Geophysics

See **Earth Sciences**.

29.19 History

Professor and Head of the Department

S. Cadigan

The degrees of Doctor of Philosophy and Master of Arts are offered in History by full-time or part-time study.

29.19.1 Program of Study

1. The Ph.D. Degree in History is offered in the following areas:
 - a. Canadian History
 - b. Maritime History
 - c. Newfoundland History
2. An applicant must hold either a Master's Degree in History or a Bachelor's Degree in History with first-class Honours or their equivalents as determined by the Head of the Department and the Dean.

3. All candidates must successfully complete History 7000 and 7001 in the first year of the program. The Supervisory Committee may require the candidate to complete additional graduate courses.
4. All candidates must demonstrate in accordance with regulations established by the School of Graduate Studies a reading knowledge of French before taking the comprehensive examination. On the recommendation of the Supervisory Committee a modern language other than French may be substituted. In addition, the Supervisory Committee may require a demonstrated reading knowledge of a second language other than French or English (or the substitute language).
5. Candidates will undertake supervised reading in fields prescribed by the Department. The Supervisors of these programs of reading, along with the thesis Supervisor, will comprise the student's Supervisory Committee. This reading will prepare the student for the comprehensive oral examination.
6. Candidates must submit a thesis proposal, deemed acceptable by the Supervisory Committee, to the Department before sitting the comprehensive examination.
7. Candidates will normally sit the comprehensive oral examination in the second year of the program.
8. Interested applicants are urged to consult with the Head of the Department on these prerequisites and other requirements before filing an application for admission.

29.19.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the Department will allow:

6000 Advanced Studies in Newfoundland History
 6010 Advanced Studies in Canadian History
 6020 Advanced Studies in the History of the United States
 6030 Advanced Studies in French History
 6040 Advanced Studies in British History
 6050 Advanced Studies in German History
 6060 Advanced Studies in North Atlantic History
 6070 Advanced Studies in Social History
 6075 Advanced Studies in Labour and Working Class History
 6080 Advanced Studies in Intellectual History
 6090 Advanced Studies in Women's History
 6095 Advanced Studies in Ethnohistory
 6100 Advanced Studies in Military History
 6105 Advanced Studies in Diplomatic History
 6110 Advanced Studies in Maritime History
 6120 Advanced Studies in Economic and Business History
 6125 Medical Science and Social Responsibility in Health Care: Aspects of Medical History (*Cross-listed as Medicine 6420*)
 6130 Quantification and Measurement in History
 6140-59 Research in Special Topics
 6160-79 Reading Courses (Special Topics)
 6190 Theory and Method
 6200 Masters Seminar I
 6999 Masters Research Paper (12 credit hours)
 7000 Ph.D. Seminar I
 7001 Ph.D. Seminar II

29.20 Interdisciplinary

Professor and Director

S. MacKinnon

The Degree of Doctor of Philosophy (Interdisciplinary) is offered by part-time and full-time study.

The **General Regulations** of the School of Graduate Studies and the regulations outlined below will apply.

29.20.1 Administration

1. The program shall be administered by a Director, together with the School of Graduate Studies Interdisciplinary Ph.D. Committee (ID Ph.D. Committee).
2. The program of study of each student will be guided for the duration of the program by a Supervisory Committee of either three (3) or five (5) faculty members, appointed by the Dean of Graduate Studies on the recommendation of the ID Ph.D. Committee at the time of admission.

In addition, the Director shall be an ex officio member of each Interdisciplinary Ph.D. Supervisory Committee.

Duties of this Committee shall involve supervising the overall program of study, including the recommendation of appropriate courses, the setting and scheduling of comprehensive examinations, the development of a research proposal, and the thesis-writing and final examination.

The Supervisory Committee is also responsible for recommending fellowship support to the ID Ph.D. Committee and to the Dean of Graduate Studies at the time of admission and throughout the student's program.

3. Normally, the "academic home" for the student is in the Department or faculty/school of the primary Supervisor.

29.20.2 Deadlines for Applications

1. The deadline for Fall admission is March 1 for commencement in September, October 1 for commencement in January, and February 1 for commencement in May. Students seeking admission to the program should start preparing their admission file well in advance of the application deadline.

Admissions shall be considered by the ID Ph.D. Committee and recommendations shall be made to the Dean of Graduate Studies.

29.20.3 Admission

1. Prospective students should normally hold a Master's Degree and have an excellent academic record. Applications for admission must include:

- a. Three letters of reference
- b. A detailed research proposal
- c. Letters expressing a commitment to the research project and to supervisory duties from three Memorial University faculty members, one of whom is prepared to assume the role of academic Supervisor or co-supervisor and at least one whose unit of primary responsibility is a Ph.D. granting Department.
- d. Letters of endorsement from the administrative heads of each of the units involved in the proposed program.
- e. A statement from the University Librarian indicating the adequacy of Library resources to satisfy the demands of the research program.

29.20.4 Program of Study

1. a. Students will normally be required to take 12-18 credit hours of courses to be determined by the Supervisory Committee. These must include at least one course from each participating discipline. Directed reading courses may be included to support the development of the thesis work.
- b. Where appropriate, extra language and/or methodology courses may be prescribed. See **Evaluation, Evaluation of Graduate Students**, 4. concerning language(s) requirement.
2. Comprehensives
The scope, format, and number of required comprehensive examinations shall be determined by the Supervisory Committee in consultation with the student and in accordance with the needs of his/her particular program of study. Students will be required to take a comprehensive examination after the completion of all required course work, which can be no later than the end of the seventh semester of study. Comprehensive examinations shall follow procedures in accordance with General Regulation, **Comprehensive Examinations, Ph.D. Comprehensive Examination**, with the exception of 2.
3. Thesis
 - a. A thesis proposal, including a working title, statement of purpose and research scope, outline of theoretical and methodological approach, working plan and preliminary bibliography must be submitted to the Supervisory Committee no later than the end of the fifth semester of study. If approved by the Committee, the proposal shall be recommended to the ID Ph.D. Committee for final approval.
 - b. Students must complete a thesis, examined and defended in accordance with General Regulation, **Theses and Reports** of the School of Graduate Studies. The thesis shall give evidence of the candidate's ability to develop independent and original research.

29.21 Linguistics

Professor and Head of the Department

M. MacKenzie

The degrees of Master of Arts and Doctor of Philosophy are offered in Linguistics.

29.21.1 Program of Study

1. The Degree of Doctor of Philosophy is offered in the following areas:
 - a. Languages in which the Department has demonstrated expertise, especially languages of the Newfoundland and Labrador Area.
 - b. Historical and Comparative Linguistics.
 - c. Language Variation and Language Contact.
2. In order to be admitted to the Ph.D. in Linguistics, a student shall normally hold a Master's Degree in Linguistics. In the case of a student who does not meet the above requirement but who holds a language-oriented Master's Degree, a program of additional linguistics courses, supplementary to those normally considered to be required in the Ph.D. program, may be required.
3. The program of each candidate must be approved by the Dean of Graduate Studies upon the recommendation of the Supervisory Committee in consultation with the Head of the Department.
4. Candidates who fulfill the requirement in Clause 2 and who otherwise possess the qualifications of Ph.D. candidates will embark on a program approved on an individual basis. This will normally include not less than 18 credit hours in graduate courses, at least 6 credit hours of which must be at the 7000-level.
5. Where needed, each program will include appropriate courses to ensure that the student will have completed 9 credit hours from graduate courses in each of two required fields selected from the following:
 - a. Phonetics and Phonology
 - b. Morphology and Syntax
 - c. Comparative and Historical Linguistics
 - d. Dialectology and Sociolinguistics
6. The comprehensive examination (see Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination** of the **General Regulations**) includes two written and two oral examinations. Students must meet all language requirements prior to undertaking their comprehensive examination.
 - a. The written examinations consist of two separate research papers. These papers will be submitted to the Examination Committee. At least one of the papers must be in one of the core areas of phonetics/phonology, morphology, syntax or semantics. The topic selected for each paper must obtain the prior approval of the Graduate Studies Committee of the Department. In each of these papers, candidates must demonstrate knowledge of the literature on the topic selected, general mastery of the discipline of linguistics and ability to undertake independent research.
 - b. The Examination Committee will examine the candidate orally, on each paper, within one month of submission. Questioning can be as wide-ranging as the Committee deems necessary to ensure that the student displays a thorough and comprehensive knowledge of the area in question.
 - c. The Examination Committee shall consist of the Head of Department (or delegate) who shall Chair the Committee, the Supervisor, the Dean of Graduate Studies (or delegate), and other members necessary to satisfy General Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination**, 2., who may normally include the members of the Supervisory Committee. If the Head of Department is also a member of the Supervisory Committee, an additional representative of the Department shall be appointed to chair the Examination Committee.

7. Initially, candidates must obtain approval for their Ph.D. thesis topics from the Graduate Studies Committee of the Department, in consultation with the Supervisory Committee. The thesis topic is normally selected before the end of the second full year in the program. Once the topic is approved, a more detailed thesis proposal must be presented to the Department in both written and oral format, and must receive formal Departmental approval prior to the writing of the thesis.
8. Proficiency in a language other than the candidate's first language will be required, as demonstrated by a minimum B grade in a second-year language course, or performance satisfactory to the Department in an arranged reading proficiency test. A structural knowledge of a non-Indo-European language is also required, as demonstrated by a minimum B grade in a field methods/language structure course or other performance satisfactory to the Department. Depending on the program, a reading knowledge of one or more additional languages may be required. Students must meet all language requirements before undertaking their comprehensive examinations.
9. All Ph.D. students are advised to consult the Linguistics department's Graduate Handbook for details on program requirements and for general information relating to the graduate program.

29.21.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of students, as far as the resources of the Department will allow. Full information is to be found in the Department's Graduate Brochure.

6050-54 Structure of a North American Aboriginal Language (Credit restriction: Except where an exemption is supplied by the Head of the Department, a student may not obtain credit for more than one course in the 6050-54 series. Students may not obtain credit for any of the previously offered 6010, 6011, 6020, 6021, 6030, 6031, 6040, 6041 in addition to a course in the 6050-54 series.)

6055-59 Structure of an Uncommonly-Taught Language (Credit restriction: Except where an exemption is supplied by the Head of the Department, a student may not obtain credit for more than one course in the 6055-59 series.)

6100 Issues in Morphosyntax (Credit may not be obtained for both Linguistics 6100 and the former 6001)

6110 Selected Topics in Transformational Grammar

6115 Topics in the Syntax of A Selected Language (Prerequisite: 6001 or 6110)

6150 Principles of Language Acquisition

6151 Selected Topics in Language Acquisition (Prerequisite: 6150)

6200 Generative Phonology

6201 Selected Topics in Phonology (Prerequisite: 6200)

6210 Sociolinguistics (Credit restriction: A student may not obtain credit for both 6210 or the former 6211)

6212 Selected Topics in Language and Gender

6220 Areal and Temporal Variations in Language

6300-09 Special Subjects

6350 General Romance Linguistics

6390 Franco-Canadian

6400 Comparative and Historical Linguistics

6401 Morphosyntactic Change (Prerequisite: 6400)

6403 Etymology (cross-listed as English 6403)

6410 Comparative Structure of a Selected Language Family (Prerequisite: 6011 or 6031 or 6403)

6420 English Dialectology I

6421 English Dialectology II

6430 Selected Topics in Linguistic Variation (Prerequisite: 6220 or the former 6211)

6500 Field Methods

6601 Modern Linguistic Theories

6700 Experimental Phonetics

6701 Selected Topics in Experimental Phonetics (Prerequisites: 6200, 6700)

6800 Selected Topics in Morphology

6880 Selected Topics in Semantics

7000 Seminar in Research Methods

7001 Analytical issues in Linguistics

7100 Topics in North American Native Languages (Prerequisites: a course from series 6050-6054 or the former 6011, 6031, 6041)

7200 Advanced Topics in Syntax (Prerequisites: 6110, plus either 6001 or 6115)

7400 Seminar in Comparative and Historical Linguistics (Prerequisite: 6400 or 6410)

7430 Seminar in Linguistic Variation (Prerequisite: 6430)

7800 Seminar in Morpho-semantics (Prerequisite: 6800)

7900-03 Special Topics in Linguistics

Note: *Appropriate equivalent credits may be given for courses taken at the Summer Institute of the Linguistic Society of America, or a similar institute. Students are encouraged to attend these institutes. They should, however, consult the Head of the Department as to what courses may be appropriate for credit.*

29.22 M.D.-Ph.D.

1. The M.D.-Ph.D. program is offered by full-time study to highly motivated students with an excellent academic record who wish to obtain an M.D. and a Ph.D., and whose academic excellence, research potential, and the suitability of the proposed research training environment is acceptable to the Program Admissions and Advisory Committee.
2. The purpose of the M.D.-Ph.D. program is to provide medical education, including clinical skills and training in health research.
3. The M.D.-Ph.D. program will be overseen by the Program Admissions and Advisory Committee (P.A.A.C.). The P.A.A.C. will be responsible for the recruitment and oversight of the program of highly qualified trainees.
4. The P.A.A.C. is composed of the M.D.-Ph.D. Program Director(s), a representative from the Faculty of Medicine, one or more faculty members representing the School of Graduate Studies and a senior M.D.-Ph.D student.
5. M.D.-Ph.D students are jointly enrolled in the M.D. program and the Ph.D. program. The student's Ph.D. program is overseen by the administrative head of the appropriate academic unit in which the student is enrolled. The M.D. program is overseen by the Assistant Dean, Undergraduate Medical Education, Faculty of Medicine.

29.22.1 Qualifications for Admission

1. To be admitted into the M.D.-Ph.D. program, applicants must first meet the admission requirements of both the M.D. and Ph.D. programs. Admission to the Ph.D. program shall be by the Dean of Graduate Studies on the recommendation of the head of the appropriate academic unit. Admission to the M.D. program is by the Dean of Medicine on the recommendation of the Assistant Dean, Admissions, Faculty of Medicine.

- Normally, students will enter the M.D.-Ph.D. program from the M.D. program after successful completion of the pre-clerkship phase or from the Ph.D. program after one or two years of the graduate program and acceptance into the M.D. program.

29.22.2 Program of Study and Research

- The program of study for the Ph.D. is described in the University Calendar entry for the student's chosen discipline. For the purposes of timing of the comprehensive examination, only the semesters in the Ph.D. component of the program will be counted.
- The program of study for the M.D. follows the General Regulations governing the M.D. Degree.
- During the Ph.D. component, students are expected to maintain clinical skills by arrangement with the Assistant Dean, Undergraduate Medical Education, Faculty of Medicine, and will be required to demonstrate competency in clinical skills before resuming full-time studies in the clerkship phase of the M.D. component.
- During the M.D. component (including the clerkship phase), students, where required, are expected to participate in seminars and journals clubs in their area of research specialization.
- The Ph.D. will be awarded to students in the M.D.-Ph.D. program on completion of all academic requirements appropriate to the Ph.D. Degree. The M.D. will be awarded to students in the M.D.-Ph.D. program on completion of all academic requirements appropriate to the M.D. Degree.

29.22.3 Evaluation

Failure to maintain academic standing in either the Ph.D. or M.D. components will lead to termination of the M.D.-Ph.D. program which will be annotated on the student's transcript. On failure of the M.D. component, the Dean of Graduate Studies may approve transfer to a Ph.D. program on the recommendation of the administrative head of the appropriate academic unit. On failure of the Ph.D. component, the Dean of Medicine may approve transfer to a M.D. program on the recommendation of the Assistant Dean of Undergraduate Medical Education.

29.22.4 Courses

See course listing under the regulations for the relevant Ph.D. program and also for the M.D. program in the General Regulations governing the M.D. degree.

29.23 Management

Professor and Dean

W. Zerbe

Associate Professor and Associate Dean (Academic Programs)

L. Bauer

Professor and Associate Dean (Research)

J. Parsons

The Degree of Doctor of Philosophy in Management is offered in the Faculty of Business Administration. The designation refers to management in the broad context. The Degree will offer specializations corresponding to functional areas in management. The Degree currently is offered with specializations in: (i) operations and information management, and (ii) organizational behaviour and human resources management.

The Degree of Doctor of Philosophy in Management is offered by full-time study to qualified candidates. The **General Regulations** of the School of Graduate Studies and the Degree Regulations of the Faculty of Business Administration outlined below, will apply.

29.23.1 Admission to the Ph.D. Program

Admission is limited and competitive. General qualifications for admission to the Ph.D. Programs at Memorial University of Newfoundland are set out under **General Regulations, Qualifications for Admission**. Applicants from all disciplines will be considered.

In addition, applicants must have completed the GMAT with a minimum score of 600 (or GRE with a combined score of 1100).

29.23.2 Supervisory Committee

Until a supervisory committee has been formed, the Ph.D. Program Director will be the designated advisor of each Ph.D. student. Each candidate will have a supervisory committee consisting of three or more members, at least two of whom shall be members of the Faculty of Business Administration. The thesis Supervisor shall be a doctorally qualified faculty member in the Faculty of Business Administration, Memorial University of Newfoundland, having a recent (past five years) research track record suitable to provide research supervision at the Ph.D. level. The supervisory committee will be appointed no later than the end of the first year of studies.

Students are encouraged to find a Supervisor within the first year of the program and, together with the Supervisor, find the remaining committee members by the time all required courses are completed.

29.23.3 Components of Study

29.23.3.1 Courses

Students are required to complete successfully a program of courses, normally over the first two years of the program. Students without an adequate background in the functional areas of business may be required to take additional breadth courses. Such determination will be made by the Ph.D. Admission Committee when a student is accepted into the program.

1. Required for all Specializations

Philosophy 6015 Theory of Knowledge
Business 9901 Approaches to Management Research

2. One of

Business 9902 Modelling Methods in Management Research
Business 9903 Quantitative Methods in Management Research*
Business 9904 Qualitative Methods in Management Research**
Business 9901 is to be completed before any of Business 9902, 9903, 9904 is attempted.

3. Graduate Research Integrity Program (non-credit)

*Alternatively, students may elect to take Education 6467 if Business 9903 is not offered in a particular year, on the approval of the Ph.D. Program Director.

**Alternatively, students may elect to take Education 6466 if Business 9904 is not offered in a particular year, on the approval of the Ph.D. Program Director.

Operations and Information Management (OIM) Specialization Courses

In addition to the above-noted courses required for all specializations, the following courses are required for the Operations and Information Management specialization:

Business 9910 Optimization
 Business 9911 Data and Process Models in Information Systems Development
 Business 9912 Probabilistic Models
 Business 9913 Human-Computer Interaction and Decision Support Systems
 Business 9914 Supply Chains: Models and Management
 Business 9915 Electronic Commerce
 Business 991A/B Seminar in Operations and Information Management Research A/B
 Business 9917 Special Topics in Operations Management
 Business 9918 Special Topics in Information Systems

Recommended Sequence for Operations and Information Management (OIM) Specialization Table

Semester	Courses
Year 1, Fall	Philosophy 6015 Theory of Knowledge BUSI 9901 Approaches to Management Research BUSI 9910 Optimization BUSI 9911 Data and Process Models in Information Systems Development
Year 1, Winter	BUSI 9902 (Modelling), 9903 (Quantitative), or 9904 (Qualitative) Methods in Management Research BUSI 9912 Probabilistic Models BUSI 9913 Human-Computer Interaction and Decision Support Systems Graduate Research Integrity Program (non-credit)
Year 1, Spring	Summer Research Project
Year 2, Fall	BUSI 9914 Supply Chain: Models and Management BUSI 9915 Electronic Commerce BUSI 991A Seminar in Operations and Information Management Research (Part A) Graduate Program in Teaching (Recommended (non-credit))
Year 2, Winter	BUSI 991B Seminar in Operations and Information Management Research (Part B) BUSI 9917 Special Topics in Operations Management BUSI 9918 Special Topics in Information Systems

Organizational Behaviour and Human Resources Management Specialization Courses

In addition to the above-noted courses required for all specializations, the following courses are required for the Organizational Behaviour and Human Resources Management specialization.

1. Required courses:

Business 9920 Foundations in Organizational Behaviour
 Business 9921 Foundations in Human Resources Management
 Business 9924 Current Issues in Organizational Behaviour
 Business 9925 Current Issues in Human Resources Management

Note: *Waivers shall not be granted in the Ph.D. program for previously completed course work at either the undergraduate or master's level.*

2. Four of:

Business 9922 Foundations in Industrial Relations
 Business 9923 Foundations in Organizational Theory
 Business 9926 Current Issues in Industrial Relations
 Business 9927 Current Issues in Organizational Theory
 Business 9928-9939 Special Topics in Organizational Behaviour/Human Resources Management
 Any other graduate course subject to the approval of the Supervisor

Recommended Sequence for Organizational Behaviour and Human Resources Management Specialization Table

Semester	Courses
Year 1, Fall	Philosophy 6015 Theory of Knowledge BUSI 9901 Approaches to Management Research BUSI 9920 Foundations of Organizational Behaviour BUSI 9921 Foundations of Human Resources Management
Year 1, Winter	BUSI 9902 (Modelling), 9903 (Quantitative), or 9904 (Qualitative) Methods in Management Research Business 9924 Current Issues in Organizational Behaviour Business 9925 Current Issues in Human Resources Management Graduate Research Integrity Program (non-credit)
Year 1, Spring	Summer Research Project
Year 2, Fall	Two of: BUSI 9922, 9923, 9926, 9927, 9928-9939** or any other graduate course subject to the approval of the Supervisor Graduate Program in Teaching (Recommended (non-credit))
Year 2, Winter	Two of: BUSI 9922, 9923, 9926, 9927, 9928-9939** or any other graduate course subject to the approval of the Supervisor

** Offerings subject to scheduling

29.23.3.2 Summer Research Project

During the first summer in the program, students will complete a research project under the supervision of a qualified faculty member in the area of specialization. Projects must be presented in the course BUSI 991B Seminar in Operations and Information Management Research during the second year of the program or an equivalent course in other specializations.

29.23.3.3 Comprehensive Examination

Students shall undertake a mandatory written comprehensive examination, following General Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination**, which sets out the procedures for the comprehensive examination.

In addition:

1. A candidate in the Ph.D. Program in Management shall normally take the written Comprehensive Examination by the end of the seventh semester of the program. The candidate must have successfully completed all required courses prior to writing the Comprehensive Examination. The scope of the Comprehensive Examination will be determined by the Examining Committee (as defined in General Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination**) under the guidance of the Supervisory Committee.
2. A list of topics/areas for the Comprehensive Examination will be provided to the student no later than three months prior to the date of the examination.
3. The written examination will take place in three phases over a one-week period.
4. Based on the results of the written examination, the Examining Committee may schedule a supplementary oral examination on any topics covered on the written examination. The oral examination request must be made to the Dean within two weeks of completion of the written examination. The oral examination, if any, must take place within six weeks of completion of the written examination.
5. The scheduling of the Comprehensive Examination will be initiated by the student's Supervisor who will notify the Dean of the Faculty of Business Administration. The date of the written examination will be determined by the Dean of the School of Graduate Studies. The student will be provided with written notice of the scheduled dates of the written examinations. In the case of oral examinations, requests will be initiated by the Examining Committee or the student (as described above in 4.) through the School of Graduate Studies.

29.23.3.4 Ph.D. Thesis Regulations

1. The candidate must submit a thesis proposal to all members of the Supervisory Committee for evaluation and approval by the end of the eighth semester of the program. Within one month of submitting the proposal, the Candidate will give a public oral presentation of the proposal, attended by the Committee. The presentation will provide the Committee and others in attendance with an opportunity to raise questions about the proposal research. Immediately following the presentation, the Supervisory Committee will meet to assess the proposal. Assessment will result in one of the following three outcomes: (1) accept; (2) accept with changes; or (3) reject. The results of this assessment will be provided to the student following the meeting. Assessments of accept with changes or reject will be accompanied by written comments within one week of the proposal presentation.
2. If the proposal is rejected, the candidate will be permitted a second proposal. This proposal must be submitted and deemed acceptable by the Supervisory Committee within four months of the original proposal presentation. Failure to resubmit within this time period will lead to termination of the candidate's program.
3. The Ph.D. thesis will constitute an independent and original research contribution.
4. The Ph.D. thesis will be evaluated according to the process established in General Regulation **Theses and Reports, Evaluation of Ph.D. Theses** governing the School of Graduate Studies.

29.24 Mathematics and Statistics

Professor and Head of the Department

E. Goodaire

The degrees of **Master of Applied Statistics** (see appropriate calendar entry), **Master of Science** and Doctor of Philosophy are offered in the Department of Mathematics and Statistics. The Masters' degrees are offered by full-time and part-time studies. The Department also participates in the interdisciplinary Ph.D. Program in Theoretical Physics.

29.24.1 Program of Study

The following regulations should be read in conjunction with the **General Regulations** of the School of Graduate Studies.

1. Candidates shall be assigned a supervisory committee consisting of the Supervisor (or Co-Supervisors) and at least two other members of faculty appointed by the Dean on the recommendation of the Head.
2. A candidate shall complete at least 6 credit hours in graduate courses in the area of specialization. Candidates not holding a Masters Degree shall, in addition, complete, or have already completed successfully, the course requirements for a Memorial University of Newfoundland Master's Degree in mathematics or in statistics, as appropriate. Any candidate may be required to take additional courses.
3. The Comprehensive Examination consists of two parts, called the "qualifying review" and the "intermediate review". Successful completion of both the qualifying and intermediate reviews constitutes successful completion of the Comprehensive Examination in the sense of General Regulation **Comprehensive Examinations**.
 - a. The **qualifying review** consists of written examinations and takes place as soon as the Supervisory Committee deems appropriate, but not later than the end of the candidate's third semester in the doctoral program. Its main purpose is to ensure that the candidate has a reasonably broad general knowledge of mathematics or of statistics, as appropriate.
 - b. The **intermediate review** consists of an oral presentation on the candidate's thesis topic followed by an oral examination based on the presentation although questions of a general nature relating to the field of specialization are also permitted. It must take place no later than the end of the candidate's seventh semester in the doctoral program. Its purpose is to ensure that the candidate has specialized knowledge in his/her chosen area sufficient to do original research of a high level.

More details concerning the Department's comprehensive examinations can be obtained from the Department.

29.24.2 Specific Regulations for the Ph.D. in Mathematics

A Master's Degree in mathematics or related area from a recognized university is normally required for entry into the Ph.D. program. Students holding a Bachelor's Degree (Honours or equivalent) in mathematics may be considered for direct admission into the Ph.D. program. Students currently registered in Memorial University of Newfoundland's M.Sc. program in mathematics may request a transfer into a Ph.D. program. Such transfer must be supported by the intended Ph.D. supervisory committee and the Graduate Studies Committee.

29.24.3 Specific Regulations for the Ph.D. in Statistics

A Master's Degree in statistics from a recognized university is normally required for entry into the Ph.D. program. Students currently registered in Memorial University of Newfoundland's MAS or M.Sc. program in statistics may request a transfer into a Ph.D. program. Such transfer must be supported by the intended Ph.D. supervisory committee and the Graduate Studies Committee.

In addition to general Departmental requirements, each candidate for the Ph.D. in statistics will be required to present at least one paper at a graduate seminar on a topic to be approved by his or her Supervisor.

Table of Credit Restrictions for Present Mathematics Courses with Former Mathematics Courses

(Credit may be obtained for only one course from each of the pairs of courses listed in this table.)

Present Course	Former Course	Present Course	Former Course
6323	6030	6212	6080
6321	6032	6310	6130
6322	6035	6330	6200
6340	6040	6331	6210
6341	6041	6332	6350
6342	6042	6312	6500

29.24.4 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

Mathematics

6100 Dynamical Systems
 6101 Modern Perturbation Theory
 6102 Mathematical Biology
 6104 Infinite Dimensional Dynamical Systems
 6110-6119 Special Topics in Applied Mathematics
 6120 Theoretical Fluid Dynamics
 6121 Functional Differential Equations
 6130 Introduction to General Relativity
 6160 Partial Differential Equations
 6201 Numerical Methods for Partial Differential Equations
 6202-6209 Special Topics in Numerical Analysis
 6210 Numerical Solution of Differential Equations (for Computational Science students only - required core course)
 6212 Numerical Methods for Initial Value Problems
 6300 Algebraic Topology I (Homology Theory)
 6301 Algebraic Topology II (Homotopy Theory)
 6302 Algebraic Topology III (Theory of Fibre Bundles)
 6304-6309 Special Topics in Topology
 6310 Functional Analysis
 6311 Complex Analysis
 6312 Measure Theory
 6313 Functional Analysis II
 6315-6319 Special Topics in Analysis
 6320 Group Theory
 6321 Ring Theory
 6322 Nonassociative Algebra

6323 Homological Algebra
 6324-6329 Special Topics in Algebra
 6330 Analytic Number Theory
 6331 Algebraic Number Theory
 6332 Point Set Topology
 6340 Graph Theory
 6341 Combinatorial Design Theory
 6342 Advanced Enumeration
 6343-6349 Special Topics in Combinatorics
 6351 Advanced Linear Algebra
 6910 Topology Seminar
 6940 Analysis Seminar
 6950 Algebra Seminar

Statistics

6500 Probability (*credit restricted with former 6586*)
 6503 Stochastic Processes
 6505 Survival Analysis
 6510 Mathematical Statistics
 6520 Linear Models
 6530 Generalized Linear Longitudinal Mixed Models
 6540 Time Series Analysis
 6545 Statistical Computing
 6550 Nonparametric Statistics
 6560 Continuous Multivariate Analysis
 6561 Categorical Data Analysis
 6563 Sampling Theory
 6570-6589 Selected Topics in Statistics and Probability (excluding 6586)
 6930 Statistics Seminar

29.24.5 Specific Regulations for the Ph.D. in Theoretical Physics

The **Ph.D. in Theoretical Physics** is an interdisciplinary program offered jointly with the Department of Physics and Physical Oceanography. The regulations for this program are described under the **Regulations Governing the Degree of Doctor of Philosophy - Theoretical Physics**

29.25 Medicine

Professor and Dean

J. Rourke

Professor and Interim Associate Dean

D. McKay

Associate Professor and Acting Assistant Dean

D. Gustafson

The Faculty of Medicine offers the degree of Doctor of Philosophy in seven program areas: Cancer and Development, Cardiovascular and Renal Sciences, Clinical Epidemiology, Community Health, Human Genetics, Immunology and Infectious Diseases and Neurosciences. Each program area has a Co-ordinator who is responsible for communicating the interests of the program to the Faculty of Medicine Graduate Studies Committee and participate in the admission of graduate students into the graduate program in Medicine. The Faculty of Medicine also offers the opportunity for students registered in the Doctor of Medicine (M.D.) program to obtain a Ph.D. in a combined and integrated M.D.-Ph.D. program.

29.25.1 Qualifications for Admission

The admission requirements for the Ph.D. are as given under the **General Regulations** governing Ph.D. degrees.

29.25.2 Program of Study and Research

1. The program of study for a Ph.D. Degree is the responsibility of the supervisory committee composed of a Supervisor and at least two other faculty members.
2. It is the responsibility of the supervisory committee to meet regularly (at least annually) with the student and to provide guidance at all stages of the candidate's program. An annual report prepared by the Supervisor and signed by the student and all members of the committee is required to be submitted to the Assistant Dean of Research and Graduate Studies (Medicine).
3. Graduate Students are expected to participate in Faculty of Medicine seminars and journal clubs, for some of the program areas these are available as required courses.
4. Course requirements are set by each of the program areas and are described under Program Requirements. Some supervisory committees may require some students to successfully complete specified course work.
5. Graduate Students in the Ph.D. degree are required to successfully complete the comprehensive examination before the end of the seventh semester. The comprehensive examination consists of both written and oral components and is in accordance with the **General Regulations** governing Ph.D. degrees.
6. Graduate students in the Ph.D. degree must complete an original piece of research, a written dissertation which must be successfully defended in an oral examination in accordance with the **General Regulations** governing Ph.D. degrees.

29.25.2.1 Program Areas

1. Cancer and Development
 - a. The graduate program in Cancer and Development offers study in fundamental cell and molecular biological areas including viral oncogenesis, growth factors and oncogenes in developmental models, programmed cell death and drug resistance.
 - b. Program Requirements: Students are required to participate in the Seminar Series (MED 6410-6413).

2. Cardiovascular and Renal Sciences
 - a. The graduate program in Cardiovascular and Renal Sciences enables students to pursue research and academic studies in selected topics including hypertension and stroke, neural and endothelial control of vasculature and blood pressure as well as physiological mechanisms promoting heart failure. The faculty participating in the program consists of basic cardiovascular scientists and renal clinicians. Teaching within the program is integrated with the M.D. program.
 - b. Program Requirements: Students are required to successfully complete MED 6140 if this course has not been previously taken. Students are required to present their thesis research to the Cardiovascular and Renal Sciences group.
3. Clinical Epidemiology
 - a. The program in Clinical Epidemiology is aimed at university graduates intending a career in health services, faculty members seeking advanced training in clinical epidemiology, medical doctors and health care professionals interested in health care delivery research.
 - b. Program Requirements: Students are required to successfully complete all of the following courses if they have not been previously completed: MED 6095, MED 6262 or MED 6200, MED 6250, MED 6255 and MED 6260. Students are required to take the Ph.D. Seminar Series (MED 6410-6413).
4. Community Health
 - a. The graduate program in Community Health enables students to pursue research and academic studies in selected topics. Students may specialize in one of the following three streams: epidemiology and biostatistics; health services and policy research; or social justice and equity in health.
 - b. Program Requirements: Coursework as defined by the Supervisory Committee and this would normally include the Ph.D. Seminar Series (MED 6410-6413).
5. Human Genetics
 - a. The graduate program in Human Genetics will enable students to pursue academic studies and research in a number of areas of genetics including cancer genetics, genetic epidemiology, gene mapping, medical genetics, birth defects and population genetics. Faculty members from all three divisions of the Faculty of Medicine (Biomedical Sciences, Community Health and Clinical Sciences) participate in the program.
 - b. Program Requirements: Students are required to take the Genetics Seminar Series (MED 6410-6413).
6. Immunology and Infectious Diseases
 - a. The Immunology and Infectious Diseases group has an interdisciplinary character and consists of faculty from biomedical science and oncology research. The graduate programs are designed to provide individualized training oriented towards basic research and a solid scientific background in the discipline of immunology and infectious diseases.
 - b. Program Requirements: Students are required to successfully complete three core courses if they have not been previously completed: Immunology I (MED 6127), Immunology II (MED 6128) and Advanced Immunological Methods (MED 6130). Students are required to attend, for credit, and participate in the Immunology and Infectious Diseases Seminar Program (MED 6410-6413).
7. Neurosciences
 - a. The Neuroscience Program offers graduate studies in an interdisciplinary setting with the core faculty in the Division of BioMedical Sciences but also including faculty from the Department of Psychology in the Faculty of Science. Graduate students may pursue research in a number of specialty areas including the physiological basis of learning and memory, stroke and neuroplasticity, neuroregeneration, signal transduction mechanisms, neuronal circuitry and membrane physiology. The Neuroscience Program is a Chapter of the Society for Neuroscience.
 - b. Program Requirements: Normally students in the Ph.D. program are required to complete two graduate level courses in Neuroscience, one of which is to be Systems Neuroscience (MED 6196). Course selection is made on the recommendation and advice of the supervisory committee. Students are expected to attend and participate in the activities of the neuroscience group including the weekly seminar and journal club.

29.25.2.2 Courses

For a list of courses offered by the Faculty of Medicine refer to **Courses** offered for the Master of Science in Medicine.

29.26 Pharmacy

Associate Professor and Dean

L.R. Hensman

The Degree of Doctor of Philosophy in Pharmacy is offered to qualified candidates normally by full-time study. The **General Regulations** of the School of Graduate Studies of Memorial University of Newfoundland outlined in the current Calendar, and the Degree Regulations of the School of Pharmacy outlined below will apply. Every candidate in graduate studies shall comply with the **General Regulations**, Degree Regulations and all additional requirements of the School of Pharmacy.

29.26.1 Qualifications For Admission

1. Admission to the Ph.D. program is limited and competitive. Applicants must have completed an M.Sc. Degree in Pharmacy, or its equivalent in a related discipline, from a university of recognized standing.
2. Other students may be considered for admission to a Ph.D. provided that they have been registered in a M.Sc. Pharmacy program for a minimum of 12 months, and have demonstrated to the satisfaction of the Graduate Studies Committee of the School of Pharmacy an ability to pursue research at the doctoral level. Students wishing to transfer from the M.Sc. to the Ph.D. will have completed 6 credit hours. Prior to admittance to the Ph.D. program, a written thesis proposal will be submitted for assessment by the Supervisory Committee plus one additional faculty member. The recommendation of this Committee will be forwarded to the Graduate Studies Committee of the School of Pharmacy.
3. On admission to the program, a Supervisory Committee shall be appointed in accordance with General Regulation **Supervision** governing the School of Graduate Studies.

29.26.2 Program of Study and Research

1. As a minimum, each candidate shall successfully complete 6 credit hours as well as Pharmacy 6999 (Pharmacy Research Seminar). A minimum grade of 65% will be required in each course. Candidates shall complete additional undergraduate courses in Pharmacy

or other related areas where the Supervisory Committee considers there to be a deficiency in the academic record. Candidates may select these courses in consultation with the Supervisory Committee. However, it will be the primary responsibility of the Supervisory Committee to ensure that deficiencies in the academic record are rectified.

- All candidates must submit a thesis proposal to the Supervisory Committee for approval no later than the second semester of study after admission to the program.
- All candidates must complete a comprehensive examination on or before the end of the sixth semester of study after admission to the program. The comprehensive examination will consist of two components: a written examination and an oral examination. The oral examination will normally be held no later than two weeks after successful completion of the written examination.
- A Comprehensive Examination Committee shall be appointed in accordance with General Regulation **Comprehensive Examination**. The Committee will be responsible for preparing the questions for the written and oral examinations and evaluating the candidate's performance in the subject area. The Committee will consist of the Dean of Graduate Studies (or delegate), the Supervisor, and three other members, one of whom may be a member of the Supervisory Committee. All shall be voting members of the Committee except the Dean of Graduate Studies (or delegate).
- Successful completion of the Ph.D program will require formal examination of the written thesis and an oral defence of the research, as prescribed in the General Regulation **Theses and Reports**. Final approval of the thesis shall be the responsibility of the School of Graduate Studies.

29.26.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates as far as the resources of the School will allow. Permission of the instructor and the Graduate Studies Committee of the School of Pharmacy is required for admission to any graduate Pharmacy course.

6000 Medicinal Chemistry
 6001 Advanced Physical Pharmacy
 6002 Dosage Form Design and Novel Drug Delivery Systems
 6003 Pharmacokinetic Modelling
 6004 Principles of General Pharmacology
 6005 Toxicology of Therapeutic Agents and Chemicals
 6100-6104 Special Topics Courses
 6999 Pharmacy Research Seminar

29.27 Physics and Physical Oceanography

Professor and Head of the Department

J. Whitehead

The following Departmental Regulations are supplementary to the **General Regulations** governing the M.Sc. and Ph.D. degrees. A thorough familiarity with the latter Regulations should be regarded as the prerequisite to further reading in this section.

The Department of Physics and Physical Oceanography compiles, and regularly reviews, a brochure which contains reasonably detailed descriptions of currently active research projects, as well as a comprehensive listing of recent research publications, and other material which may be of interest to prospective graduate students.

29.27.1 Program of Study

The Degree of Doctor of Philosophy (Ph.D.) is offered in Atomic and Molecular Physics, in Physical Oceanography, in Condensed Matter Physics and in Theoretical Physics.

- A program of study for the Ph.D. Degree in Atomic and Molecular Physics, Condensed Matter Physics or Physical Oceanography shall normally include a minimum of 9 graduate credit hours, beyond those required for the M.Sc. Degree. However, depending on the student's background and area of specialization, more or fewer graduate and/or undergraduate courses may be required.
- A Comprehensive Examination (as prescribed under General Regulation **Comprehensive Examinations**) shall be an oral one, and may include the presentation of a written research proposal.
- The **Ph.D. Program in Theoretical Physics** is an interdisciplinary program offered jointly with the Department of Mathematics and Statistics. The regulations for this program are described under the **Regulations Governing the Degree of Doctor of Philosophy - Theoretical Physics**

29.27.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6000 Condensed Matter Physics I
 6001 Condensed Matter Physics II
 6002 Superconductivity
 6003 Path Integral Techniques in Condensed Matter Physics
 6010-19 Special Topics in Condensed Matter Physics
 6040 Biophysics
 6060-69 Special Topics in Interdisciplinary Areas
 6200 Nonlinear Dynamics
 6308 Ocean Dynamics I
 6309 Ocean Dynamics II
 6310 Physical Oceanography
 6313 Physical Fluid Dynamics
 6314 Field Oceanography
 6315 Polar Oceanography
 6316 Ocean Measurements and Data Analysis
 6317 Ocean Acoustics
 6318 Numerical Modelling
 6319 Climate Dynamics
 6320 Turbulence
 6321 Coastal Oceanography
 6322 Stratified Fluids

6323 Stability Theory
 6324 Models in Ocean Ecology
 6360-69 (excluding 6363) Special Topics in Physical Oceanography
 6363 Laboratory Experiments in Geophysical Fluid Dynamics
 6400 Statistical Mechanics
 6402 Theory of Phase Transitions
 6403 Stochastic Processes, Time-Dependent and NonEquilibrium Statistical Mechanics
 6502 Electrodynamics
 6720 Theory of Molecules
 6721 Molecular Spectroscopy
 6722 Light Scattering Spectroscopy
 6730 Molecular Theory of Liquids and Compressed Gases
 6740 Physics of Atomic Collisions
 6760-69 Special Topics in Atomic and Molecular Physics
 6800 Group Theory
 6810-19 Special Topics in Theoretical and Mathematical Physics
 6850 Quantum Mechanics I
 6851 Quantum Mechanics II
 6900 Techniques in Experimental Condensed Matter Physics
 6910-19 Special Topics in Experimental and Applied Physics

Table of Credit Restrictions - Physics and Physical Oceanography

(Credit may be obtained for only one course from each of the pairs of courses listed in this table.)

Present Course	Former Course	Present Course	Former Course
6000	6050	6318	6304
6001	6051	6321	6303
6002	6822	6321	6304
6003	6820	6323	6303
6200	6821	6402	6401
6308	6312	6403	6401
6309	6311	6403	6824
6313	6301	6502	6500
6316	6302	6502	6501
6317	6823	6722	6790

Members of the Department carry out research in several areas of experimental and theoretical physics, including atomic and molecular physics, condensed matter physics, physical oceanography, theoretical geophysics and applied nuclear physics. In atomic and molecular physics, there are experimental programs in collision-induced infrared absorption spectroscopy, electron emission spectroscopy of simple molecules, molecular ions and free radicals, laser-induced fluorescence spectroscopy, and Raman spectroscopy, and theoretical work on atomic and molecular collisions. The work in condensed matter physics includes experimental programs in solid state nuclear magnetic resonance on systems of biophysical interest, Raman spectroscopy of lipid bilayers and membranes, studies of phase transitions using Brillouin and Raman spectroscopy, studies of instabilities and pattern formation in simple fluid dynamical systems, and spectroscopic studies of molecular crystals. Theoretical condensed matter physics research involves studies of magnetism, superconductivity, and the statistical mechanics of polymers and lipid bilayers. The Physical Oceanography group carries out field and laboratory research on several projects which take advantage of Newfoundland's unique oceanographic environment, using acoustic and other remote sensing techniques. These include studies of circulation on the Newfoundland and Labrador shelves, Labrador current dynamics, fjord dynamics, submarine canyons and sediment transport dynamics in the nearshore zone and on the shelf. Theoretical oceanographic studies involve the modelling of ocean circulation, gravity wave phenomena and other aspects of ocean dynamics. Research in theoretical geophysics is concentrated on whole-Earth dynamics, with special emphasis on the physics of the liquid core (the Earth's "third ocean") as inferred from its wave spectrum and the associated momentum transfer to the deformable solid parts of the Earth. In nuclear physics, research is done on the atmospheric concentrations of radioactive elements and on dosimetry for medical applications.

Note: For Geophysics, see **Earth Sciences**.

29.28 Psychology

Professor and Head of the Department

I. Neath

The Degree of Master of Science (M.Sc.) is offered in Experimental Psychology. Interested students should also see the **Master of Science in Cognitive and Behavioural Ecology**. The Degree of Doctor of Philosophy is offered in Experimental Psychology. Interested students may wish to consult the section in the Calendar describing the **Doctor of Philosophy in Cognitive and Behavioural Ecology program**.

29.28.1 Admission

1. All applicants are required to submit results from the General section of the Graduate Record Examinations.
2. At least one letter of reference should come from someone who is familiar with the applicant's research capability.

29.28.2 Program of Study

1. An applicant must hold either a Master's Degree or an Honours Bachelor's Degree with first class standing to be considered for admission. The program of study will be specified at the time of admission. Decisions on (a) whether to include courses in the program, and if so, (b) which specific courses are to be included will be based on the student's background and the proposed thesis

topic.

2. Comprehensive Examination

The Ph.D. comprehensive in Experimental Psychology shall be taken during the first year of the student's program. The examination will consist of two parts: (1) an essay, the topic of which is different from the subject of the thesis, and (2) an oral examination which tests the candidate's ability to integrate the essay into the broad area of Psychology. The essay topic will be assigned by the Examining Committee in consultation with the student and Supervisor. The essay should not be a précis of the literature, but a critical appraisal of a subject. This should identify important unresolved issues, and where possible suggest solutions to them.

29.28.3 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6000 Advanced Statistics in Psychology
 6001 Research Design
 6010 Colloquium Series in Psychology (repeatable, non-credit)
 6100-6130 Special Topics in Experimental Psychology
 6200 Learning I
 6201 Learning II
 6203 Behavioural Pharmacology
 6210 Behavioural Analysis of Toxins
 6351 Behavioural Ecology and Sociobiology (Cross-listed as CABA 6351)
 6400 Theory and Methods in Social Psychology
 6401 Social Cognition
 6402 Group Processes
 6403 Program Evaluation and Applied Research
 6404 Project in Applied Social Psychology NOTE: This course is open only to students in the Master of Applied Social Psychology
 6500 Developmental Psychology I
 6501 Developmental Psychology II
 6502 Developmental Changes During Old Age
 6700 Perception
 6710 Human Information Processing
 6720 Human Memory
 6800 Behavioural Neuroscience I
 6801 Behavioural Neuroscience II
 6810 Psychometrics
 6910 Personality
 6990 Doctoral Seminar I
 6991 Doctoral Seminar II
 6992 Doctoral Seminar in Cognitive and Behavioural Ecology (Cross-listed as CABA 6992)
 699A/B Core Graduate Seminar in Psychology (3 credit hours).

29.29 Social Work

Professor and Dean

A. Al-Krenawi

29.29.1 Program of Study

The degrees of Master of Social Work and Doctor of Philosophy are offered in Social Work.

Course work commences in the Spring Semester and is completed over five semesters. The program includes two Spring Semester residencies, at which time students must attend on a full-time basis, and Fall and Winter semester courses which can be taken on or away from campus.

1. An applicant for admission to the Ph.D. program in Social Work must hold a Master's Degree in social work, or equivalent professional social work Degree as determined by the Graduate Studies Committee of the School of Social Work. All applicants should also have a minimum of three years post-B.S.W. practice experience.
2. All Ph.D. students in the social work program must complete at least 24 credit hours in regulation graduate courses. These include:
 - a. 6 credit hours in foundation courses (7010 and 7020)
 - b. 6 credit hours in advanced practice courses (7310, 7320); or 3 credit hours in advanced practice courses (7310) and 3 credit hours on social work education (7510)
 - c. 9 credit hours on research (7411, 7421 and 7431)
 - d. 1 internship chosen from the Internships on Advanced Social Work Practice (7910), Social Work Education (7920) or Applied Social Work Research (7930).
3. Comprehensive Examination
 - a. A candidate registered in a Ph.D. program in Social Work shall normally take the Comprehensive Examination no later than the seventh semester in the program. Prior to proceeding to the Comprehensive Examination, candidates must have completed all required course work and the internship.
 - b. The Examination Committee shall be appointed by the Dean of Graduate Studies on the recommendation of the Dean (School of Social Work). It shall consist of:
 - i. the Ph.D. Program Co-ordinator who will serve as representative of the Dean of the School of Social Work and who shall occupy the Chair
 - ii. the candidate's Supervisor
 - iii. the Dean of Graduate Studies or delegate
 - iv. three other members recommended by the Dean of the School of Social Work. One of these normally will be on the candidate's Supervisory Committee.

Including the Supervisor, no more than two members of the Examination Committee may be nominated from the candidate's Supervisory Committee. All members of the Examination Committee, including the Chair, but excluding the Dean of Graduate

Studies or delegate, shall be voting members.

- c. The Ph.D. Comprehensive in Social Work will consist of a written paper which has two main parts. The first part will contextualize the student's substantive area through a comprehensive analysis and discussion of its place in and development from social work theory and the profession's history. This part should demonstrate a comprehensive understanding of competing theoretical frameworks and orientations in social work and should demonstrate appreciation for historical developments generally as well as specifically to the student's substantive area of interest. The second part of the paper will focus specifically on the student's substantive area. In consultation with the Examination Committee, the student will identify an area of empirical research that may be undertaken and will prepare a written statement that includes: an introduction and formulation of at least two related research questions; a literature review that is consistent with these questions, which presents a critical evaluation of the literature, and that synthesizes the literature into the student's own theoretical framework; two competing research designs for answering the research question and a critical compare and contrast that leads to an argument for one design over the other. The focus and content of the written work will be defined by the Examination Committee in consultation with the student, and will be approved by the Ph.D. Program Co-ordinator in the School of Social Work. The written product shall be no less than 50 pages and not more than 75 pages. It will be orally defended. The student shall have up to one semester (13 weeks) to submit the paper.
 - d. The Ph.D. examination procedure shall be initiated by the candidate's Supervisor who will notify, in writing, the Dean (School of Social Work) of the candidate's readiness. The candidate's Examination Committee will then be appointed according to section 3.b. (above).
 - e. Following the oral defence, the Examination Committee shall meet *in camera* to arrive at its conclusions. Evaluation of the candidate will be based on the following criteria:
 - i. demonstration of knowledge of social work theory, research, and issues relevant to the topic of inquiry in both the written and oral presentation.
 - ii. coherency of oral presentation and written paper (i.e. conceptualization, cogent argumentation, sufficient referencing of statements, clear writing style).
 - f. The Chair shall report the results of the examination to the Dean of Graduate Studies in accordance with General Regulation **Comprehensive Examinations, Ph.D. Comprehensive Examination, 4.**
4. Ph.D. Thesis
- a. A Supervisory Committee will be appointed for each student as indicated under the General Regulation **Supervision.**
 - b. The candidate must submit a thesis proposal to the Supervisory Committee based on her/his own interest, and normally the proposal must be approved by the end of the eighth semester of the program. The proposal will be circulated to the Supervisory Committee for critical evaluation. The Chairperson of the Supervisory Committee will inform the candidate within one month of its acceptance, rejection, or acceptance with recommended changes.
 - c. If the proposal is not acceptable, the candidate will normally be permitted a second attempt. The revised proposal must be submitted within a semester. Failure to resubmit within this time period will lead to termination of the candidate's program.
 - d. The thesis shall give evidence of the candidate's ability to carry out independent and original research, develop the necessary theoretical and methodological framework and analyses and present the findings in a scholarly manner.

29.29.2 Courses

The following courses that are offered during the spring semester residency will be offered every other year, as far as the resources of the School will allow:

- 7010 Philosophical and Historical Base of Social Work Practice (S*)
- 7020 Critical Thinking for Social Work Practice (S)
- 7310 Tutorial on Field of Practice (F** or W***)
- 7320 Tutorial in Advanced Social Work Practice (S)
- 7411 Philosophy of Science and Research Design (S)
- 7421 Qualitative Data Analysis (S)
- 7431 Quantitative Data Analysis (S)
- 7510 Social Work Education (S)
- 7910 Internship on Advanced Social Work Practice (F)
- 7920 Internship on Social Work Education (F)
- 7930 Internship on Applied Social Work Research (F)

*S = Spring Semester, **F = Fall Semester, ***W = Winter Semester

29.30 Sociology

Associate Professor and Head of the Department

K. Stanbridge

The Doctor of Philosophy (Ph.D.) is offered in Sociology by full-time and part-time study. Graduate courses are taught as tutorials or small seminars.

29.30.1 Program of Study

1. The Ph.D. degree in Sociology is offered in accordance with **General Regulations** and current department strengths.
2. To be admitted to the program an applicant must have completed either a Master of Arts or Master of Philosophy Degree or hold an equivalent qualification.
3. All Ph.D. candidates must complete a minimum of 6 credit hours in graduate courses in sociology, including Sociology 6150 Social Theory and Sociology 6040 Methods of Sociological Research, if these or equivalent courses have not been taken previously. The supervisory committee in consultation with the Head or Graduate Officer will determine which additional courses, if any, may be required to ensure that candidates undertake appropriate course work in their area of research.
4. Proficiency in a second language will be required when the candidate's supervisory committee determines that knowledge of this second language is necessary for the purpose of the proposed doctoral research.
5. A written comprehensive examination, which may be followed by a supplementary oral examination, shall be completed by full-time students no later than the end of the second year of the program.

Normally, part-time students shall take the examination within one year of the completion of prescribed courses. In accordance with

General Regulations, candidates must demonstrate knowledge of their special areas of research within the context of the discipline of Sociology. The examination shall consist of three parts: social theory, research methods, and a special area.

- No more than two years after having been admitted to the program the candidate must submit a thesis proposal that is considered satisfactory by the Supervisory Committee.

29.30.2 Courses

A selection of the following graduate courses will be offered to meet the requirements of candidates, as far as the resources of the Department will allow:

6040 Methods of Sociological Research
 6090-94 Special Area in Sociology
 6120 Social Organization
 6130 Social Stratification
 6140 The Community
 6150 Social Theory
 6160 Theory Construction and Explanation in Sociology
 6240 Sociology in Medicine
 6280 Social and Economic Development
 6300 Maritime Sociology
 6310 Political Sociology
 6320 Gender and Society
 6330 Science and Technology
 6340 Comparative North Atlantic Societies
 6350 Environmental Sociology
 6360 Sociology of Work
 6370 Feminist Theory and Methods
 6380 Women, Nature, Science and Technology (cross-listed as Women's Studies 6380)
 6390 Sociology of Culture
 6610 Socialization
 6620 Current Topics in Social Behaviour
 6880 Sociology Graduate Seminar

29.31 Theoretical Physics

Board of Studies

Dr. I. Booth, Department of Mathematics and Statistics - Chair
 Dr. C. Radford, Department of Mathematics and Statistics
 Dr. J. Whitehead, Department of Physics and Physical Oceanography
 Dr. I. Afanassiev, Department of Physics and Physical Oceanography

29.31.1 General Information

- The Theoretical Physics Program is an interdisciplinary Doctor of Philosophy program offered jointly by the Department of Mathematics and Statistics and the Department of Physics and Physical Oceanography. It is broadly based and includes several subdisciplines with the common denominator that each applies advanced mathematical techniques to the study of physical problems. The subdisciplines include, though are not necessarily limited to, theoretical astrophysics, general relativity, partial differential equations of mathematical physics, quantum mechanics, classical and quantum field theory, theoretical condensed matter physics, many-body theory, advanced classical mechanics and non-linear processes, and theoretical and geophysical fluid mechanics.
- The program is administered by the Board of Studies which is appointed by the Dean of Science in consultation with those faculty members active in the program. The Board of Studies will consist of two members from the Department of Physics and Physical Oceanography and two members from the Department of Mathematics and Statistics. The Program Chair is elected by the Board of Studies and appointed by the Dean of Science. Responsibilities of the Board include making recommendations to the School of Graduate Studies concerning admissions to the program, determining course requirements, and administering comprehensive exams. It also determines minimum levels of funding, administers the School of Graduate Studies and Graduate Teaching Assistant budgets, and monitors students' annual progress through the submission of annual supervisory committee reports.

29.31.2 Program of Study

The following regulations should be read in conjunction with the **General Regulations**:

- A program of study for the Ph.D. Degree in Theoretical Physics shall normally include a minimum of 9 graduate credit hours in courses offered by the Department of Mathematics and Statistics and/or the Department of Physics and Physical Oceanography. The courses will be determined by the student's supervisory committee in consultation with the Program Chair and approved by the Board of Studies. In special circumstances more or fewer graduate courses and/or undergraduate courses may be required.
- Students are required to pass a single Comprehensive Examination as prescribed under **Comprehensive Examinations, Ph.D. Comprehensive Examination**. This shall be an oral one, and may include the presentation of a written research proposal.
- The most important requirement is the writing of a doctoral thesis which demonstrates the student's ability to independently and originally attack and solve a significant problem in theoretical physics. The thesis must definitively advance the subject which it treats.

30 Regulations Governing the Degree of Doctor of Psychology

Administrative Committee

Dr. K. Hadden, Department of Psychology - Director
 Dr. C. Arlett, Department of Psychology
 Ms. P. Button, Graduate Student Representative
 Ms. B. Cater, Eastern Health
 Dr. O. Heath, University Counselling Centre
 Dr. G. Hurley, University Counselling Centre
 Dr. J. Spiegel, Association of Newfoundland Psychologists

The Doctor of Psychology (Psy.D.) degree in clinical psychology is offered by the Department of Psychology in partnership with the University Counselling Centre. This program is designed to prepare clinical psychologists to provide a variety of psychological services to individuals, families and communities.

30.1 Administration

1. The Director is appointed by the Head of the Psychology Department following a consultative process that includes the faculty most directly associated with the Psy.D. program.
2. The Psy.D. Administrative Committee consists of the Director, representatives from academic units involved in the program, and a representative from the Association of Newfoundland Psychologists. The Psychology Department Head, on the recommendation of the Director, appoints Committee members.
3. The Psy.D. Administrative Committee is chaired by the Director, and is the main body for developing and monitoring policy, procedures, and program content. The administrative committee makes recommendations concerning admission and termination, financial support, thesis and comprehensive committees, and thesis topics and examiners. The Committee oversees individual student programs of study and monitors their annual progress.

30.2 Admission Criteria

1. Students with Master's level degrees who wish to be considered for the program must have completed the undergraduate degree in Psychology and the undergraduate course requirements described below.
2. Applicants are required to have an undergraduate Honours degree in psychology that includes senior courses in each of the following areas: biological bases of behaviour, cognitive-affective bases of behaviour, social bases of behaviour, individual behaviour, and historical foundations of psychology, as well as an Honour's thesis. Students will only be admitted on a full-time basis and must start their program in the Fall semester.
3. Admission to the program is competitive. Applicants will be ranked according to academic aptitude, personal and interpersonal competence, clinical and professional potential, and availability of a supervisor. The application shall include academic transcripts, results of the Graduate Record Examination (verbal, quantitative and analytical subtests), three letters of recommendation and a statement of interests and objectives. One letter of recommendation must specifically address the suitability of the applicant for clinical work. Applicants who are short-listed will be interviewed, either in person or via telephone. Work experience, research experience, extra-curricular activities, and clinically relevant public service will be taken into consideration.

30.3 Program of Study

30.3.1 Comprehensive Examination

The Psy.D. comprehensive exam, consisting of a written and an oral component, shall be taken during the third year of the program. The exam is intended to demonstrate clinical application of the knowledge acquired through course work and practica. The comprehensive exam will be administered according to the guidelines prescribed in the University Calendar for Ph.D. comprehensive examinations.

30.3.2 Thesis

Students will complete a thesis that is applied in nature and relevant to the practice and science of clinical psychology and the communities it serves. The School of Graduate Studies **General Regulations, Evaluation of Ph.D. and Psy.D. Theses** concerning evaluation of Ph.D. theses will be followed.

30.3.3 Predoctoral Internship

All students will be required to complete a twelve-month, 1750 clock-hour predoctoral internship.

Archived Previous Calendar Available at:
Current University Calendar University of New Brunswick
<https://www.mun.ca/iniversity/calendar>

Table I - Doctor of Psychology (Psy.D.) Degree Program

Year 1 Fall Semester	Psychology 6000 Advanced Statistics Psychology 6610 Principles of Effective Relationships Psychology 6611 Ethics of Professional Practice Psychology 6620 Principles of Adult Assessment and Diagnosis Psychology 7010 Practicum in Ethics and Relationship Skills
Year 1 Winter Semester	Psychology 6001 Research Design Psychology 6612 Adult Psychopathology Psychology 6621 Principles of Child Assessment and Diagnosis Psychology 7020 Practicum in Assessment and Diagnosis
Year 1 Spring Semester	Psychology 7021 Practicum in Clinical Assessment and Diagnosis Thesis Research
Year 2 Fall Semester	Psychology 6602 Research Design in Clinical Psychology Psychology 6613 Child Psychopathology Psychology 6630 Principles of Intervention with Adults Psychology 7030 Practicum in Assessment and Intervention I
Year 2 Winter Semester	Psychology 6631 Principles of Intervention with Children Psychology 6632 Community Interventions Psychology 6640 Consultation Processes Psychology 7031 Practicum in Assessment and Intervention II
Year 2 Spring Semester	Psychology 7032 Practicum in Community Intervention and Interprofessional Practice Thesis Research
Year 3 Fall Semester	Psychology 6633 Clinical Psychopharmacology Psychology 6650 Supervision Psychology 6xxx Non-clinical elective Psychology 7033 Practicum in Advanced Assessment and Intervention I Psychology 7050 Practicum in Supervision I
Year 3 Winter Semester	Clinical Elective Clinical Elective Psychology 6xxx Non-clinical elective (if required) Psychology 7034 Practicum in Advanced Assessment and Intervention II Psychology 7051 Practicum in Supervision II
Year 3 Spring Semester	Psychology 7035 Practicum in Rural Intervention and Interprofessional Practice Comprehensive Exam Thesis Research
Year 4	Predoctoral Internship

30.4 Courses

6000 Advanced Statistics
6001 Research Design
6602 Research Design in Clinical Psychology
6610 Principles of Effective Relationships
6611 Ethics of Professional Practice
6612 Adult Psychopathology
6613 Child Psychopathology
6614 Selected Topics in Psychopathology
6620 Principles of Adult Assessment and Diagnosis
6621 Principles of Child Assessment and Diagnosis
6622 Selected Topics in Assessment and Diagnosis
6630 Principles of Intervention with Adults
6631 Principles of Intervention with Children
6632 Community Interventions
6633 Clinical Psychopharmacology
6634 Selected Topics in Intervention
6640 Consultation Processes
6650 Supervision
6660-6669 Special Topics in Clinical Psychology
7010 Practicum in Ethics and Relationship Skills
7020 Practicum in Assessment and Diagnosis
7021 Practicum in Clinical Assessment and Diagnosis
7030 Practicum in Assessment and Intervention I
7031 Practicum in Assessment and Intervention II
7032 Practicum in Community Intervention and Interprofessional Practice
7033 Practicum in Advanced Assessment and Intervention I
7034 Practicum in Advanced Assessment and Intervention II
7035 Practicum in Rural Intervention and Interprofessional Practice
7050 Practicum in Supervision I
7051 Practicum in Supervision II

SCHOLARSHIPS, BURSARIES AND AWARDS

Archived Previous Calendar
Current University Calendar available at:
<https://www.mun.ca/university-calendar>

SCHOLARSHIPS, BURSARIES AND AWARDS

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www.mun.ca/scholarships/home/

Manager

Casey, J., BA, B.Ed. *Memorial*

Co-ordinator, Undergraduate Scholarships and Awards

McGrath, A., B.A.A. *Ryerson*, B.Ed., M.Ed. *Memorial*

International Student Co-ordinator

Foote, M., B.A., M.A., *Memorial*

Administrative Program Assistant

Peckham, C.

1 The Memorial University of Newfoundland Code

The attention of all members of the University Community is drawn to the section of the University Calendar titled **The Memorial University of Newfoundland Code**, which articulates the University's commitment to maintaining the highest standards of academic integrity.

2 General Information

Various types of awards are available to students of Memorial University of Newfoundland. Included are scholarships, bursaries, fellowships, studentships, prizes, medals and loans.

A scholarship is based on academic performance and is awarded to the student with the highest average meeting the conditions of the scholarship. Scholarship standing is required for all scholarships.

A bursary is based primarily on financial need and may be awarded to full-time students who have a minimum GPA of 2 (out of a possible 4) and meet the other conditions of the bursary.

An award is offered to recognize special achievements or to assist with special projects or travel. Awards may be given to students with a minimum of clear standing (as defined by the University) and meeting the other conditions of the award.

A grant is an award for which need is a prime consideration, normally with the provision that the recipient be, or remain, in good academic standing. Grants are issued at the discretion of the Director of Student Success Programs, Student Affairs and Services.

Loans are granted to students on an "ad hoc" basis with need being the prime consideration. Loans are normally repaid before the commencement of subsequent semester. Interest is charged on outstanding loans. Administration of loans is at the discretion of the Director of Student Success Programs, Student Affairs and Services.

Some scholarships and awards may be held for more than one year, but are renewable only if the student maintains scholarship standing and first class standing.

Entrance scholarships are awarded for the Fall Semester.

Unless otherwise noted, entrance scholarships are open to Canadian citizens and permanent residents graduating from secondary school who are admitted to Memorial University of Newfoundland on the basis of high school grades and current entrance standards and who meet the current definition of scholarship standing. They are also open to students in the above category who may not be coming directly from high school. This is limited to those who have previously graduated from high school, are admitted to the University on the basis of high school grades and current entrance standards and who meet the current definition of scholarship standing.

Distinct undergraduate entrance scholarships are available for international students. These scholarships are awarded to international undergraduate students who are entering Memorial University of Newfoundland. They are academic based, and the monetary value is between \$3000 and \$4400. Students do not need to apply for these scholarships; they are automatically considered when they apply to the University.

These scholarships have been established by Memorial University of Newfoundland as part of an agreement by the Board of Regents, in May 2003, that a portion of the tuition fees for international undergraduate students would be set aside for International Scholarships. To be considered for these scholarships, a student must be eligible to pay the full international undergraduate fee, must register for at least 9 credit hours in each of two semesters in their first academic year at Memorial University of Newfoundland, should normally have fewer than 31 credit hours of transfer credits and meet scholarship standing (comparable to that prescribed for Newfoundland and Labrador and Canadian applicants). These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Director, Office of Student Recruitment.

International Students are eligible for continuing undergraduate scholarships offered through Memorial University of Newfoundland assuming they meet the specific criteria. Most scholarships require students to be in scholarship standing. Scholarship standing for undergraduate students is defined as a 75% average at the end of two out of the last three semesters in the previous scholarship year and the successful completion of not less than thirty credit hours in those two semesters. Not all students who meet the above definition of scholarship standing will receive a scholarship.

Scholarship standing for undergraduate entrance students (who are Canadian citizens or permanent residents graduating from secondary schools within Canada) is defined as a 75% average compiled from the final grades received in secondary school courses required for University admission. Students in level three who, have a 90% or higher average on 3000 level credits from the list of courses covered under **UNIVERSITY REGULATIONS - Admission/Readmission to the University (Undergraduate), Applicants Who Have Followed the High School Curriculum of the Newfoundland and Labrador**, may be provisionally offered scholarships. Students graduating from High Schools in other provinces in Canada may be eligible based on corresponding criteria from their provincial secondary program. The provisional offer will remain in effect until University admission averages are determined.

Scholarship standing for undergraduate students is defined as a 75% average at the end of two out of the last three semesters in the previous scholarship year and the successful completion of not less than 30 credit hours in those two semesters. In considering students who complete more than 30 credit hours in those two semesters, the average on the actual number of credit hours taken will be reviewed. Students who fail one or more courses during the scholarship year, regardless of the number of courses completed, will not be eligible for scholarships.

For Co-op students who do not meet the above definition because of scheduled work terms, scholarship standing is defined as a 75% average over the most recent two academic semesters in the preceding four semesters in which they must have been enrolled as regular full-time Co-op students. Those who fail an academic course or work term during the four semester period will not be eligible for scholarships.

Not all students who meet the above definitions of scholarship standing will receive a scholarship.

Students transferring to Memorial University of Newfoundland from Universities/Colleges in Canada which are members of the Association of Universities and Colleges of Canada (AUCC) and who meet scholarship standing as defined by Memorial University of Newfoundland will be eligible for undergraduate scholarships in the year in which they transfer. Such students must notify the Scholarships, Bursaries and Awards Office in writing of their intention to transfer and provide a complete transcript for the year in

question.

Awards must be taken during the scholarship year for which they are awarded and the student must be registered full time or in a recognized work term in order to receive their scholarship, unless stated otherwise in the terms of reference. The scholarship year runs from May 1st - April 30th.

A student may receive in any one scholarship year one general award of any value administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards or more than one award to a combined value of 1.5 times the per semester tuition for 15 credit hours. In addition, students may receive, upon recommendation of the appropriate academic unit, awards administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards such that the total of general and academic unit specific awards does not exceed three times the per semester tuition for 15 credit hours.

Students who have obtained scholarship standing as defined above need not apply for general scholarships. Inquiries from students with special circumstances and/or concerning scholarships with special terms should be referred to the Scholarships, Bursaries and Awards Office, University Centre, Room 4018, or by telephone to (709) 864-3956.

Students attending the Grenfell Campus in Corner Brook are eligible for all General Scholarships. You may make scholarship inquiries at the Student Affairs Office on that campus or the Scholarships, Bursaries and Awards Office.

Students wishing to apply for awards administered by other authorities should consult the appropriate section of the Scholarships, Bursaries and Awards portion of the Calendar and/or the Scholarships, Bursaries and Awards Office.

In addition to undergraduate awards listed herein, limited information is included concerning Studentships, Fellowships and Graduate Awards. Further inquiries may be made to the Scholarship Committee, though students are advised to consult the Heads of their Departments, the Dean of the Faculty or the Dean of Graduate Studies concerning these particular awards.

If you would like access to information on these and other post-secondary scholarships, awards, and bursaries available through the Internet, visit the Scholarships Office website at www.mun.ca/scholarships.

2.1 Government Assistance

The Government of Canada and the Government of Newfoundland and Labrador work together to provide student financial assistance to residents of the Province. Students who have a demonstrated financial need may, upon application, receive financial support from the Canada-Newfoundland and Labrador Student Financial Assistance Program. Students are encouraged to apply online at www.gov.nl.ca/studentaid/ and to apply early. For further information see **Loan Funds**.

3 Scholarships, Bursaries, and Awards Administered By the Senate Committee on Undergraduate Scholarships, Bursaries and Awards for Which Entrance Students May Qualify

Anthony Insurance Entrance Scholarship

This scholarship is the result of a generous endowment to Memorial University of Newfoundland by Anthony Insurance in memory of Robert C. Anthony B founder of Anthony Insurance Inc. and the Insurance Corporation of Newfoundland. Mr. Anthony, an inductee of the Newfoundland and Labrador Business Hall of Fame, started his career as a teacher in rural Newfoundland and placed great emphasis on the value of education. The scholarship is intended to help a deserving, high-school graduate attend Memorial University of Newfoundland who would otherwise find it difficult due to financial considerations. The value of the scholarship is full-time tuition for one semester. Eligible candidates must have graduated from a Newfoundland and Labrador high school with a minimum of 75% in Level III courses and must intend to enroll at Memorial University of Newfoundland on a full-time basis. Additional scholarships may be awarded annually as endowment fund growth permits. These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Arnold's Cove, Come By Chance, North Harbour Fishers and Newfoundland Transshipment Scholarship

This scholarship was established by Newfoundland Transshipment Limited (NTL) as part of an agreement between them and the Fishers Liaison Committee (FLC) of the Arnold's Cove, Come By Chance and the North Harbour area. This scholarship, valued at the annual interest on the initial endowment to a maximum of \$500 per student, will be awarded on the basis of scholarship standing to a Fisher or his/her descendant(s) who is registered as a full-time student at Memorial University of Newfoundland in any year or field of study. In the event that no applicants are received from Fishers or Fishers' descendants in a given year, the scholarship may be awarded to another student from above noted geographic areas. Eligibility of applicants under the above criteria will be verified by the Fisheries Liaison Committee (FLC). Memorial University of Newfoundland is encouraged to ensure that the scholarship is alternated between communities and their eligible students. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of an application which may be obtained from the Scholarships, Bursaries and Awards Office, Rm. 4018, Smallwood Centre, Memorial University of Newfoundland, A1B 5S7. Completed applications must be returned to the FLC for appropriate verification.

The Atlantic Canada Marine Biodiversity Essay Contest Tuition Scholarship

Memorial University of Newfoundland is a participant in the Atlantic Canada Marine Biodiversity Essay Contest which is operated by the Centre for Marine Biodiversity. This contest is open to Grade 12 students from across Atlantic Canada. The first prize winner receives a waiver of tuition fees for two semesters if he or she attends Memorial University of Newfoundland. The two runners up receive partial waiver of tuition fees if they attend Memorial University of Newfoundland. Students are notified of their status in the Essay Contest by the Centre for Marine Biodiversity and the successful candidates are informed of their tuition scholarship by the university, after the Centre for Marine Biodiversity informs the university of the contest winners. Further information can be found on the web site of the Centre www.marinebiodiversity.ca. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, Faculty of Science.

The Mary L. (Mollie) and Peter T. Bailey Memorial Scholarship

This scholarship, donated by the family of the late Mary L. (Mollie) and Peter T. Bailey, has a value of at least \$500.00. It is open to students entering first-year studies who are required to move away from home to attend Memorial University of Newfoundland. In making the award, scholarship standing and need will be considered.

Leah Bailey Powers Memorial Scholarship

This entrance scholarship was created in loving memory of Leah Bailey Powers who passed away in 2009 at the age of nineteen. Leah excelled academically and was an energetic and spirited student leader. As Student Council President of Holy Heart of Mary Regional High, she inspired and motivated her peers to become active in their school community. Leah's leadership activities continued in her first year at Memorial University where she became a passionate and dedicated volunteer to promote social justice with Engineers Without Borders. This scholarship will be valued at a portion of the income on the endowment and will be awarded annually. This scholarship will be given to a student graduating from Holy Heart of Mary Regional High in St. John's who is entering his/her first year of studies in any

discipline at Memorial University of Newfoundland. This scholarship may be held in addition to other scholarships and will be awarded only to applicants who embody the same spirited and enthusiastic leadership qualities that Leah demonstrated in motivating and inspiring inclusiveness in student and community activities and organizations, as nominated by Holy Heart of Mary Regional High. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of Holy Heart of Mary Regional High.

The Baird-Stephenson Scholarship

This Scholarship, valued at \$1,000.00 is to be awarded annually to a Memorial University of Newfoundland student in any year or field of study. It is named for Mrs. Edna Baird-Stephenson and her late husband, both of whom were former members of Memorial University of Newfoundland's faculty. The Scholarship will be awarded on the basis of academic excellence.

The Warren and Catherine Ball Memorial Entrance Scholarship

This scholarship was established in 2005 by a generous donation from the estate of Dr. and Mrs. Ball. The endowment will provide scholarships at the value of \$7,500.00 per annum for up to four years of study to students entering Memorial University of Newfoundland for the first time. The number of the annual scholarships will be based on a portion of the annual income, as per the Awards Program Spending Policy. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing.

The Donald M. Balsom Award

The Newfoundland Brain Injury Association (NBIA) has established this award to honour Donald M. Balsom, former Associate Director of Memorial University of Newfoundland's School of Continuing Education and brain injury survivor. Valued at \$500.00, it will be awarded annually to a brain injured undergraduate student who is registered either part-time or full-time, in any year or field of study at Memorial University of Newfoundland, who has some volunteer experience with the NBIA and who is in clear academic standing at the University. In the event that no applications are received from brain injured students the award may be given to a student who has made a significant contribution as a volunteer to the Brain Injured Association. In special circumstances, the award may be held for more than one year. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards in consultation with NBIA as needed.

Bank of Montreal Scholarship

These scholarships are the result of a generous endowment to Memorial University of Newfoundland by the Bank of Montreal. Interest on the fund will provide several scholarships to full-time students entering Memorial University of Newfoundland in any field of study who have scholarship standing and demonstrated financial need. These scholarships will be valued at two semesters tuition for five courses. They are renewable for up to four years provided the candidate(s) maintains first class and scholarship standing.

The Birks Family Foundation Bursaries

The Birks Family Foundation has established a plan of annual contributions to the student aid funds of recognized Canadian universities for the creation of the Birks Family Foundation Bursaries. The Bursaries are awarded by the Foundation on the recommendation of the Senate Committee on Undergraduate Scholarships, Bursaries and Awards and are not restricted to faculty or year and may be renewed. The number and amount of such awards may vary annually, depending upon the funds available for the purpose from the Foundation.

The Glenn Roy Blundon Memorial Scholarship

This scholarship, valued at \$500.00, has been established by the family, friends and fellow students of the late Glenn Roy Blundon, a former student of Memorial University of Newfoundland who, despite his severe physical disability, succeeded in his studies and made a significant contribution to student life. In the awarding of this scholarship, preference will be given to academically qualified students with disabilities but those enrolled in the Special Education Program may be considered when no candidates are available from the first group. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Gary Bourne Memorial Scholarship

This scholarship is the result of an endowment to the University funded largely by donations resulting from fundraising efforts of Gary's colleagues at the Office of Financial and Administrative Services. Valued at a portion of the annual accrued interest on the endowment it will be awarded on the basis of scholarship standing to an undergraduate student who is a dependent of a current, retired or deceased staff member of Memorial University of Newfoundland. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Edward Patrick Browne Memorial Scholarships

In his will, Edward Browne, a distinguished and beloved member of the University community, and a life-long supporter of the growth and development of the sport of basketball at provincial and national levels, left a bequest to Memorial University of Newfoundland for the awarding of scholarships to students. These scholarships are awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the advice of the Dean of the School of Human Kinetics and Recreation.

The Jo Anne Butler Entrance Scholarship

This scholarship has been made available to the Memorial University Of Newfoundland, through the generosity of Fairfax Financial Holdings Limited in honour of Jo Anne Butler. This scholarship will be awarded annually to an undergraduate student entering the first year of an academic program at Memorial University of Newfoundland. It will be valued at \$5,000.00 per year. Eligible students must be Canadian citizens or permanent residents, graduating from a Canadian secondary school or CEGEP, who demonstrate financial need and have achieved a minimum final admission average of 80%. Outstanding achievements or commitments in community and/or other extra curricular activities may also be considered. The scholarship is renewable for up to four additional years if scholarship standing is maintained. Renewal will also be dependant on continuation of full-time enrolment in the undergraduate program in which the recipient began and he/she must not already have received a degree. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Calgary Affinity Dinner Entrance Scholarship

This scholarship was established by the Calgary Affinity Dinner Committee from proceeds of the annual Calgary Affinity Dinner. One or more scholarships, valued at a portion of the income on the endowment, will be awarded annually to students who meet the minimum academic requirements for an entrance scholarship as defined by the University. The scholarship will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Greg Campbell Memorial Entrance Scholarship

These scholarships are the result of a generous donation by Eleanor Swanson to commemorate the memory of her late husband, J. Gregory Campbell. Interest on the fund will provide two scholarships to full time undergraduate students entering first year of any faculty or school at Memorial University of Newfoundland. The scholarships will be awarded on the basis of scholarship standing and financial need.

The William Campbell Memorial Alumni Scholarship

This scholarship, valued at a portion of the income on the investment, will be awarded annually to a student entering any first year program offered at Memorial University of Newfoundland. The recipient must be a graduate of Menihek High School. If the selected

candidate pursues the College Transfer Program at the Labrador West Campus of the College of the North Atlantic, the scholarship may be deferred for one year on the condition that the student enters Memorial University of Newfoundland the following year. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on scholarship standing as defined by the University.

The Canadian Federation of University Women St. John's Bursaries

Two bursaries, valued at \$1500.00 each, are offered annually by the Canadian Federation of University Women (CFUW) St. John's to female students in full-time or part-time studies. The awards are made on the basis of scholarship standing and financial need and are not restricted to any particular faculty or year of study. The first of these bursaries is named in memory of Dr. Edith M. Manuel, well-known Newfoundland educator and charter member of CFUW St John's who died in 1984. The second is named for Olga Anderson, a long-time member of CFUW St. John's. Further information regarding the CFUW is available at www.cfuw.org.

The William J. and Florence Carew Labrador Student Scholarship/Bursary

A Scholarship/Bursary, established in 1975 by Miss Helen F. Carew, was renamed in 1990 in memory of her parents William J. and Florence Carew and is valued at \$600.00 annually. The award shall be made to a student from Labrador entering Memorial University of Newfoundland. In making the award, need as well as academic standing, will be considered.

The Daniel Cleary Entrance Scholarship

Daniel Cleary is a native of Harbour Grace, NL and a NHL hockey player who played with the Detroit Red Wings when they won the Stanley Cup in 2008. Mr. Cleary is the first resident of the province to have played on a Stanley Cup winning team. The Daniel Cleary Entrance Scholarship is established as the result of funds raised from an event, and sale of merchandise, celebrating Mr. Cleary and the Red Wings' victory. The scholarship will be awarded annually to an entering full-time undergraduate male or female student in any program of study at Memorial University of Newfoundland. To be eligible, candidates must demonstrate scholarship standing and have participated in the highest level of minor hockey in Newfoundland and Labrador in their graduating year. The scholarship is valued at a portion of the income on the endowment or \$1000, whichever is greater, and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Coinmatic Residence Award

The Coinmatic Residence Award is valued at \$1,000.00 annually. The award will be given to a student currently residing in University residence (Winter semester) who also lived in residence the previous Fall semester and who has shown exceptional leadership in raising environmental awareness and in participation in environmental projects and activities. The recipient must have a minimum of a 70% cumulative average, be in clear academic standing and must be nominated for the award. Students may nominate themselves or may be nominated by another student or a member of Housing, Food and Conference Services staff. The Award will be conferred by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Director of Housing, Food and Conference Services in consultation with the Manager of Residence Life.

Construction Labour Relations Association of Newfoundland and Labrador Inc. (CLRA) Scholarship

These five scholarships, valued at \$1,000 each, were established through a donation from the Construction Labour Relations Association of Newfoundland and Labrador (CLRA). Three of the five scholarships are entrance scholarships and two scholarships will be available to full-time students in any year of any program. They will be available to dependents (sons, daughters or wards), or employees of CLRA member companies. Students must complete an application form provided by CLRA. Based on scholarship standing, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Clayton and Alice Cook Scholarship

This scholarship has been established by Mr. Clayton D. Cook, retired Newfoundland/CN Railway Trainman. The scholarship will be valued at a portion of the income on the endowment and awarded annually. To be eligible, candidates must be enrolled full-time in an undergraduate program at Memorial University of Newfoundland, be residents of Newfoundland and Labrador (as defined by the University) and have scholarship standing. First preference will be given to candidates who are sons, daughters, grandchildren, great-grandchildren or wards of the Newfoundland/CN Railway Trainmen. When an eligible student meeting these criteria cannot be identified, second preference will be given to students enrolled in the Newfoundland Studies program. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required to identify students in the first category and may be obtained from the Scholarships and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Country Ribbon Scholarship

This scholarship is available to dependants (sons, daughters or wards) of employees of Country Ribbon. Valued at \$1,000.00 annually it will be awarded, with first preference, to an entrance student registered for full-time studies at Memorial University of Newfoundland. If no suitable candidate can be identified from the first group the scholarship may be awarded to an undergraduate student registered for full-time studies at Memorial University of Newfoundland. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required and may be obtained from the Scholarships and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Courage Entrance Bursary

This bursary was established in honour of John and Mary Courage. Valued at a portion of the income on the investment, it will be awarded annually to the undergraduate entrance student who has demonstrated financial need. The recipient must be from the Fortune Bay - Hermitage area and can be enrolled in any field of study. However, if there is no student from that area of Newfoundland, then it will go to a student from rural Newfoundland and Labrador, which includes: Avalon East and West, Carbonear, Clarenville (North and South), Springdale, Deer Lake, Stephenville, Channell/Port-aux-Basques, Northern Peninsula and Labrador (with the exception of Goose Bay, Labrador City, and Churchill Falls - Wabush). The recipient must meet the minimum academic requirements for an entrance bursary as outlined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Dr. Clarence B. Crummey Memorial Entrance Scholarship

This scholarship is in memory of the late Dr. Clarence Crummey, Jubilee Scholar of the first graduating class of Memorial University College 1927. It is valued at a minimum of \$1,000.00 annually and will be awarded to an entering student to Memorial University of Newfoundland from the Bonavista Bay area. It will be awarded based on scholarship standing.

The Reverend Doctor Levi Curtis Bursary

This bursary has a value of at least \$200.00 and is awarded each year to a student who is a candidate for the ministry of the United Church, a child of a minister of the United Church, or the child of a needy United Churchman. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Charlotte Penwell Dolimount Memorial Scholarship

The scholarship is valued at \$5,000, and is provided via a contribution to Memorial University of Newfoundland by Mr. Darryl Fry. It will be awarded on the basis of scholarship standing to graduates of high schools in Grand Bank and Fortune. Where possible preference will be given to students planning to do a Bachelor of Education at Memorial University of Newfoundland.

Eastlink Entrance Scholarship

Each year, Eastlink awards two entrance scholarships valued at \$4,000.00 each to students planning to attend Memorial University of Newfoundland in the Fall. In order to qualify for these awards, candidates must be dependants or spouses of subscribers of Eastlink, reside in one of the communities serviced by Eastlink, be enrolled as a full-time students, possess scholarship standing as defined by the University, and hold no other concurrent scholarship. In deciding on candidates of equal academic attainment, need will be the determining factor. A special application is required and is available in writing to Eastlink, 17 Duffy Place, P.O. Box 12155, Station A, St. John's, NL, A1B 4L1.

The Fraser Edison Scholarship

This scholarship is the result of a donation to the *Opportunity Fund* in 1999 by Mr. Fraser Edison. It will be valued at the annual interest on the endowment and will be awarded to an undergraduate student who has a recognized physical disability. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956. The scholarship will be awarded on the basis of scholarship standing to a student in any year or field of study.

The Facilities Management Undergraduate Scholarship

This scholarship fund is the result of an endowment which began in 1996 as a part of the *Opportunity Fund* Campaign. The fund will provide one or more scholarships valued at a minimum of \$500 each to students who are children, grandchildren, nieces, nephews, brothers, sisters or spouses of current or retired employees of the Department of Facilities Management, Memorial University of Newfoundland. Preference in awarding the scholarship(s) will be given to entrance students but undergraduates may also qualify. The scholarship(s) will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone(709) 864-3956.

The Fairfax Financial Holdings Limited Entrance Scholarship

This scholarship has been made available to Memorial University of Newfoundland through the generosity of Fairfax Financial Holdings Limited. Valued at \$5000 annually, this renewable scholarship will be awarded annually to an undergraduate student entering the first year of any academic program at Memorial University of Newfoundland. Eligible students must be Canadian citizens or permanent residents, graduating from a Canadian secondary school or CEGEP, who demonstrate financial need and who have met the minimum academic standing for a scholarship. They must not have previously received a scholarship from Fairfax Financial Holdings. Outstanding achievements or commitments in community and/or other extracurricular activities may also be considered. The scholarship is renewable for up to four additional years if scholarship standing is maintained and the student continues full-time enrolment in the undergraduate program in which they began. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Flight 491 Legacy Fund Bursary

The Flight 491 Legacy Fund Bursary is established to honour the memory of the victims of the crash of helicopter Flight 491 on March 12, 2009. The bursary, valued at a portion of the income on the endowment, is open to full-time undergraduate students with demonstrated financial need who are entering their first year of study at Memorial University of Newfoundland. It is subsequently renewable for up to three additional years of consecutive full-time study providing the recipient continues to maintain clear academic standing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Flight 491 Legacy Fund Scholarship

The Flight 491 Legacy Fund Scholarship is established to honour the memory of the victims of the crash of helicopter Flight 491 on March 12, 2009. The scholarship, valued at a portion of the income on the endowment, will be awarded on the basis of scholarship standing and is open to full-time undergraduate students entering their first year of study at Memorial University of Newfoundland. It is renewable for up to three additional years of consecutive full-time study providing the recipient continues to maintain scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Daniel Fraad Jr. Memorial Entrance Scholarship

This scholarship was established by Jack and Susan Rudin in memory of Mr. Fraad who ran Allied Aviation at Gander International Airport for many years before his death. Valued at a minimum of \$3,000, it will be awarded annually to an entrance student(s) on the basis of scholarship standing.

The Dr. G.A. Frecker Memorial Alumni Bursaries

The Memorial University of Newfoundland Alumni Association has established, from its Annual Fund, five bursaries named in honour of the late Dr. G.A. Frecker, Chancellor, Memorial University of Newfoundland, 1971-79, and valued at \$500.00 each. Four of the bursaries are tenable at the St. John's campus and one at the Grenfell Campus at Corner Brook. The bursaries will be awarded annually to full-time students in any faculty or year on the basis of academic standing and financial need.

The Clarice Diamond Fry Memorial Scholarship

The scholarship is valued at \$5,000, and is provided via a contribution to Memorial University of Newfoundland by Mr. Darryl Fry. It will be awarded on the basis of scholarship standing to graduates of high schools in Glovertown and Eastport. However, preference will be given to students who are residents of Glovertown. Where possible preference will be given to students planning to do a Bachelor of Education degree at Memorial University of Newfoundland.

The Fry Family Foundation Junior Leadership Award

This award is the result of the generosity of the Fry Family Foundation. Valued at \$1,200.00, it is awarded annually to Grade Nine students from Newfoundland and Labrador schools. Award recipients will receive \$200.00 immediately (i.e. at the end of grade nine) and the remaining \$1,000.00 upon entry to Memorial University of Newfoundland at the end of Level III. The award will also provide the student with opportunities for involvement in leadership development and community services activities. Schools with grade nine graduating classes of forty-five (45) or more student are eligible to nominate candidates. This award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the school Guidance Councilor or Principal.

Fry Family Foundation St. John Bosco Scholarship

One or more scholarships valued up to \$5,000.00 annually, will be awarded to Level III students from Shea Heights or Blackhead, NL. In awarding the scholarship academic standing will be considered. The scholarship will be awarded to students who plan to attend Memorial University of Newfoundland in the fall semester immediately following their completion of high school. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Fry Family Foundation St. John's Community Centres Exceptional Achievement Entrance Scholarship

This scholarship was established by the Fry Family Foundation, a U.S.-based organization, founded and funded by Darryl and Marlene (nee Sellars) Fry, who were born and educated in St. John's, Newfoundland and Labrador. Valued at \$5,000, one or more scholarships will be awarded annually to a student graduating from Grade 12, who is living in the area served by one of the five St. John's Community Centres (Buckmaster's Circle, MacMorran, Froude Avenue, Rabbittown and Virginia Park), and will be based on scholarship standing, specifically that applicants have maintained an overall average of 90% or more at mid-term. The applicant must plan to enroll in first year

studies at the Fisheries and Marine Institute of Memorial University of Newfoundland, Memorial University of Newfoundland generally, or the College of the North Atlantic. Applications will be accepted by the executive directors of the respective St. John's Community Centres and the recipients chosen by a Selection Committee comprised of representatives from Memorial University of Newfoundland, the Marine Institute, the College of the North Atlantic, the Fry Family Foundation and the five executive directors of the St. John's Community Centres. The number of scholarships awarded annually at Memorial University of Newfoundland will depend on the application pool. The scholarships to students who choose to attend Memorial University of Newfoundland (excluding the Marine Institute) will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Selection Committee. Scholarships to students who choose to attend the Marine Institute will be awarded by the Marine Institute Scholarship Committee.

The Fry Family Foundation St. John's Community Centres Memorial University Entrance Scholarship

This scholarship was established by the Fry Family Foundation, a U.S.-based organization, founded and funded by Darryl and Marlene (nee Sellars) Fry, who were born and educated in St. John's, Newfoundland and Labrador. Valued at \$5,000, one or more scholarships will be awarded annually to a single parent, or a student graduating from Grade 12, who is living in the area served by one of the five St. John's Community Centres, and will be based on scholarship standing, volunteerism and participation in school and community activities. Applications will be accepted by the executive directors of the respective St. John's Community Centres and the recipients chosen by a Selection Committee comprised of representatives from Memorial University of Newfoundland, the Marine Institute, the College of the North Atlantic, the Fry Family Foundation and the five executive directors of the St. John's Community Centres. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Selection Committee.

The Fry Family Foundation St. John's Community Centres Post-Secondary Entrance Scholarship

This scholarship was established by the Fry Family Foundation, a U.S.-based organization, founded and funded by Darryl and Marlene (nee Sellars) Fry, who were born and educated in St. John's, Newfoundland and Labrador. Valued at \$2,500, the scholarships will be awarded annually, one to each of the five St. John's Community Centres (Froude Avenue, Buckmaster's Circle, MacMorran, Rabbittown and Virginia Park). Eligible candidates will be single parents, or students graduating from Grade 12, who live in the area served by the respective Community Centre. Selection will be based on scholarship standing, volunteerism, and participation in school and community activities. The applicant must plan to enroll in first year studies at the Fisheries and Marine Institute of Memorial University of Newfoundland, Memorial University of Newfoundland generally, or the College of the North Atlantic. Applications will be accepted by the executive directors of the five Community Centres and the recipient(s) chosen by a Selection Committee comprised of representatives from Memorial University of Newfoundland, the Marine Institute, the College of the North Atlantic, the Fry Family Foundation and the five executive directors of the St. John's Community Centres. The number of scholarships awarded annually at Memorial University of Newfoundland will depend on the application pool. The scholarships to students who choose to attend Memorial University of Newfoundland (excluding the Marine Institute) will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Selection Committee. Scholarships to students who choose to attend the Marine Institute will be awarded by the Marine Institute Scholarship Committee.

The General Motors Undergraduate Scholarship

This scholarship was established by General Motors of Canada Limited with contributions to the University's *Opportunity Fund* Campaign. Interest from the fund will provide one or more scholarships to support individuals who qualify as Native People, members of a Visible Minority and/or Physically Disabled. It will be awarded to students in any year or faculty or school at Memorial University of Newfoundland. It will be awarded on the basis of scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Raymond Gushue Memorial Bursary

This bursary was established in memory of Raymond Gushue, born in Whitbourne and the first Newfoundlander appointed to the Order of Canada. Dr. Gushue left a lasting legacy of his achievements as a Past President of Memorial University of Newfoundland from 1952 to 1966. To be eligible for this bursary a student must be graduating from Crescent Collegiate in South Dildo and be entering the first year of any program at Memorial University of Newfoundland. Selection is based on demonstrated financial need as well as academic merit. Valued at a portion of the income on the investment, the bursary is renewable for one additional year, provided the recipient meets the minimum academic requirement for a bursary. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Joan Haire Memorial Scholarship

This scholarship is the result of an endowment which began in 1997 as a part of the *Opportunity Fund Campaign*. The fund will provide a scholarship valued at a minimum of \$500 to students who are children, grandchildren, nieces, nephews or spouses of current, retired or deceased employees or former employees with a minimum of five years service in the Department of Technical Services, Memorial University of Newfoundland. Preference in awarding the scholarship will be given to entrance students but undergraduates may also qualify. The scholarship will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709) 864-3956.

The Frank & Margaret Hamilton Gander Collegiate Entrance Scholarship

This scholarship is funded annually through the Frank and Margaret Hamilton Memorial Fund at the Canadian Medical Foundation in support of high school graduates from Gander Collegiate. It will be awarded at \$1,750 annually to a student entering their first year of undergraduate study at Memorial University of Newfoundland and is open to any discipline. The student must be in scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Frederick J. Hancock Scholarship

This scholarship is the interest on a sum of money donated to the University by Frederick J. Hancock, former Sergeant of the Newfoundland Constabulary who served as a member of the Force for twenty-five years until his retirement in 1963. Preference in the awarding of this scholarship will be given to sons and daughters of active, retired or deceased members of the Royal Newfoundland Constabulary. Candidates must be enrolled in full-time studies at the University and possess scholarship standing. When no candidates can be found from the above category, the scholarship may be awarded to any full-time student on the basis of academic merit. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Dr. Leslie Harris Memorial University Alumni Association Scholarships

Memorial University of Newfoundland and its Alumni Association have established these scholarships to honour former University President, Dr. Leslie Harris, and to recognize excellence. Several scholarships, valued at a minimum of \$16,000.00 (\$4,000.00 annually for up to 4 years) will be awarded annually and may be renewed if first class and scholarship standing are maintained. These scholarships are tenable in all undergraduate programs at the University and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The A. Harvey & Company Limited Scholarship Program

On the occasion of its 125th anniversary, A. Harvey & Company Limited established this scholarship tenable at Memorial University of

Newfoundland and valued at \$1,500.00. The deadline date for applying is the last Friday in July. In order to qualify candidates must:

- a. Be a dependent or spouse of employees of the company;
- b. Be enrolled as a full-time student;
- c. Posses scholarship standing as defined by the University; and
- d. Hold no other concurrent scholarship.

Preference will be given to entrance students; however, if there is no eligible candidate enrolled in first year studies, then the scholarship may be awarded to a senior undergraduate student attending Memorial University of Newfoundland who fulfills the above criteria. In deciding between candidates of equal academic attainment need will be the determining factor. Further information and application forms are available in writing from A. Harvey & Company Limited, 87 Water Street, P.O. Box 5128, St. John's, NL, A1C 5V6

The Judge Higgins Memorial Entrance Scholarship

This scholarship was established in memory of the late Judge William Higgins and is valued at a portion of the annual interest on the endowment. It will be open to all students entering first-year studies at Memorial University of Newfoundland. In making the award, scholarship standing and financial need will be considered. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Imperial Tobacco Canada Entrance Scholarship

This scholarship was made possible by a donation in 1998 to Memorial University of Newfoundland by Imperial Tobacco Canada in support of the *Opportunity Fund Campaign*. The scholarship is valued at a minimum of \$2,000.00 annually. It will be awarded to an entrance student on the basis of scholarship standing.

The Irving Oil Limited Scholarships

These scholarships are the result of a generous endowment to Memorial University of Newfoundland by Irving Oil Limited in 1999 as a part of the *Opportunity Fund Campaign*. Interest on the endowment will provide several scholarships to full-time students entering Memorial University of Newfoundland in any field of study who have scholarship standing. Where two or more students are tied academically, financial need will be the determining factor. Two scholarships, valued at \$6,000.00 each, will be awarded annually to the general entering student population and, as funds permit, one or more scholarships valued at approximately \$3,000.00 each will be awarded with preference to students who are dependents of full-time permanent employees of Irving Oil Limited. The latter will be split equally between the Eastern and Western regions of the province with Grand Falls-Windsor providing the boundary line. Communities west and north of Grand Falls-Windsor (including Labrador) will be considered part of the western region and those east and south of Grand Falls-Windsor (including Grand Falls-Windsor itself) will be considered part of the eastern region. If in a given year there are not enough eligible candidates from the employees' dependant pool, these scholarships will also be open to the general entrance student population. All candidates must be residents of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a period of 12 months immediately prior to enrolment at Memorial University of Newfoundland).

The P.F. Kearney Memorial Scholarship

A minimum of two scholarships will be provided annually from the interest on a bequest to the University in memory of Mr. P.F. Kearney. The scholarships will be awarded to students attending Memorial University of Newfoundland from schools within geographic boundaries of the Exploits Valley Integrated and Exploits White Bay Roman Catholic School Boards. Preference will be given to entering students but in the event that no entering students are eligible in a given year they may be awarded to undergraduates in any year or field of study on the basis of scholarship standing.

Key Tag Scholarships

Up to three scholarships, valued at \$500.00 per annum, are donated by the Newfoundland Branch of the War Amputees of Canada, and are to be known as the Key Tag Scholarships. These scholarships are awarded annually to amputee students in any year or field of study at Memorial University of Newfoundland. In the event that no applications are received from amputee students, the Committee may consider other physically disabled students. In making the awards, financial need, initiative and scholastic achievement will be considered. In special circumstances, the scholarships may be held for more than one year. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Killam American Undergraduate Scholarship

This scholarship fund is the result of gifts to Memorial University of Newfoundland in memory of Isaac Walton Killam of Nova Scotia made by the charitable trusts of his sisters in Massachusetts. The fund will provide one or more non-renewable entrance scholarships, valued up to \$3,000.00 (Canadian), to undergraduate students from the United States wishing to study at Memorial University of Newfoundland. Eligible candidates will be citizens of the United States who meet current admission requirements to Memorial University of Newfoundland and demonstrate scholarship standing comparable to that prescribed for Newfoundland and Labrador and Canadian applicants. Recipients will normally be required to have fewer than 31 credit hours of transfer credits and to register at Memorial University of Newfoundland as full-time undergraduate students for at least four courses in each of two semesters in their first academic year at Memorial University of Newfoundland. The scholarship(s) will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Director of Student Recruitment.

The Iris Kirby Memorial Scholarship

This award, valued at \$650.00 annually, has been established by the friends and colleagues of the late Iris Kirby. Iris was an active feminist and advocate of encouraging women to develop their fullest potential. The scholarship is open to women enrolling in full-time undergraduate studies at Memorial University of Newfoundland who are entering or returning after at least five years out of full-time study. Applicants should have been resident in Newfoundland for at least one year before applying. The scholarship will be awarded in the Winter semester on the basis of the Fall semester's results. In deciding on candidates of equal academic attainment, a commitment to the goal of an equal status for women in our society will be considered. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Korea Veterans' Association Scholarship

Twenty-six thousand, seven hundred and ninety-one (26,791) Canadians served in the Korean Theatre between the beginning of hostilities in 1950 and the signing of the cease-fire in 1953. Another 7,000 served between the cease-fire and the end of 1955. This scholarship was established to honour the men and women of the various Canadian Military Units that served in the United Nations Forces during that period of time. One scholarship of \$500 is awarded annually to a student who meets the following criteria: A full-time first year student at Memorial University of Newfoundland who is the child or grandchild of a Canadian Korea War Veteran and who has scholarship standing. In a year when there is no eligible child or grandchild in first year, the scholarship may be awarded to a child or grandchild beyond first year studies. If there is still no eligible student, the scholarship may be awarded to any first year student at Memorial who has scholarship standing. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of an application which is available from the Scholarships, Bursaries and Awards Office, Rm. 4018, University Centre.

The Labrador Fishermen's Union Shrimp Company Memorial Scholarship

These scholarships, two valued at \$2,500.00 each annually, were created in honour of the six crew members who died in the 1990

airplane crash in Greenland. They will be awarded to entrance students from Coastal Labrador on the basis of scholarship standing. The first scholarship will be to a student from the Red Bay to Lance au Clair area and the second one to a student from the Lodge Bay to Cartwright area.

The Locke's Electrical Limited 50th Anniversary Scholarship

This scholarship is the result of an endowment established by Locke's Electrical Limited, Corner Brook, on the occasion of their 50th anniversary. Valued at the interest on the endowment, it will be awarded on the basis of scholarship standing to an undergraduate student in any year of study who is a child or grandchild of a current or retired staff member of Locke's Electrical Limited or one of its affiliates. If the scholarship is not awarded in one year then two may be awarded the following year. An application is required and may be obtained from, and returned to, Locke's Electrical Limited, Corner Brook.

The William and Naomi Lundrigan Scholarship

The William and Naomi Lundrigan Scholarship shall be awarded to an entrance student attending Grenfell Campus, Corner Brook. Two scholarships valued at a portion of the income on the endowment will be awarded annually. The recipients must meet the minimum academic requirements for a scholarship as defined by Memorial University of Newfoundland and consideration may be given to financial need. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Selection Committee at the Grenfell Campus.

The R.F. (Bob) MacLeod Memorial Entrance Scholarship in Music

This scholarship, with a value of at least \$300.00, has been established in memory of Mr. R.F. (Bob) MacLeod, pianist, organist, and entertainer. The scholarship is awarded annually to a student entering the first year open to full-time undergraduate students entering their first year of study at Memorial University of Newfoundland. It is renewable for up to three additional years of consecutive full-time study providing the recipient continues to maintain scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Thelma Marsh Scholarship

This scholarship is a result of an ongoing gift to Memorial University of Newfoundland by Mrs. Thelma Marsh of St. John's. The scholarship, valued at \$2,000.00 annually, is to be awarded to an entrance student from Newfoundland and Labrador. It will be awarded on the basis of scholarship standing and financial need.

The Memorial University of Newfoundland 50th Anniversary Scholarships

These scholarships are a result of donations made to the Memorial University of Newfoundland *Opportunity Fund Campaign*. Established in 1999, they are awarded annually to students entering the University in Fall semester who have received a provincial government scholarship. The University will offer a scholarship of matching value to students who receive The Junior Jubilee, The Constable W. C. Moss, The Centenary of Responsible Government and the Provincial Electoral District Scholarships.

The Memorial University of Newfoundland Alumni Entrance Scholarship

This scholarship is made possible by a donation from the Memorial University of Newfoundland Alumni Association. The scholarship is valued at \$5,000.00 per year and is renewable to a maximum of an additional four years provided first class and scholarship standing are maintained. The scholarship is tenable in all undergraduate programs at this University.

Memorial University of Newfoundland CAUBO Conference 2010 Bursary

This bursary has been established by the Memorial University of Newfoundland planning committee members for the Canadian Association of University Business Officers (CAUBO) annual conference hosted by Memorial University of Newfoundland in June 2010. The Committee members volunteered a considerable amount of their time and talent over the twelve months leading up to the conference to ensure the success of this event. Memorial University of Newfoundland's share of the surplus generated by the conference has enabled the Committee to endow this entrance bursary. The bursary will be valued at a portion of the income on the endowment and will be awarded annually. The recipient will be an entrance student enrolled in any program at Memorial University of Newfoundland and who is a dependent of a current, retired or deceased staff member of Memorial University of Newfoundland. The recipient must have demonstrated financial need and must meet the minimum academic requirements for a bursary as defined by the University. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required and may be obtained from the Scholarship and Awards Office Room 4018, University Centre or by calling (709) 864-3956.

Memorial University of Newfoundland CAUBO Conference 2010 Scholarship

This scholarship has been established by the Memorial University of Newfoundland planning committee members for the Canadian Association of University Business Officers (CAUBO) annual conference hosted by Memorial University of Newfoundland in June 2010. The Committee members volunteered a considerable amount of their time and talent over the twelve months leading up to the conference to ensure the success of this event. Memorial University of Newfoundland's share of the surplus generated by the conference has enabled the Committee to endow this entrance scholarship. The scholarship will be valued at a portion of the income on the endowment and will be awarded annually. The recipient will be an entrance student enrolled in any program at Memorial University of Newfoundland and who is a dependent of a current, retired or deceased staff member of Memorial University of Newfoundland. The recipient must meet the minimum academic requirements for a scholarship as defined by the University. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required and may be obtained from the Scholarship and Awards Office Room 4018, University Centre or by calling (709) 864-3956.

Memorial University of Newfoundland Endowment Scholarships

These scholarships, established by Memorial University of Newfoundland, are awarded annually to students in any year or faculty with approximately 50% of those awarded in a given year allocated for Entrance Students. The number and value of the annual scholarships vary depending on the interest earned. They are awarded on the basis of scholarship standing.

The Memorial University of Newfoundland Faculty Association Scholarship Fund

The Memorial University of Newfoundland Faculty Association (MUNFA) has established a trust fund to provide scholarships and bursaries to needy students in good academic standing. Assistance from this fund is available to entering students as well as to those further along in their studies and may be re-applied for in subsequent years. The first of the MUNFA Scholarships awarded each year is the Ditte Koster Memorial Scholarship. This award honours the late Ditte Koster who, up to the time of her death, was a professional librarian at the University. As a contribution to the *Opportunity Fund* in 1999, the Faculty Association pledged to pay the University the interest from their trust for the period January 1, 2000 to March 31, 2004. The matching money from this pledge will be contributed to the University's general Scholarship Endowment Fund allowing the University to award additional general scholarships.

The Memorial University of Newfoundland International Entrance Scholarship

These scholarships have been established by Memorial University of Newfoundland as part of an agreement by the Board of Regents, in May 2003, that a portion of the tuition fees for international undergraduate students would be set aside for International Scholarships. The values will vary but will not exceed \$3,000.00 each annually. To be considered for these scholarships, a student must be eligible to pay the full international undergraduate fee, must register for at least 9 credit hours in each of two semesters in their first academic year at Memorial University of Newfoundland, should normally have fewer than 31 credit hours of transfer credits and meet scholarship

standing (comparable to that prescribed for Newfoundland and Labrador and Canadian applicants). These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Director, Office of Student Recruitment.

The G.H. Morgan and Son Scholarship

This scholarship is the interest on a sum donated by a member of the Morgan Printing Co., Ltd., in memory of the founders of the firm, the late G.H. Morgan, Esq., and his son, the late Albert MacGregor Morgan, Esq. At the request of the donor, it is awarded annually based on the University final admission average. It will be awarded with first preference to a student from Coley's Point. If no eligible student from Coley's Point can be identified, preference will be given to students from (a) Bay Roberts, (b) the entire district of Port-de-Grave.

The Jacob and Floral Morgan Scholarship Fund

This fund has been established by relatives and friends of the late Jacob Morgan, a teacher for thirty years in the outports of this province, and of his wife Floral. One or more scholarships, valued at not less than \$2,500.00 each will be awarded annually. Preference will be given to students from the smaller outports, primarily to those who are entering Memorial University of Newfoundland for the first time.

The Julia E. Morgan Scholarship Fund

This fund has been established by relatives and friends of the late Julia E. Morgan, school teacher and University Extension Services field worker. One or more scholarships valued at not less than \$2,500.00 each will be awarded annually. Preference will be given to students from the smaller outports, primarily to those who are entering Memorial University of Newfoundland for the first time.

The M.O. Morgan Entrance Scholarships

These scholarships, tenable at Memorial University of Newfoundland and valued at a minimum of \$2,000.00 each, are open to entrance students. They have been funded in part by a donation received from the Albatross Hotel of Gander and the Mount Peyton Hotel of Grand Falls. They will be awarded on the basis of academic excellence.

The Edward G. Mullins Memorial Scholarship

This scholarship valued at \$500.00 annually has been established by the Newfoundland and Labrador Branch of the Kidney Foundation of Canada. It honours the memory of the late Edward G. Mullins who had kidney disease and was a dedicated volunteer of the Foundation. Preference will be given to applicants who have kidney disease, who have completed a minimum of 18 credit hours over two semesters in the previous scholarship year with a minimum average of 75% in the courses which comprise those credit hours and are enrolled full time at the University. However, if in a given year such an applicant(s) is not available, dependents of someone who has/had kidney disease may qualify. Such applicants must be enrolled full time at Memorial University of Newfoundland and have scholarship standing. In deciding on candidates of equal academic attainment from the latter group, need may be the determining factor. In some cases the scholarship may be held for more than one year. A special application is required and must be submitted to the scholarship office. Applications may be obtained in writing to The Kidney Foundation of Canada, Scholarships, Bursaries and Awards Office Newfoundland & Labrador Branch, Room 4018, University Centre, P.O. Box 7342, Memorial University of Newfoundland, St. John's, NL, A1E 3Y5, or by telephone to (709) 753-8999 or (709) 864-3956.

The MUNSU Undergraduate Scholarship

This scholarship fund is the result of an endowment which began in 1996 as a part of the *Opportunity Fund Campaign*. The fund will provide a scholarship valued at the annual interest on the endowment, to students who are children, grandchildren, or spouses of current (worked a minimum of 15 of the last 24 months) or retired employees of MUNSU, Memorial University of Newfoundland or of previous employees who had a minimum of ten years of service to MUNSU. In the event that there are no eligible candidates from the above group in a given year the scholarship will be open to nieces or nephews of current, retired or previous employees of MUNSU (as per above). It will be open to entrance students as well as undergraduates. The scholarship is not renewable and individuals will not normally hold the scholarship more than once unless there is no other eligible candidate in a given year. The scholarship will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709) 864-3956.

Harvey and Doris Murcell Scholarship

This scholarship has been established from funds donated by Harvey and Doris Murcell. Scholarships of at least \$1,000.00 shall be awarded under the following conditions:

- a. A scholarship to two entrance students who are residents of Harbour Grace who attended High School in Conception Bay North.
- b. Four scholarships to students of any year from high schools in the Conception Bay North area.
- c. Other scholarships as the fund will bear.

The scholarships shall be awarded based on scholarship standing.

Newfoundland Ranger Force (1935-50) Scholarship

This scholarship is made possible by a generous donation to Memorial University of Newfoundland by the Newfoundland Ranger Force (1935-49) Association. Valued at a portion of the income on the investment the Scholarship will be awarded to students entering first year of studies at Memorial University of Newfoundland. All candidates must be residents of Newfoundland and Labrador (a person who has maintained permanent residence in the province for approximately 12 months prior to enrolment at Memorial University of Newfoundland). The Scholarship shall be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Noia-Hibernia Commemorative Scholarship

1997 was a big year for the oil & gas industry. The Hibernia project was successfully completed, hauled out to sea, and started drawing oil. The Noia-Hibernia Commemorative Scholarship Fund was created to commemorate this landmark year. It offers an annual scholarship of \$1,000 to a graduating high school student in Newfoundland and Labrador who is entering post-secondary studies and intending to pursue a petroleum-related career. These are the bright minds that will shape the future of this industry, and we feel like it would only be right to foster some of their development. The scholarship will be awarded to the student who best meets academic and extra-curricular criteria. If you're about to graduate in June 2012 and are pursuing post-secondary studies with the goal of a career in petroleum in the 2012-2013 academic year, we encourage you to apply for this scholarship. Applications are available at www.noia.ca/Portals/0/ScholarshipApplication.pdf. Each student should outline their community and extra-curricular activities in the completed application and include a letter of reference. Applications should be sent to the following address: Noia Scholarship Selection Committee Box 44, Atlantic Place Suite 602, 215 Water Street St. John's, NL. A1C 6C9.

The Florence O'Neill Scholarships

An endowment donated to the University by Florence O'Neill, Ed.D., C.M., LL.D., honorary graduate of Memorial University of Newfoundland, distinguished for her contribution to the fields of adult education and community development, will fund annual scholarships valued up to \$1,000.00 each. These awards will be made available to full-time undergraduate students, preferably to those from rural Newfoundland and Labrador, on the basis of scholarship standing. One shall be given annually to a student attending the Grenfell Campus in Corner Brook.

The Dr. Hugh O'Neill Entrance Scholarship

These scholarships are the result of a generous donation to Memorial University of Newfoundland by The O'Neill Foundation. Four scholarships valued at \$1,000.00 each will be awarded annually to full-time undergraduate students entering first year of any faculty at Memorial University of Newfoundland. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and financial need.

The R.A. Parsons Scholarship Fund

The purpose of this fund is to provide scholarships to students in good academic standing and in proven financial need. There are no restrictions as to year or field of study.

The Selby Parsons Memorial Scholarship

This scholarship, awarded annually in memory of the late Mr. Selby Parsons, an early graduate of Memorial University of Newfoundland, is under the sponsorship of the family and friends of the late Mr. Parsons. It is open to outport students in their first year. Academic standing as well as financial need will be taken into consideration in making the award. The value of the award will be based on the income accruing from the fund during the period of tenure of the scholarship.

The John Lewis Paton Entrance Scholarship

This scholarship is the result of an endowment left to the University from the estate of the late Dr. John Lewis Paton. Valued at a minimum of \$2,500.00 annually, the scholarship will be awarded on the basis of scholarship standing to students entering Memorial University of Newfoundland.

The Howard and Amelia Patten Memorial Bursary

The Howard and Amelia Patten Memorial Bursary has been established by a gift from Dr. Eugene Nurse in memory of Howard Patten, a pharmacist in Grand Bank, and his wife Amelia, whose encouragement and financial support enabled Dr. Nurse to attend Medical School. It will be given annually to an entrance student at Memorial University of Newfoundland who is a graduate of John Burke High School in Grand Bank, who is in financial need and who meets the minimum academic requirement for a bursary as defined by the University. In the event that a qualified student from John Burke High School in Grand Bank is not available in a given year, the bursary may be given, under the same terms, to a student graduating from a high school in the district that serves Grand Bank. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Rose Patten Single Mother Scholarship

This scholarship has been established by Ms. Patten to encourage and assist women to develop their full academic potential. Valued at the interest on the endowment, it is open to single mothers who are enrolled in full-time undergraduate studies at Memorial University of Newfoundland. It will be awarded taking into consideration financial need as well as scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Elaine Pitcher Memorial Scholarship

This scholarship is the result of an endowment to the University from a bequest left by Elaine Pitcher, a donation from Xerox Canada and donations from family, friends and colleagues of Elaine. Valued at a portion of the annual accrued interest on the endowment, it will be awarded on the basis of scholarship standing to an undergraduate student who is a child of a current or retired staff member of Memorial University of Newfoundland. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Poole Family Scholarship

The Poole Family Scholarships are funded by a generous annual gift from the Poole Family Charitable Trust, established by Mr. Terry Poole who attended high school in Corner Brook and now resides in Calgary, Alberta. The scholarships will be awarded annually to a full-time undergraduate student entering into their first year of study in any program at Memorial University of Newfoundland (at any campus). To be eligible, candidates must demonstrate financial need and scholarship standing. Preference will be given to candidates who graduated from a high school in western Newfoundland. Recipients may attend any of Memorial University of Newfoundland's campuses. The scholarships are renewable for up to three years (four in the case of students enrolled in a program with a required fifth year of study, such as Engineering) as long as candidates maintain scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Quebec-Labrador Foundation Scholarships

The Quebec-Labrador Foundation offers three scholarships at \$500.00 each to students enrolled in studies at Memorial University of Newfoundland. The first award, which is funded from the Larry Shields Fund of the Foundation, is awarded annually on the basis of academic performance and financial need to undergraduate students who are (a) native born to Newfoundland and Labrador; and (b) planning to study, or currently studying, Native American and/or Inuit cultures. In the event that a candidate who meets this specific criteria cannot be found in a particular year, the award may be given to a student in any year from one of the study fields and geographic locations indicated below for the second and third awards.

The second and third awards will be awarded annually on the basis of academic performance and financial need to students in any year providing that they come from one of the following areas: the Northern Peninsula, Fogo, Labrador South, or the Lower North Shore of Quebec (from Natashquan to Blanc Sablon). In awarding these two scholarships, special consideration will be given to those applicants studying in the fields useful to the development of the regions served by the Foundation, e.g. Education, Business, Nursing and Health, Forestry, Fisheries, Engineering and Natural Resources.

Robert Gillespie Reid Memorial Scholarships

These scholarships are the result of the annual interest from a bequest left to Memorial University of Newfoundland by Mr. Reid. Scholarships valued at two semesters tuition for a full course load, will be awarded annually to students of scholarship standing. These scholarships are open to both Entrance and Undergraduate students.

Rotary Club of St. John's Entrance Scholarships

These scholarships, valued at a minimum of \$1000.00 each, were established by the Rotary Club of St. John's, Newfoundland, to assist qualified students entering first year of studies at the University. Scholarship standing, as well as financial need, are to be considered in making the awards. The number of awards to be made is contingent on the annual interest on the capital investment.

The Royal Canadian Legion Branch No. 1 Memorial Bursaries

Two awards, the first known as the W.R. Dawe Memorial Bursary and the second known as the Walter E. Williams Memorial Bursary, are sponsored by the St. John's Branch No. 1 of the Royal Canadian Legion. These are valued at \$750.00 each and are tenable only at Memorial University of Newfoundland. The awards recognize the contributions of Mr. Dawe and Mr. Williams to the province of Newfoundland and to the Royal Canadian Legion, St. John's Branch No. 1. They are open to Branch No. 1 members' children and grandchildren upon entrance to first year studies at the University. A special application, available from the Branch office or the University's Awards Office, must be completed and returned by August 31 of each year. The awards will be made on the basis of academic standing and need.

Royal Canadian Legion (St. John's Branch No. 1) Memorial Wall Scholarships

These scholarships, three at \$1,000.00 each, have been donated by St. John's Branch No. 1 of the Royal Canadian Legion. They were made possible through funds raised in the construction of a Memorial Wall located at the Branch's club rooms. The scholarships are tenable only at Memorial University of Newfoundland to undergraduate students in any faculty, school or year and will be awarded on the basis of scholarship standing and financial need.

The Saval Scholarship Fund in Memory of the Honourable Walter Stanley Monroe

Funded by the interest accruing on a donation from the Estate of Maurice H. Saval, at least two scholarships, valued at \$1,000.00 each, will be awarded annually to students entering Memorial University of Newfoundland in full-time undergraduate studies. These scholarships are in memory of the Honourable Walter Stanley Monroe. The scholarships will be awarded on the basis of academic excellence.

The Dr. Maurice Saval Scholarship/Bursary Fund

This fund has been established through the generosity of Dr. Maurice Saval, one of the co-founders in St. John's of the Newfoundland American Insurance Company. From the interest accruing on the fund, a number of scholarships/bursaries will be awarded annually to financially needy and academically deserving undergraduate students. The awards will be open to full-time students in first and second year.

The September 11, 2001 International Scholarship

As a result of the tragic events in New York, USA on September 11, 2001, nearly 13,000 air travellers were diverted to airports in Newfoundland to ensure their safety. In St. John's, 475 of them were housed on Memorial University of Newfoundland's St. John's campus for several days. Some of the passengers have shown their gratitude to Memorial University of Newfoundland by making donations to establish a fund which will assist students from other countries to attend Memorial University of Newfoundland. This fund will be a perpetual memorial to those who died in the tragic events of that day, while also providing both international students and our community with the opportunity for enrichment through exposure to new cultures and ways of life. To be considered for these scholarships, a student must be eligible to pay the full international undergraduate fee, must register for at least four courses in each of two semesters in their first academic year at Memorial University of Newfoundland, should normally have fewer than 31 credit hours of transfer credits and meet scholarship standing (comparable to that prescribed for Newfoundland and Labrador and Canadian applicants). These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Director, Office of Student Recruitment.

Shad Valley Scholarships

Three renewable scholarships, valued at \$12,000 each (\$3000 a year for up to 4 years), are available to high school students who have applied to Memorial University of Newfoundland. The scholarships are open to students who are either current participants or have previously participated in Shad Valley. The scholarships cannot be held in conjunction with any other scholarship awarded by the University. A minimum of scholarship standing is required and the process is very competitive. Applications for the scholarship may be obtained from the Scholarships and Awards Office, Room 4018, University Centre, or by telephoning (709) 864-3956 or through the website at www.mun.ca/scholarships. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Schulich Leader Scholarship

Schulich Leader Scholarships are undergraduate entrance scholarships for students enrolling in the **STEM** (Science, Technology, Engineering, Mathematics) areas of study at 20 selected universities. All Canadian high schools, secondary schools and CEGEPs (in Quebec) may submit one Schulich Leader Nominee each. Schulich Leader Nominees are selected by their schools based on two of three criteria: outstanding community/business leadership, academic excellence and financial need. Once a Schulich Leader Nominee is selected, he/she can apply his/her nomination to the participating universities in Canada where they intend to submit formal applications for undergraduate study. All participating universities are responsible for making the final selection of their Schulich Leaders for their respective institution. In 2012, a maximum of 40 Canadian Schulich Leaders will be selected; in 2013 and thereafter there will be 60 Canadian Schulich Leaders. Each entrance scholarship is valued at \$60,000 CAD and will be indexed to inflation. The scholarship is distributed during each Schulich Leader's term of undergraduate study. The granting of scholarships will start with the academic year commencing in Fall 2012.

The Dr. Evan Simpson Aboriginal Undergraduate Entrance Scholarship

The University will award up to four entrance scholarships valued at \$1,000 each to Aboriginal residents of Newfoundland and Labrador. Eligible students must be in scholarship standing, have not received another University-administered entrance scholarship of equal or greater value, be enrolled as a full-time undergraduate student at Memorial University of Newfoundland and provide confirmation of their Aboriginal status. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. An application may be obtained in writing or in-person to Scholarships and Awards Office, Room 4018, Smallwood Centre, Memorial University of Newfoundland, St. John's, NL A1C 5S7 or by telephone to (709) 864-3956.

The Wesley and Daisy Snelgrove Memorial Scholarship

This scholarship fund is established through a generous gift from members of the family of Wesley and Daisy Snelgrove and will provide two scholarships annually, valued at a portion of the income from the endowment. To be eligible, students must be Level III graduates from Baccalieu Collegiate in Old Perlican and must be entering full-time studies at Memorial University of Newfoundland (including the Fisheries and Marine Institute), pursuing an undergraduate degree and have scholarship standing. One scholarship, valued at 60% of the spendable earnings, will be awarded to the eligible student with the highest academic average. The second scholarship, valued at 40% of the spendable earnings, will be awarded to the eligible student with the second highest average. Both of the scholarships should be awarded even if the students have received another entrance scholarship from the University. In the event that there are no entering students from Baccalieu Collegiate in a given year, successful recipients from previous years who are currently enrolled at Memorial University of Newfoundland will be considered based on scholarship standing. In the event that no such students are entering or attending this University, the scholarships will be awarded to students from the Federal Electoral District in which Grates Cove is located. In the latter case, if possible, the first scholarship will be awarded to the student who is entering the School of Nursing with the highest academic average and the second to a student entering into their first year in the Faculty of Education with the highest academic average. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Marie Sullivan (1917-2003) Scholarship

This scholarship, valued at a minimum of \$5,000.00, has been established by Mrs. Sullivan's eleven children. All attended Memorial University of Newfoundland after completing high school in Baie Verte. The scholarship is in recognition of and appreciation for their mother's unwavering commitment to her family and her encouragement to pursue a higher education. It will be awarded to an entrance student on the basis of scholarship standing and financial need.

The Swimming Newfoundland and Labrador Entrance Scholarship

This scholarship, valued at \$1,000.00 annually, is available to a first year student who will attend Memorial University of Newfoundland and be a member of the Memorial University of Newfoundland Seahawks Varsity Swim Team. The scholarship recipient will have been a competitive swimmer in the Province of Newfoundland and Labrador for a minimum of three years and be a swimmer in good standing

with Swimming Newfoundland and Labrador. This scholarship will be awarded on the basis of scholarship standing, however, in deciding on candidates of equal academic standing, financial need may be used as a determining factor. Applications may be obtained in writing to the Swimming Newfoundland and Labrador office, RPO MacDonald Drive, Box 21248, St. John's, NL, A1A 5B2, or telephone to (709) 576-7946, or by fax to (709) 576-7493.

The TD Bank Financial Group Bursary

The TD Bank Financial Group has established this bursary as part of their commitment to helping students succeed in their post-secondary studies. The bursary is available to part-time or full-time students at Memorial University of Newfoundland who demonstrate financial need. Recipients may be residents of any province or territory in Canada. Valued at the interest on the endowment, the bursary will be awarded to entrance students in any field of study.

Arthur W. Toms Scholarship

This Scholarship was established by the family of the late Arthur W. Toms who was a farmer, fisherman, Co-op Field Officer, Rural Development Officer, Mayor, and Justice of the Peace, and who played a significant and leading role in the development of La Scie and other communities along the northeast coast of Newfoundland. Valued at a portion of the income on the investment, this scholarship will be awarded based on scholarship standing to a student entering Memorial University of Newfoundland as a full-time student. The scholarship will be open to students from Cape John Collegiate, La Scie, NL. If no suitable candidate is available from Cape John Collegiate preference will be given to students from the Baie Verte Peninsula. If no suitable candidate is available from the Baie Verte Peninsula preference will be given to students from Newfoundland and Labrador. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The James Tucker Memorial Scholarship

This scholarship is the result of an endowment which began in 1997 as a part of the *Opportunity Fund Campaign*. The fund will provide a scholarship valued at a minimum of \$500 to students who are children, grandchildren, nieces, nephews or spouses of current, retired or deceased employees or former employees with a minimum of five years service in the Department of Technical Services, Memorial University of Newfoundland. Preference in awarding the scholarship will be given to entrance students but undergraduates may also qualify. The scholarship will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709) 864-3956.

The George Weston Entrance Bursary

This bursary, valued at a minimum of \$1,000.00, will be awarded annually to a Memorial University of Newfoundland entrance student on the basis of scholarship standing and need. It will be renewable for up to four years (initial + 3) providing first class and scholarship standing is maintained and the recipient continues his/her studies in a Bachelor of Arts or a Bachelor of Science. This bursary will be awarded to a student who was born in one of the Atlantic Provinces.

The Women's Association of Memorial University of Newfoundland Faculty/Staff Scholarship

The Women's Association of Memorial University of Newfoundland (WAMUN) has established a \$1,200.00 annual scholarship available to students in any faculty or year at Memorial University of Newfoundland, providing they are either:

- a. children of full-time faculty or staff; or
- b. children of deceased or retired faculty or staff, who at the time of death or retirement, were employed full-time.

This scholarship is based on scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Women's Association of Memorial University of Newfoundland Single Parent Undergraduate Scholarship

This scholarship, valued at \$1,200.00, is awarded annually from funds donated by the Women's Association of Memorial University of Newfoundland. It is restricted to single parents enrolled in any faculty, school or year of study at Memorial University of Newfoundland. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of financial need and scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Marjorie Wyght-Barre Memorial Scholarship

This scholarship, named in memory of Mrs. Marjorie Wyght-Barre (1907-1965) of Montreal, is the result of an endowment created by her husband, Major P.H. Barre. This scholarship, valued at the annual accrued interest on the initial endowment, is to be awarded annually to a Memorial University of Newfoundland entrance student from Newfoundland and Labrador. It will be awarded on the basis of scholarship standing and financial need.

The James W. Youden Bursary

This bursary, valued at a portion of the income from the endowment, is a result of a generous donation by James W. Youden from Chamberlains, NL. Though not a graduate of Memorial University of Newfoundland, Mr. Youden's children are all alumni, and Mr. Youden holds a firm belief in the value and power of a university education to transform lives. The bursary recipient will be a full-time undergraduate student in his or her first year of study, with demonstrated financial need and in good academic standing. Preference will be given to students entering either the Faculty of Arts or Education. The recipient must reside in an area of Newfoundland and Labrador outside of metropolitan St. John's and Corner Brook. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

4 Scholarships, Bursaries, and Awards Administered By the Senate Committee on Undergraduate Scholarships, Bursaries and Awards for Which Undergraduate Students Already in Attendance at the University May Qualify

4.1 General

The following are not specific to an academic discipline.

Affinity NL (Ottawa) Scholarship

This scholarship is made possible by the fund raising efforts of the Ottawa Affinity Newfoundland and Labrador group and is valued at a portion of the income on the investment according to Memorial University of Newfoundland's Awards Program Spending Policy. Based on scholarship standing (academic excellence), it will be awarded in an alternating fashion to a first year undergraduate student (entering their second year) and then a first-year graduate student (entering the first year of either a Master's or Ph.D. program). The student must be from a rural community in Newfoundland and Labrador, express an interest in returning to work in rural Newfoundland, and be registered for full-time studies at Memorial University of Newfoundland. Rural is defined as outside St. John's and Corner Brook

as determined by the Centre for Institutional Analysis and Planning, or an equivalent University or Government body. When awarded to an undergraduate student, the Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. When awarded to a graduate student, it will be awarded by the Dean of Graduate Studies upon the recommendation of the Awards and Medals Committee.

The Arnold's Cove, Come By Chance, North Harbour Fishers and Newfoundland Transshipment Scholarship

This scholarship was established by Newfoundland Transshipment Limited (NTL) as part of an agreement between them and the Fishers Liaison Committee (FLC) of the Arnold's Cove, Come By Chance and the North Harbour area. This scholarship, valued at the annual interest on the initial endowment to a maximum of \$500 per student, will be awarded on the basis of scholarship standing to a Fisher or his/her descendant(s) who is registered as a full-time student at Memorial University of Newfoundland in any year or field of study. In the event that no applicants are received from Fishers or Fishers' descendants in a given year, the scholarship may be awarded to another student from above noted geographic areas. Eligibility of applicants under the above criteria will be verified by the Fisheries Liaison Committee (FLC). Memorial University of Newfoundland is encouraged to ensure that the scholarship is alternated between communities and their eligible students. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of an application which may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956. Completed applications must be returned to the FLC for appropriate verification.

The Ashbridge Scholarships/Bursaries

These awards, at least three at \$500.00 each, are tenable to students beyond the first-year level of undergraduate programs. They are awarded on the basis of need and scholarship standing.

Baccalieu Trail Scholarship

This scholarship, valued at a portion of the income on the endowment, is made possible by the fund raising efforts of the Baccalieu Trail Chapter of the Alumni Association of Memorial University of Newfoundland. Based on scholarship standing the scholarship will be awarded to a student who is a resident of the Baccalieu Trail Region or has been a permanent resident of the region for the completion of their secondary education. The student must have successfully completed their first year of study and be entering second year of full-time study at Memorial University of Newfoundland. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Baird-Stephenson Scholarship

This Scholarship, valued at \$1,000.00 is to be awarded annually to a Memorial University of Newfoundland student in any year or field of study. It is named for Mrs. Edna Baird-Stephenson and her late husband, both of whom were former members of Memorial University of Newfoundland's faculty. The Scholarship will be awarded on the basis of academic excellence.

The Donald M. Balsom Award

The Newfoundland Brain Injury Association (NBIA) has established this award to honour Donald M. Balsom, former Associate Director of Memorial University of Newfoundland's School of Continuing Education and brain injury survivor. Valued at \$500.00, it will be awarded annually to a brain injured undergraduate student who is registered either part-time or full-time, in any year or field of study at Memorial University of Newfoundland, who has some volunteer experience with the NBIA and who is in clear academic standing at the University. In the event that no applications are received from brain injured students the award may be given to a student who has made a significant contribution as a volunteer to the Brain Injury Association. In special circumstances, the award may be held for more than one year. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards in consultation with NBIA as needed.

Barnes House Bursaries

Two bursaries of \$600.00 each have been donated by Dr. Charles Loader former Proctor of Barnes House and are tenable only by residents of Barnes House, Paton College, who have resided in the House for at least one semester prior to application. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of a committee established by the Proctor of Barnes House. In making the awards, financial need and academic performance in the previous year will be taken into consideration. The bursaries will not be given to students who hold other major awards and will be paid in two equal instalments over two semester, payment in the second semester being dependent upon the recipients maintaining at least a "B" average. If there are no suitable candidates, the bursaries will not be awarded.

Applications are available from the Residence Assistants, the Proctor or the Paton College Office. The deadline date for application is March 15.

The Birks Family Foundation Bursaries

The Birks Family Foundation has established a plan of annual contributions to the student aid funds of recognized Canadian universities for the creation of the Birks Family Foundation Bursaries. The Bursaries are awarded by the Foundation on the recommendation of the Senate Committee on Undergraduate Scholarships, Bursaries and Awards and are not restricted to faculty or year and may be renewed. The number and amount of such awards may vary annually, depending upon the funds available for the purpose from the Foundation.

The Glenn Roy Blundon Memorial Scholarship

This scholarship, valued at \$500.00, has been established by the family, friends and fellow students of the late Glenn Roy Blundon, a former student of Memorial University of Newfoundland who, despite his severe physical disability, succeeded in his studies and made a significant contribution to student life. In the awarding of this scholarship, preference will be given to academically qualified students with disabilities but those enrolled in the Special Education Program may be considered when no candidates are available from the first group. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Gary Bourne Memorial Scholarship

This scholarship is the result of an endowment to the University funded largely by donations resulting from fundraising efforts of Gary's colleagues at the Office of Financial and Administrative Services. Valued at a portion of the annual accrued interest on the endowment it will be awarded on the basis of scholarship standing to an undergraduate student who is a dependent of a current, retired or deceased staff member of Memorial University of Newfoundland. An application is required and may be obtained from the Scholarships, Bursaries and Awards Office. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Doctor William Boyle Scholarships

Under the will of the late Dr. Robert William Boyle, the University, in 1956, received bequests establishing two scholarships, one in memory of the testator's mother, Sophie (Maddock) Boyle, to be awarded to a female student attending the University; and the other in memory of his father, Albert Desbrisay Boyle, to be awarded to a male student attending the University. The scholarships are to be awarded to the students who, having attended the University for a period of at least two years, are, in the opinion of the governing body of the University, best qualified in virtue of all-round attainment. Each scholarship will be tenable for two years and the emolument will be the income accruing from the bequest during the period of tenure of the scholarship.

The Burke House Scholarship

One bursary of \$700.00 is tenable by a resident of Burke House, Paton College, who has resided in the House for at least two semesters prior to application. In making the award, financial need, academic performance, and leadership contribution will be taken into consideration. The bursary will be awarded to a student who does not hold a concurrent major award and will be paid in two equal installments over a two-semester period, payment in the second semester being dependent on the recipient maintaining at least a "B" average. If in any year there is no suitable candidate, the bursary will not be awarded for that year. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of a committee established by the Proctor of Burke House. Application forms are available from the Academic Don, the Proctor, or the Paton College Student Housing Office.

The Calgary Alumni Scholarship

This scholarship is being established through the fund raising efforts of the Calgary Alumni Branch of the Memorial University of Newfoundland Alumni Association. The scholarship, valued at a portion of the income on the investment, will be available to an undergraduate student, beyond first year, in any field of study who is a resident of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a minimum of twelve months immediately prior to entering the University) and who demonstrates academic excellence. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Canadian Federation of University Women St. John's Bursaries

Two bursaries, valued at \$1500.00 each, are offered annually by the Canadian Federation of University Women (CFUW) St. John's to female students in full-time or part-time studies. The awards are made on the basis of scholarship standing and financial need and are not restricted to any particular faculty or year of study. The first of these bursaries is named in memory of Dr. Edith M. Manuel, well-known Newfoundland educator and charter member of CFUW St. John's who died in 1984. The second is named for Olga Anderson, a long-time member of CFUW St. John's. Further information regarding the CFUW is available at www.cfuw.org.

The Canadian Institute of Mining, Metallurgy and Petroleum (Newfoundland Branch) Golden Jubilee Scholarship

This scholarship valued at a portion of the income on the investment, will be awarded to a student entering the final year of undergraduate studies at Memorial University of Newfoundland. Based on scholarship standing, the scholarship will be available to a student majoring in a field of study that is covered by the fields of interest of the Canadian Institute of Mining, Metallurgy and Petroleum specifically; Earth Sciences, Geophysics, Geography, Economics, Environmental Science, Engineering, Business and Commerce. Financial need may be taken into consideration. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Chow-Fagan Scholarship for Single Mothers

This scholarship, valued at \$1,000 annually was established by Deborah Chow-Fagan. To be eligible, candidates must be single mothers who are full-time undergraduate students; preference will be given to students who have scholarship standing. If no full-time students are eligible in a given year, second preference will be given to a part-time student who is a single mother. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a special application which may be obtained from the Scholarships and Awards Office, Room 4018, University Centre, or by calling (709) 864-3956.

The Marion (Ward Hue) Christian Memorial Scholarship

This scholarship, valued at a portion of the income from the endowment, is the result of a generous donation by Dr. David Ward, and is established in memory of his mother, Marion (Ward Hue) Christian. Originally from Trinity, Trinity Bay, Marion worked with the Department of Public Health helping elderly adults learn to read before going on to Columbia University and Emory College to study special education and geriatrics. She later served as the Deputy Director of the Hoyles Home, St. John's until her retirement. The scholarship recipient will be a full-time undergraduate student beyond first year who must demonstrate financial need as well as scholarship standing. The student must be from an area of Newfoundland and Labrador outside of metropolitan St. John's and Corner Brook. Although students in all areas of study are eligible, preference will be given to those studying in the sciences. The Scholarship will be awarded by the Committee on Undergraduate Scholarships, Bursaries and Awards.

The Coca-Cola Scholarship for International Studies

This scholarship, valued at the annual interest on its endowment, has been established from contributions to the University's *Opportunity Fund* Campaign by The Coca-Cola Foundation. It will be awarded to a student who has completed at least two years of a degree program at Memorial University of Newfoundland and who has been accepted to attend a recognized university outside Canada for one or two semesters of study for transfer credit to Memorial University of Newfoundland towards completion of his/her undergraduate degree.

The Compass Group Canada Scholarship

From a sum of money donated by Compass Group Canada, a scholarship fund has been established for students who reside in Paton College, who have completed their second year of studies while in residence and who will return to residence for their third year. The awards, valued at a minimum of \$1,000.00, will be made annually on the basis of academic excellence. The purpose of the scholarship is to encourage senior students of high academic calibre to live in residence.

The Computing and Communications Scholarship

This scholarship has been established by the Department of Computing and Communications (C&C) at Memorial University of Newfoundland in support of the dependants of its staff members. To be eligible the recipient must have scholarship standing, be a full-time undergraduate student and be a dependant of a current, retired, deceased, or former (having worked in the unit for a minimum of 5 years) employee of C&C or be a current student employee of the Department. One or more scholarships may be awarded in any given year. In the absence of a candidate meeting the above criteria, the scholarship will be awarded to a student beyond first year majoring in Computer Science in the Faculty of Science or a student in the Faculty of Business Administration. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, or by telephone to (709) 864-3956. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Raymond J. Condon Memorial Alumni Scholarship

This scholarship, valued at \$1,000.00, will be awarded to a student who has completed the first year College Transfer Program at the Labrador West Campus of the College of the North Atlantic and is transferring to Memorial University of Newfoundland the following year. The recipient must be of scholarship standing as defined by the University. The Senate Committee on Undergraduate Scholarships, Bursaries and Awards will award the scholarship upon recommendation of the Principal, Labrador West Campus.

Construction Labour Relations Association of Newfoundland and Labrador Inc. (CLRA) Scholarship

These five scholarships, valued at \$1,000 each, were established through a donation from the Construction Labour Relations Association of Newfoundland and Labrador (CLRA). Three of the five scholarships are entrance scholarships and two scholarships will be available to full-time students in any year of any program. They will be available to dependents (sons, daughters or wards), or employees of CLRA member companies. Students must complete an application form provided by CLRA. Based on scholarship standing, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Clayton and Alice Cook Scholarship

This scholarship has been established by Mr. Clayton D. Cook, retired Newfoundland/CN Railway Trainman. The scholarship will be valued at a portion of the income on the endowment and awarded annually. To be eligible, candidates must be enrolled full-time in an undergraduate program at Memorial University of Newfoundland, be residents of Newfoundland and Labrador (as defined by the University) and have scholarship standing. First preference will be given to candidates who are sons, daughters, grandchildren, great-grandchildren or wards of the Newfoundland/CN Railway Trainmen. When an eligible student meeting these criteria cannot be identified, second preference will be given to students enrolled in the Newfoundland Studies program. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required to identify students in the first category and may be obtained from the Scholarships and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Country Ribbon Scholarship

This scholarship is available to dependants (sons, daughters or wards) of employees of Country Ribbon. Valued at \$1,000.00 annually it will be awarded, with first preference, to an entrance student registered for full-time studies at Memorial University of Newfoundland. If no suitable candidate can be identified from the first group the scholarship may be awarded to an undergraduate student registered for full-time studies at Memorial University of Newfoundland. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required and may be obtained from the Scholarships and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Crowley Bursaries

These bursaries, one or more valued at a minimum of \$1,000.00 each annually, are the result of the interest on an endowment to the University by Mr. Ronald Crowley. In awarding these bursaries preference will be given to undergraduate sons or daughters of fisherpersons whenever possible. However, when such candidates cannot be identified the bursaries will be awarded to other eligible undergraduate students at Memorial University of Newfoundland. In both cases candidates may be in any year or field of study. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and financial need as defined by the University.

The Reverend Doctor Levi Curtis Bursary

This bursary has a value of at least \$200.00 and is awarded each year to a student who is a candidate for the ministry of the United Church, a child of a minister of the United Church, or the child of a needy United Churchman. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Donald W.K. Dawe Memorial Scholarship

This annual scholarship, valued at \$500.00, has been established by the family, friends and associates of the late Donald W.K. Dawe, Q.C., who attended the Memorial University College in 1933-34. In making the award, preference may be given in the first instance to a needy and academically qualified student beyond the first year from outport Newfoundland and Labrador.

Director's Award for Exemplary Work Terms

Four awards will be offered annually to students enrolled in full-time co-operative education programs at the undergraduate and graduate level at Memorial University of Newfoundland. One award will be made for each of the Engineering, Business, Human Kinetics and Recreation programs, and one award for one of the Co-operative Education programs in the Arts and Science portfolio which currently include: Applied Social Psychology, Computer Industry Internship Option, Economics, Masters of Computer Science, Masters of Environmental science, Masters of Political Science, Masters of Folklore, Political Science and Psychology. The recipients will receive a framed certificate and their names will be inscribed on a permanent plaque mounted in the Division of Co-operative Education. Nominations will be made by the co-operative education Co-ordinators of the students' respective Faculty or School to the Director of Co-operative Education. Nominations may also be made by employers. The deadline for nominations is January 30. The awards will be presented during National Co-operative Education Week. Only students who have completed a work term in the previous calendar year and have obtained a Pass with Distinction or its equivalent, in both the work performance evaluation and the communication component of the work term are eligible. In the case of undergraduates the award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of the graduates the award will be made by the School of Graduate Studies. In both cases these will be made on the recommendation of the Director of Co-operative Education.

The Vivian Douglas Memorial Scholarship

This scholarship has been established from a donation to the University by Mrs. Edna Baird-Stephenson in honour of her housekeeper Mrs. Vivian Douglas from Grand Bank. It is valued at the annual accrued interest on the initial donation and will be awarded to a student beyond first year in any field of study. It will be awarded annually on the basis of scholarship standing and financial need.

The Doyle House Awards

These awards are the result of fundraising by the Doyle House Academic Committee. Three, valued at \$100.00 each, will be awarded annually to residents of Doyle House. They will be awarded in the Winter semester of each year as follows:

- Highest senior resident average; to a resident of Doyle House who has resided there two consecutive semesters prior to receiving the award and who has a minimum of 70% average.
- Highest freshman resident average; to a student who had resided in Doyle House for the current and previous semester and who had a minimum of 70% average in the Fall Semester.
- Most improved average; to a student who has shown the greatest academic improvement during the most recent two semesters, who has been a resident of Doyle house for two consecutive semesters prior to receiving the award and who has a minimum of 70% average in the most recent semester he/she must have achieved at least a 50% average.

These awards will be made by the Committee in Undergraduate Scholarships, Bursaries and Awards acting upon a recommendation from a committee representing Student Housing, Food and Conference Services and Doyle House. Additional information can be obtained from the Residence Assistants, Academic Don or Proctor of Doyle House.

The Dr. J. Douglas Eaton Scholarships

Upon the retirement of Dr. J. Douglas Eaton from the position of Vice-President (Student Affairs & Services) in 1983, the student body of Memorial University of Newfoundland donated a sum of money to fund two undergraduate scholarships in his honour, valued at \$500.00 each. These awards, tenable to students beyond first year will be made on the basis of academic standing and demonstrated active participation in student life. In cases of competition between students of equal standing, need shall be the determining factor in awarding the scholarships. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of a special selection committee, consisting of members of MUNSU and the Office of Student Affairs & Services.

The Fraser Edison Scholarship

This scholarship is the result of a donation to the *Opportunity Fund* in 1999 by Mr. Fraser Edison. It will be valued at the annual interest on the endowment and will be awarded to an undergraduate student who has a recognized physical disability. An application is required and the scholarship will be awarded on the basis of scholarship standing to a student in any year or field of study. A special application

is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Facilities Management Undergraduate Scholarship

This scholarship fund is the result of an endowment which began in 1996 as a part of the *Opportunity Fund Campaign*. The fund will provide one or more scholarships valued at a minimum of \$500 each to students who are children, grandchildren, nieces, nephews, brothers, sisters or spouses of current or retired employees of the Department of Facilities Management, Memorial University of Newfoundland. Preference in awarding the scholarship(s) will be given to entrance students but undergraduates may also qualify. The scholarship(s) will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709) 864-3956.

The Ralph L. Finley Scholarships

Under the will of the late Mr. Ralph L. Finley, the University in 1987 received a bequest establishing two scholarships. The awards are to be tenable to needy undergraduate students, residing in the University residences during the academic year, who attain a minimum average of 70%. The value of the awards will depend on the income accruing from the bequest during the period of tenure of the scholarships. The amounts to be awarded are to be applied to the recipients' tuition and/or residence fees.

The Charlie (Moo Sic) Fong Memorial Scholarship

This scholarship, valued at the annual interest (approximately \$600.00 - \$700.00 annually), is the result of an endowment by the Fong family in memory of their great-grandfather, Mr. Charlie (Moo Sic) Fong. It was established to commemorate the 100th anniversary of the first Chinese settler in Newfoundland and to promote an awareness of the Chinese Cultural and Historical background in the province. It will be awarded on the basis of scholarship standing and financial need to an undergraduate student at Memorial University of Newfoundland with a Chinese heritage. The scholarship will be given early in Winter semester and presented to the student at a local function held to celebrate the Chinese New Year. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Dr. G.A. Frecker Memorial Alumni Bursaries

The Memorial University of Newfoundland Alumni Association has established, from its Annual Fund, five bursaries named in honour of the late Dr. G.A. Frecker, Chancellor, Memorial University of Newfoundland, 1971-79, and valued at \$500.00 each. Four of the bursaries are tenable at the St. John's campus and one at the Grenfell Campus at Corner Brook. The bursaries will be awarded annually to full-time students in any faculty or year on the basis of academic standing and financial need.

Friends of India Association Scholarship

This award, valued at \$500.00, is awarded annually from funds donated by the Friends of India Association. The scholarship is open to any student registered at Memorial University of Newfoundland who is beyond first year studies. This scholarship will be awarded on the basis of scholarship standing.

The General Motors Undergraduate Scholarship

This scholarship was established by General Motors of Canada Limited with contributions to the University's *Opportunity Fund Campaign*. Interest from the fund will provide one or more scholarships to support individuals who qualify as Native People, members of a Visible Minority and/or Physically Disabled. It will be awarded to students in any year or faculty or school at Memorial University of Newfoundland. It will be awarded on the basis of scholarship standing and an application may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Joan Haire Memorial Scholarship

This scholarship is the result of an endowment which began in 1997 as a part of the *Opportunity Fund Campaign*. The fund will provide a scholarship valued at a minimum of \$500 to students who are children, grandchildren, nieces, nephews or spouses of current, retired or deceased employees or former employees with a minimum of five years service in the Department of Technical Services, Memorial University of Newfoundland. Preference in awarding the scholarship will be given to entrance students but undergraduates may also qualify. The scholarship will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709)864-3956.

The Frederick J. Hancock Scholarship

This scholarship is the interest on a sum of money donated to the University by Frederick J. Hancock, former Sergeant of the Newfoundland Constabulary who served as a member of the Force for twenty-five years until his retirement in 1963. Preference in the awarding of this scholarship will be given to sons and daughters of active, retired or deceased members of the Royal Newfoundland Constabulary. Candidates must be enrolled in full-time studies at the University and possess scholarship standing. When no candidates can be found from the above category, the scholarship may be awarded to any full-time student on the basis of academic merit. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The A. Harvey & Company Limited Scholarship Program

On the occasion of its 125th anniversary, A. Harvey & Company Limited established this scholarship tenable at Memorial University of Newfoundland and valued at \$1,500.00. In order to qualify candidates must:

- a. Be a dependent or spouse of employees of the company;
- b. Be enrolled as a full-time student;
- c. Possess scholarship standing as defined by the University; and
- d. Hold no other concurrent scholarship.

Preference will be given to entrance students; however, if there is no eligible candidate enrolled in first year studies, then the scholarship may be awarded to a senior undergraduate student attending Memorial University of Newfoundland who fulfills the above criteria. In deciding between candidates of equal academic attainment need will be the determining factor. The deadline date for applying is the last Friday in July. Further information and application forms are available in writing to A. Harvey & Company Limited, 87 Water Street, P.O. Box 5128, St. John's, NL, A1C 5V6

The C.D. Howe Memorial Foundation Scholarship

These scholarships result from a contribution by the C.D. Howe Memorial Foundation. The Annual income from this endowment will be utilized to fund up to six scholarships valued at the cost of one year's tuition for full-time students, the amount varying depending on the number of courses taken. The scholarships will be awarded to undergraduate students entering second, third, fourth or fifth years of study in any undergraduate program. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing, financial need, and a recommendation from the appropriate Dean or academic Director.

The Kathleen Huckabone Bursary

This bursary was established by the family of Kathleen Huckabone in August, 2004 as a special tribute, on the occasion of her 70th birthday. Valued at \$2,000.00 and awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, it is given to a first year student at Memorial University of Newfoundland who is a graduate of a high school in the Eastport/Salvage area, is in need of financial assistance and has completed one semester of full-time studies with satisfactory standing. If no candidates meet the foregoing criteria, the bursary may be awarded to an undergraduate student from the Eastport/Salvage area in any year of study at Memorial University of Newfoundland.

The Kevin Hutchings Memorial Scholarship for the Royal Newfoundland Regiment

This scholarship was established by the family of Kevin Hutchings who, from 2004 until his death in 2009, held the position of Honorary Lieutenant-Colonel of the First Battalion of the Royal Newfoundland Regiment. Valued at \$2000 per year, the scholarship will be awarded to a full-time undergraduate student who is an active parading member of the Royal Newfoundland Regiment (1st, 2nd Battalion or Band) who meets scholarship standing as defined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. An application form is required and may be obtained from the Scholarships, Bursaries and Awards Office.

The Bishop Jones Memorial Hostel Group Scholarship

This scholarship was established by the Bishop Jones Hostel Group. The scholarship, valued at a portion of the income from the endowment, will be awarded annually to a female student who meets the minimum academic requirements for a scholarship and is enrolled full-time in her second year of study at Memorial University of Newfoundland. It is open to residents of Newfoundland and Labrador whose permanent address is outside the metro region of the campus they are attending. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Ethel H. Judson Memorial Scholarship

This scholarship, valued at the annual interest on the endowment, has been established by Mrs. Edna Baird-Stephenson in memory of her late sister Ethel. It will be awarded annually to a Memorial University of Newfoundland student in any year or field of study. The scholarship will be awarded on the basis of academic excellence.

Key Tag Scholarships

Up to three scholarships, valued at \$500.00 per annum, are donated by the Newfoundland Branch of the War Amputees of Canada, and are to be known as the Key Tag Scholarships. These scholarships are awarded annually to amputee students in any year or field of study at Memorial University of Newfoundland. In the event that no applications are received from amputee students, the Committee may consider other physically disabled students. In making the awards, financial need, initiative and scholastic achievement will be considered. In special circumstances, the scholarships may be held for more than one year. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Iris Kirby Memorial Scholarship

This award, valued at \$650.00 annually, has been established by the friends and colleagues of the late Iris Kirby. Iris was an active feminist and advocate of encouraging women to develop their fullest potential. The scholarship is open to women enrolling in full-time undergraduate studies at Memorial University of Newfoundland who are entering or returning after at least five years out of full-time study. Applicants should have been resident in Newfoundland for at least one year before applying. The scholarship will be awarded in the Winter semester on the basis of the Fall semester's results. In deciding on candidates of equal academic attainment, a commitment to the goal of an equal status for women in our society will be considered. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Korea Veterans' Association Scholarship

Twenty-six thousand, seven hundred and ninety-one (26,791) Canadians served in the Korean Theatre between the beginning of hostilities in 1950 and the signing of the cease-fire in 1953. Another 7,000 served between the cease-fire and the end of 1955. This scholarship was established to honour the men and women of the various Canadian Military Units that served in the United Nations Forces during that period of time. One scholarship of \$500 is awarded annually to a student who meets the following criteria: A full-time first year student at Memorial University of Newfoundland who is the child or grandchild of a Canadian Korea War Veteran and who has scholarship standing. In a year when there is no eligible child or grandchild in first year, the scholarship may be awarded to a child or grandchild beyond first year studies. If there is still no eligible student, the scholarship may be awarded to any first year student at Memorial who has scholarship standing. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of an application which is available from the Scholarships, Bursaries and Awards Office, Rm. 4018, University Centre.

Law Foundation of Newfoundland and Labrador Legal Research Awards for Students of Memorial University

The Law Foundation of Newfoundland and Labrador annually offers up to five Legal Research Awards valued at \$500 each to students at Memorial University of Newfoundland. The Awards are for outstanding research papers on one or more legal issues, or topics treated in a legal context, in a senior level course in any discipline at the undergraduate level and in any graduate course for students at the graduate level. The papers submitted by and with endorsement of course professor or lecturer will be judged initially by the Dean, Director, or Department Head who will make a recommendation to a special selection committee comprised of appointees of Memorial University of Newfoundland and the Law Foundation. Undergraduate students will receive a minimum of two and graduate students will receive one or more of the five Awards available annually. In the case of undergraduate students the Awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduate students the Awards will be made by the Dean, School of Graduate Studies. In both cases they will act upon the recommendation of the Foundation's selection committee. Please note that papers, if available on computer, must also be submitted in electronic format. An additional \$500 will be provided annually by the Law Foundation to Queen Elizabeth II Library for the purchase of research materials and resources. Total Awards \$3,000.

The Locke's Electrical Limited 50th Anniversary Scholarship

This scholarship is the result of an endowment established by Locke's Electrical Limited, Corner Brook, on the occasion of their 50th anniversary. Valued at the interest on the endowment, it will be awarded on the basis of scholarship standing to an undergraduate student in any year of study who is a child or grandchild of a current or retired staff member of Locke's Electrical Limited or one of its affiliates. If the scholarship is not awarded in one year then two may be awarded the following year. An application is required and may be obtained from, and returned to, Locke's Electrical Limited, Corner Brook.

The Dr. Wayne E. Ludlow Scholarship

This scholarship is the result of an endowment made by the undergraduate students of Memorial University of Newfoundland in honour of Dr. Wayne E. Ludlow on his retirement, in 1999, from the position of Dean of Student Affairs and Services. Valued at a portion of the income on the endowment, this scholarship is tenable to students beyond second year, based on scholarship standing and demonstrated active participation in student life. Factors to be considered will include but not be limited to involvement in student government, clubs and societies and student media. Financial need may also be considered. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of a selection committee of

members of MUNSU and the Office of the Deputy Provost (Students) and Associate Vice- President (Academic) (Undergraduate Studies) *pro tempore*.

The Arthur and Sonia May Scholarship

The scholarship, which is expected to be between \$4,000 and \$5,000 (based on the annual interest on its endowment), has been established by Arthur and Sonia May on the occasion of the University's 50th Anniversary as a degree-granting institution, and in gratitude for the outstanding experience they enjoyed as students. It will be awarded to a student who has completed at least two years of a degree program at Memorial University of Newfoundland and who has been accepted to attend a recognized university outside Canada for one or two semesters of study for transfer credit to Memorial University of Newfoundland towards completion of his/her undergraduate degree. Applications may be made to the Scholarships, Bursaries and Awards Office, Room 4018, University Centre on or before the third Friday in June.

The Hector and Fanny McNeil Memorial Trust Fund Scholarships

From the interest accruing from this fund, at least two scholarships, at \$500.00 each, will be awarded annually to academically deserving students at Memorial University of Newfoundland beyond first year.

The Memorial University Golf Tournament Scholarship

This scholarship fund was established in 1998 as a result of entry fees and donations from corporate and individual participants in the Annual Memorial University Scholarship Golf Tournament. Proceeds from this tournament have developed an endowment that supports scholarships valued at a portion of the annual income on the investment. These scholarships will be awarded to second and third year undergraduate students based on scholarship standing, with the exact number of awards to be decided by the Golf Tournament Operations Committee each year. In an effort to ensure that, over time, awards are dispersed throughout the University's various academic units, only one scholarship per year will be awarded within an academic unit and none will be awarded in a given year to students from an academic unit that has been represented by a recipient in the past three years. Recipients may not be simultaneously in receipt of a general scholarship of equal or higher value at the time of the awarding of this scholarship. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Memorial University of Newfoundland Endowment Scholarships

These scholarships, established by Memorial University of Newfoundland are awarded annually to students in any year or faculty with approximately 50% of those awarded in a given year allocated for Entrance Students. The number and value of the annual scholarships vary depending on the interest earned. They are awarded on the basis of scholarship standing.

The Memorial University of Newfoundland Faculty Association Scholarship Fund

The Memorial University of Newfoundland Faculty Association has established a trust fund to provide scholarships and bursaries to needy students in good academic standing. Assistance from this fund is available to entering students as well as to those further along in their studies and may be re-applied for in subsequent years. The first of the MUNFA Scholarships awarded each year is the Ditte Koster Memorial Scholarship. This award honours the late Ditte Koster who, up to the time of her death, was a professional librarian at the University. As a contribution to the *Opportunity Fund* in 1999, the Faculty Association pledged to pay the University the interest from their trust for the period January 1, 2000 to March 31, 2004. The matching money from this pledge will be contributed to the University's general Scholarship Endowment Fund allowing the University to award additional general scholarships.

The Gloria Moores Memorial Bursary

This bursary was created in memory of Gloria Moores in recognition of her dedication and commitment to the Queen Elizabeth II Library. This bursary will be valued at \$500 and will be awarded annually. Full time undergraduate students in any year of any program at Memorial University of Newfoundland will be eligible. The recipient will have demonstrated financial need and must meet the minimum academic standing for a bursary at Memorial University of Newfoundland. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Elsa S. Morgan Memorial Scholarship

This scholarship, valued at \$500.00, was donated by the late Dr. John M. Morgan, B.Sc., M.D., in memory of his wife, Elsa S. Morgan. Dr. Morgan was born at Port-de-Grave, Conception Bay, Newfoundland and spent all of his professional life in the United States. The scholarship is awarded to a deserving student of scholarship standing who has completed the first year of studies and is proceeding to the second year. Preference will be given to students from the district of Port-de-Grave.

The Jacob and Floral Morgan Scholarship Fund

This fund has been established by relatives and friends of the late Jacob Morgan, a teacher for thirty years in the outports of this province, and of his wife Floral. One or more scholarships, valued at not less than \$2,500.00 each will be awarded annually. Preference will be given to students from the smaller outports, primarily to those who are entering the University for the first time.

The John Thomas and Amy Susannah Morgan Memorial Scholarship

This scholarship, valued at \$500.00, was donated by the late Dr. John M. Morgan, B.Sc., M.D., in memory of his parents, John Thomas and Amy Susannah Morgan. The scholarship is awarded to a deserving student of scholarship standing, who has completed his or her first year of studies and is proceeding to second year. Preference will be given to students from the district of Port-de-Grave/Harbour Grace.

The M.O. Morgan Alumni Scholarships

At least three scholarships valued at a minimum of \$1000.00 each, gifts of the Memorial University of Newfoundland Alumni Association, are awarded annually to students beyond first year on the basis of academic excellence.

Rick Morris Memorial Bursary

This bursary was established in memory of Rick Morris by his family and friends. Rick was a caring individual who was deeply committed to Newfoundland and worked with a variety of individuals, organizations, and government. He was a mentor to many helping professionals, who regularly sought his counsel on personal and professional issues. He was deeply concerned with violence against individuals, particularly women, children, and the survivors of Mount Cashel. He was involved in the establishment of Unified Family Court's mediation services and frequently collaborated with the aboriginal and senior's communities. The bursary, valued at a portion of the income from the endowment, will be awarded annually to a student who is in financial need and meets the minimum academic requirements for a bursary. It will be awarded on a rotating basis to a student enrolled in one of the following academic areas: Year 1- School of Social Work, Year 2- Faculty of Education, Year 3- School of Human Kinetics and Recreation, Year 4- Department of Gender Studies and Year 5- School of Nursing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Unit for which the bursary is being awarded.

The Edward G. Mullins Memorial Scholarship

This scholarship valued at \$500.00 annually has been established by the Newfoundland and Labrador Branch of the Kidney Foundation of Canada. It honours the memory of the late Edward G. Mullins who had kidney disease and was a dedicated volunteer of the Foundation. Successful applicants must be residents of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a minimum of twelve months immediately prior to entering the University). Preference will be given to applicants who have kidney disease, who have completed a minimum of 18 credit hours over two semesters in the previous scholarship

year with a minimum average of 75% in the courses which comprise those credit hours and are enrolled full time at the University. However, if in a given year such an applicant(s) is not available, dependents of someone who has/had kidney disease may qualify. Such applicants must be enrolled full time at Memorial University of Newfoundland and have scholarship standing. In deciding on candidates of equal academic attainment from the latter group, need may be the determining factor. In some cases the scholarship may be held for more than one year. A special application is required and must be submitted to the scholarship office. Applications may be obtained from The Kidney Foundation of Canada, Newfoundland & Labrador Branch, 58 Kenmount Rd. St. John's, NL, A1B 1W2, or by telephone to (709) 753-8999, or from the Scholarships and Awards Office, Room 4018, University Centre, Memorial University of Newfoundland or by telephone to (709) 864-3956.

The MUNSU Undergraduate Scholarship

This scholarship fund is the result of an endowment which began in 1996 as a part of the *Opportunity Fund* Campaign. The fund will provide a scholarship valued at the annual interest on the endowment, to students who are children, grandchildren, or spouses of current (worked a minimum of 15 of the last 24 months) or retired employees of MUNSU, Memorial University of Newfoundland or of previous employees who had a minimum of ten years of service to MUNSU. In the event that there are no eligible candidates from the above group in a given year the scholarship will be open to nieces or nephews of current, retired or previous employees of MUNSU (as per above). It will be open to entrance students as well as undergraduates. The scholarship is not renewable and individuals will not normally hold the scholarship more than once unless there is no other eligible candidate in a given year. The scholarship will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709) 864-3956.

The MUNSU 25th Anniversary Scholarship

This scholarship is the result of an endowment established by MUNSU (1994) and is valued at the annual accrued interest. It will be awarded to a student who has completed at least one year at Memorial University of Newfoundland. Based on scholarship standing and active participation in student life, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the President, MUNSU.

Harvey and Doris Murcell Scholarships

These scholarships have been established from funds donated by Harvey and Doris Murcell. Scholarships of at least \$1,000.00 shall be awarded under the following conditions:

- a. A scholarship to two entrance students who are residents of Harbour Grace who attended High School in Conception Bay North.
- b. Four scholarships to students of any year from high schools in the Conception Bay North area.
- c. Other scholarships as the fund will bear.

The scholarships shall be awarded based on scholarship standing.

The Augustine Nash Memorial Bursary

The Augustine Nash Memorial Bursary has been established by Edward Nash in memory of his father, Augustine Nash. Augustine was born in Branch, St. Mary's Bay and had thirteen children who attended Fatima Academy. Great emphasis was placed on the value of education in his household. To be eligible for this bursary a student must have graduated from Fatima Academy, in St. Bride's, NL and be enrolled in the first year of any program at Memorial University of Newfoundland. Selection is based on demonstrated financial need as well as academic merit. In the event that a qualified student from Fatima Academy is not available in a given year, the bursary may be given, under the same terms and conditions to a student who has graduated from a high school in the electoral district that serves Fatima Academy. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Newfoundland and Labrador Neurotrauma Initiative Award

This award, valued at a portion of the income on the investment, is made possible by a generous endowment from the Newfoundland and Labrador Neurotrauma Initiative Program, a partnership between the Rick Hansen Man in Motion Foundation, the Canadian Paraplegic Association, the Brain Injury Association and the Government of Newfoundland and Labrador. The award will be available on an annually rotating basis between undergraduate and graduate students, with first preference given to a student who has been identified with a brain or spinal cord injury. For undergraduate students applications are available from the Scholarships, Bursaries and Awards Office, Room UC4018, University Centre, (709) 864-3956. Graduate Students are required to apply specifically to the School of Graduate Studies, Room IIC 2021, Bruno Centre for Research and Innovation, (709) 864-2600. If no candidate is available with a brain or spinal cord injury, preference will be given to a student who is studying in any field related to neurotrauma. If it is not awarded at the level of study (i.e. graduate/undergraduate) on rotation in a given year, it may be awarded to a student studying at the other level for that year. In the case of undergraduates, the award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates it will be awarded by the Dean, School of Graduate Studies on the recommendation of the Awards and Medals Committee. This award is open to part-time or full-time students with clear academic standing.

The Elsie and Stephen O'Neill Bursary

The children of Elsie and Steve O'Neill established this bursary in appreciation of their parents' support and encouragement toward their higher education. The bursary, which will be valued at \$1000 annually, will be awarded to a single mother with first preference to a current part-time undergraduate student. She must also have been enrolled part-time for two or more semesters prior to the semester in which the scholarship is awarded, and have maintained a "B" average in those semesters. If no student meeting the above criteria can be identified, the bursary will be awarded to an undergraduate single mother who is currently registered at the university (part-time or full-time), who has maintained a "B" average in the courses completed in the previous scholarship year and has financial need. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Florence O'Neill Scholarships

An endowment donated to the University by Florence O'Neill, Ed.D., C.M., LL.D., honorary graduate of Memorial University of Newfoundland, distinguished for her contribution to the fields of adult education and community development, will fund annual scholarships valued up to \$1,000.00 each. These awards will be made available to full-time undergraduate students, preferably to those from rural Newfoundland and Labrador, on the basis of scholarship standing. One shall be given annually to a student attending the Grenfell Campus in Corner Brook.

Dermot O'Reilly Legacy Award

The award, valued at a portion of the income on the investment, is established through funds raised by family, friends and music lovers, in Dermot O'Reilly's memory after his untimely passing in 2007. Dermot chose to make Newfoundland his home in 1971 where he found here a kinship to the Dublin of his youth in the people, music and songs. Here, his life was music. He delighted in sharing music with others and was a mentor to many aspiring musicians. Dermot's friends and family carry on his legacy by creating this award to encourage and support the promotion of traditional music, oral tradition and dance in Newfoundland and Labrador. It will be given annually to a part-time or full-time student at Memorial University of Newfoundland enrolled in any year of any program of study that meets the academic requirements for an award as outlined by the University. Eligibility should be based on established support of traditional music, oral tradition or dance amongst Newfoundlanders and Labradorians. The successful candidate will be determined at

the discretion of the Dermot O'Reilly Legacy Award Selection Committee and will have made evident, either through actions or creative undertakings, contributions to the province by demonstrating leadership and creativity in the tradition-bearer community. To be considered, candidates must apply no later than February 1. Applications are available at the Undergraduate Scholarships and Awards Office and the School of Graduate Studies and must be accompanied by a resume of all relevant information including but not limited to: publications, research, recordings, projects, performances, etc. It will be awarded by either the Senate Committee on Undergraduate Scholarships, Bursaries and Awards or the Dean, School of Graduate Studies as appropriate based on the recommendation from the Committee.

Oil and Gas Week Scholarship

Valued at \$1,000 each, these undergraduate scholarships are established by a gift over three years from the organizers of Oil and Gas Week, a program of events held annually in St. John's, NL for the purpose of promoting the oil and gas industry. Two scholarships will be awarded each year. To be eligible, students must be enrolled full-time beyond the first year of an undergraduate program in the Department of Earth Sciences, the Faculty of Engineering and Applied Science, or the Faculty of Business Administration. Eligible candidates must also have scholarship standing and preference will be given to students who graduated from a high school in Newfoundland and Labrador outside of the metropolitan St. John's area. Each year the two recipients must be from different faculties, with each identified academic unit to be represented no more than twice in the three year period of the term of the fund. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on a recommendation from the appropriate academic discipline.

The R.A. Parsons Scholarship Fund

The purpose of this fund is to provide scholarships to students in good academic standing and in proven financial need. There are no restrictions as to year or field of study.

The John Lewis Paton Scholarship

This scholarship is awarded out of the income from the Fund established in 1926 by John Lewis Paton to enable graduates of the Memorial University College to continue university training. Known until 1946 as the Memorial University College Scholarship, it has been re-named to honour the memory of the first President of the College. This scholarship has a value of at least \$300.00. It is awarded annually to a student who has successfully completed three years of a degree course. In making the award, scholastic achievement and promise, qualities of character, economic need and other relevant factors will be taken into account.

The Rose Patten Single Mother Scholarship

This scholarship has been established by Ms. Patten to encourage and assist women to develop their full academic potential. Valued at the interest on the endowment, it is open to single mothers who are enrolled in full-time undergraduate studies at Memorial University of Newfoundland. It will be awarded taking into consideration financial need as well as scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Elaine Pitcher Memorial Scholarship

This scholarship is the result of an endowment to the University from a bequest left by Elaine Pitcher, a donation from Xerox Canada and donations from family, friends and colleagues of Elaine. Valued at a portion of the annual accrued interest on the endowment, it will be awarded on the basis of scholarship standing to an undergraduate student who is a child of a current or retired staff member of Memorial University of Newfoundland. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Pro Vice-Chancellor's Prize

The Strategic Framework for Memorial University of Newfoundland states that Memorial will enrich undergraduate education by helping students to experience the excitement of intellectual discovery, introducing undergraduates more effectively to the wider academic enterprise. In encouragement of this objective and in recognition of superior writing and scholarship by undergraduate students that deserves a wider audience, the Vice-President (Academic) and Pro Vice-Chancellor has established a series of prizes for the best undergraduate scholarship done each year at the University.

Instructors are invited to nominate examples of their undergraduate students' course work for the Pro Vice-Chancellor's Prize. The professor will certify that the work is original and the student's own work, and submit it to his/her head/director who will transmit it to the committee. Students may also submit their own course work for consideration. Instructors' comments should not appear. In accepting nomination or making application, students agree to publication. Nominations and applications will be assessed by a selection committee consisting of five academic staff members and chaired by the Associate Vice-President (Academic). The committee will adjudicate entries for their intellectual originality, cogency, facility of expression, and adherence to principles of scientific inquiry and critical thinking. The value of the prize is \$500 cash or a \$1000 scholarship tenable in a graduate program at Memorial University of Newfoundland. Up to five prizes will be awarded each year. At the discretion of the selection committee, Honourable mention may be accorded to entries beyond the available number of prizes.

Project Hero Tuition Bursary

Project hero is an initiative started by Kevin Reed, honorary lieutenant-colonel of 31 Service Brigade, an army reserve unit in London, Ontario. Mr. Reed was inspired by the work of former Chief of Defense Staff, General Rick Hillier, now Chancellor of Memorial University of Newfoundland, and approached him about starting a program to support children of Canadian Forces staff who were killed while on active duty. The bursary provide tuition costs (maximum of 5 courses per semester) for up to four years of study and is available to full-time students in undergraduate degree programs. The bursary is renewable on the basis of continuing full-time enrollment and a minimum GPA of 2. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

To be eligible students must be:

1. Canadian Citizens or Permanent Residents;
2. 26 years old or younger; and
3. dependents of Canadian Forces personnel who died while serving on an active mission (students are required to provide sufficient proof from the Canadian Forces that they are dependents of the deceased soldier and that the individual died while on an active mission).

Candidates wishing to be considered for this bursary must contact the Scholarships and Awards Office, UC4018, Smallwood Centre, Memorial University of Newfoundland, St. John's, NL A1B 5S7 or by telephone to (709) 864-3956.

The Quebec-Labrador Foundation Scholarships

The Quebec-Labrador Foundation offers three scholarships at \$500.00 each to students enrolled in studies at Memorial University of Newfoundland. The first award, which is funded from the Larry Shields Fund of the Foundation, is awarded annually on the basis of academic performance and financial need to undergraduate students who are (a) native born to Newfoundland and Labrador; and (b) planning to study, or currently studying, Native American and/or Intuit cultures. In the event that a candidate who meets this specific criteria cannot be found in a particular year, the award may be given to a student in any year from one of the study fields and geographic locations indicated below for the second and third awards.

The second and third awards will be awarded annually on the basis of academic performance and financial need to students in any year providing that they come from one of the following areas: the Northern Peninsula, Fogo, Labrador South, or the Lower North Shore of Quebec (from Natashquan to Blanc Sablon). In awarding these two scholarships, special consideration will be given to those applicants studying in the fields useful to the development of the regions served by the Foundation, e.g. Education, Business, Nursing and Health, Forestry, Fisheries, Engineering and Natural Resources.

150 RCAF Wing Memorial Scholarship

This Scholarship, valued at a portion of the annual accrued interest on the endowment, will be tenable only at Memorial University of Newfoundland to a full time undergraduate student in any year or field of study, based on scholarship standing. Consideration may be given to students demonstrating financial need. The Scholarship will be available to: (i) a Wing member (as defined by the Constitution) or *relative of a Wing member; (ii) an Air Force Veteran or a *relative of an Air Force Veteran; (iii) an Air Cadet/ex Air Cadet of the 515 North Atlantic Squadron (defined as any person who has served for two years and is/was in good standing at present or at the time of departure from his/her Air Cadet Unit). *Note: Relative is defined as son/daughter; grandson/daughter; great-grandson/daughter; brother/sister; nephew/niece. The Scholarship may be awarded to the same applicant more than once. If in any given year, there is no eligible candidate, two scholarships may be awarded in the following year at the discretion of the trustees. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. Applications are available at 150 RCAF Wing or from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, Memorial University of Newfoundland. Applicants will be required to submit a personal letter of application, stating goals, personal achievements and financial need. Applications are to be submitted in writing to 150 RCAF Wing - Memorial Scholarship Committee, 565 Roosevelt Avenue, Pleasantville, St. John's, NL, A1A 5B2. You may contact us by telephone at (709) 753-8970.

Robert Gillespie Reid Memorial Scholarships

These scholarships are the result of the annual interest from a bequest left to Memorial University of Newfoundland by Mr. Reid. Scholarships valued at two semesters tuition for a full course load, will be awarded annually to students of scholarship standing. These scholarships are open to both Entrance and Undergraduate students.

The Charlie Riggs and Cathy Macdonald Riggs Memorial Award

This award has been established in memory of Charlie Riggs (Bachelor of Engineering - Mechanical, 1988) and Cathy Macdonald Riggs (Bachelor of Science - Psychology, 1984) by AMEC Earth & Environmental (a division of AMEC Americas Limited). The award will be valued at a portion of the income on the endowment and will be awarded annually on a rotating basis between the Faculty of Engineering and Applied Science and the Department of Psychology. Recipients from Engineering can be enrolled in any year of the undergraduate program. Preference will be given to students involved in environmental organizations such as the Newfoundland Environmental Industry Association (NEIA) or environmental initiatives supported by the Professional Engineers and Geoscientists Newfoundland and Labrador (PEGNL). Recipients from Psychology must be undergraduate students majoring in Behavioural Neuroscience and beyond their second year of study. They may demonstrate an interest in the psychology or physiology of communication. The students must meet the minimum academic requirements for an award as defined by the university. The award will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science and the Head of Psychology, Faculty of Science, respectively.

The Russell and Pearl Rose Bursary Fund

The Russell and Pearl Rose Bursary Fund has been established through a generous bequest to the University set forth in the Last Will and Testament of Anita Pearl Rose. Valued at a portion of the income on the investment, it will be awarded to a full-time undergraduate student at Memorial University of Newfoundland beyond the first year and in any field of study who is a graduate of a high school in Newfoundland and Labrador. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of financial need and scholarship standing.

Royal Canadian Legion Ladies' Auxiliary Scholarships

Two scholarships to the value of \$300.00 each, tenable only at Memorial University of Newfoundland, will be awarded to children or grandchildren of veterans. These awards will be made to applicants with the highest scores in any year, providing they have resided in Newfoundland for a period of five years and have completed at least one year at Memorial University of Newfoundland. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Royal Canadian Legion (St. John's Branch No. 1) Memorial Wall Scholarships

These scholarships, three at \$1,000.00 each, have been donated by St. John's Branch No. 1 of the Royal Canadian Legion. They were made possible through funds raised in the construction of a Memorial Wall located at the Branch's club rooms. The scholarships are tenable only at Memorial University of Newfoundland to undergraduate students in any faculty, school or year and will be awarded on the basis of scholarship standing and financial need.

R.S.V.P. Residence Scholarship

This scholarship is the result of fundraising by the Residence Scholarship and Volunteer Program (RSVP) Committee during the early 1990's. One or more scholarships will be awarded annually from the interest earned on the initial endowment. The scholarship(s) will be awarded to full-time undergraduate students who are beyond first year, resided in residence the previous year and are returning to residence for another year. To be considered candidates must have scholarship standing and must have been actively involved in various aspects of residence life. The scholarship(s) will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Director, Student Housing and Food Services.

The St. John's Port Authority Scholarship

This scholarship, valued at \$2,500.00, was established by the St. John's Port Authority. It will be awarded annually to a student who has lived at least twelve months in Newfoundland before commencing his or her post-secondary studies and who is entering third year or beyond in a marine related field. The scholarship shall be awarded on the basis of academic excellence.

The Jeanne F. Sanger Memorial Scholarship

This scholarship, awarded annually in memory of Jeanne F. Sanger, former student and library staff member of Memorial University of Newfoundland, is under the sponsorship of the family and friends of the late Mrs. Sanger. It is awarded on the basis of scholarship standing and need to a second-year student upon completion of first-year studies. The value of the award will be based on income accruing from the fund during the period of tenure of the scholarship.

The Dr. Maurice Saval Scholarship/Bursary Fund

This fund has been established through the generosity of Dr. Maurice Saval, one of the co-founders in St. John's of the Newfoundland American Insurance Company. From the interest accruing on the fund, a number of scholarships/bursaries will be awarded annually to financially needy and academically deserving undergraduate students. The awards will be open to full-time students in first and second year.

Sceptre Investment Counsel Limited Bursary

Sceptre Investment Counsel, one of Canada's leading pension and mutual fund managers and an important partner to Memorial

University of Newfoundland for several years, has established this bursary as a demonstration of its commitment to community support. Valued at the accrued interest on their endowment, one or more bursaries will be awarded annually on a rotating basis between undergraduate and graduate students in any field of study. Successful candidate(s) must be Newfoundland residents demonstrating financial need and displaying qualities of leadership. In the case of undergraduates, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards using scholarship standing as the primary determinant. Graduate students can make application in writing to the Dean of Graduate Studies. The award will be made by the Dean on the recommendation of the Awards and Medals Committee.

Sodexho Scholarship

This scholarship, valued at the annual interest, is the result of a donation to the University from Sodexho. It will be awarded on the basis of scholarship standing to a full-time undergraduate student in any year or field of study.

TD Graduate Bursary for Environmental Study

The TD Graduate Bursary for Environmental Study was established by a gift from TD Bank Group to Dare To: The Campaign for Memorial University. The bursaries will be awarded to full-time graduate students enrolled in any program at Memorial University of Newfoundland, provided they are pursuing research and/or study in environmental-related subjects. Recipients must meet the academic criteria for a Bursary. The number and value of the bursaries available each year will depend on the funds available for distribution as per University policy, as well as the applicant pool, and will be determined at the discretion of the Dean, School of Graduate Studies. The bursaries will be awarded by the Dean, School of Graduate Studies based upon recommendations of Deans and/or Department Heads of any eligible discipline.

The Toronto Alumni Scholarship

This scholarship is being established through the fund raising efforts of the Toronto Alumni Branch of the Memorial University of Newfoundland Alumni Association. The scholarship, valued at a portion of the income on the investment, will be available to an undergraduate student, beyond first year, in any field of study who is a resident of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a minimum of twelve months immediately prior to entering the University) and who demonstrates both academic excellence and leadership qualities. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Deputy Provost (Students) and Associate Vice-President (Academic) Undergraduate Studies.

The James Tucker Memorial Scholarship

This scholarship is the result of an endowment which began in 1997 as a part of the *Opportunity Fund Campaign*. The fund will provide a scholarship valued at a minimum of \$500 to students who are children, grandchildren, nieces, nephews or spouses of current, retired or deceased employees or former employees with a minimum of five years service in the Department of Technical Services, Memorial University of Newfoundland. Preference in awarding the scholarship will be given to entrance students but undergraduates may also qualify. The scholarship will be awarded on the basis of scholarship standing but in the case of ties between candidates, need may be used as a determining factor. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, telephone (709) 864-3956.

The James J. Walsh Memorial Scholarships

These two scholarships, established by the Walsh family to commemorate the memory of a dear husband and father, James J. Walsh, are tenable at Memorial University of Newfoundland and are valued at \$500.00 each. One scholarship will be tenable in the Faculty of Business Administration. (Refer to **Faculty of Business Administration**). The second scholarship will be open to any student enrolled full-time at Memorial University of Newfoundland who has scholarship standing and demonstrates financial need.

The William and Elizabeth (Burdett) Walsh Memorial Bursary

The William and Elizabeth (Burdett) Walsh Memorial Bursary has been established by a gift of \$15,000 from Mr. and Mrs. Walsh's family. Billie and Lizzie (Burdett) Walsh, as they were known, were Labradorians from 'Mary's Harbour' and 'Sandy Hills' who settled in Cartwright. Both of them were keenly interested in the education of their children. It will be awarded to a Labrador student registered in any faculty or year at Memorial University of Newfoundland who is a graduate of a high school in Labrador and consideration will be accorded the following priority: 1) Cartwright, 2) Mary's Harbour, 3) the remainder of the Labrador coast and straits, and 4) all of Labrador. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards with preference given to financial need.

The War Veterans Family Award

This award has been established to give financial assistance to Canadian and Newfoundland War Veterans who served overseas and their families. It is valued at \$2500 annually and is renewable for up to three additional years provided the recipient maintains the minimum academic requirements for an award and continues as a full-time undergraduate student at the University. To be eligible for this award, students must show that they are the child, grandchild, spouse or other dependant of a Canadian or Newfoundland War Veteran, or are themselves a Canadian or Newfoundland War Veteran. The applicant must provide the war veteran's name, service branch and service number. The recipients will be enrolled in any year of study at Memorial University of Newfoundland and would have graduated from a high school in Newfoundland and Labrador. Preference will be given to applicants who have demonstrated financial need. Recipients must meet the minimum academic requirements for an award as defined by the University. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018 University Centre or by telephone to (709) 864-3956. The award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Women's Association of Memorial University of Newfoundland Faculty/Staff Scholarship

The Women's Association of Memorial University of Newfoundland (WAMUN) has established a \$1,200.00 annual scholarship available to students in any faculty or year at Memorial University of Newfoundland, providing they are either:

- a. children of full-time faculty or staff; or
- b. children of deceased or retired faculty or staff, who at the time of death or retirement, were employed full-time.

This scholarship is based on scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Women's Association of Memorial University of Newfoundland Mature Student Undergraduate Scholarship

This scholarship, valued at \$1,200.00, is awarded annually from funds donated by the Women's Association of Memorial University of Newfoundland. It is restricted to women enrolled in full-time undergraduate studies at Memorial University of Newfoundland who are entering or returning, having been away from full-time study for a period of three years or more. They must have been residents of Newfoundland and Labrador for at least a year prior to enrolling. This scholarship is awarded in Winter semester based on Fall semester results in which a minimum average of 75% will be required. Financial need will be considered. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required and may be obtained from the Scholarships and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Women's Association of Memorial University of Newfoundland Single Parent Undergraduate Scholarship

This scholarship, valued at \$1,200.00, is awarded annually from funds donated by the Women's Association of Memorial University of

Newfoundland. It is restricted to single parents enrolled in any faculty, school or year of study at Memorial University of Newfoundland. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of financial need and scholarship standing. A special application is required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

The Women's Association of Memorial University of Newfoundland Undergraduate Scholarship

This scholarship, valued at \$1,200.00, is awarded annually from funds donated by the Women's Association of Memorial University of Newfoundland. It is restricted to undergraduate students who are beyond second year of studies and who will continue at Memorial University of Newfoundland in an academic program. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing.

Dr. James A. Wright Memorial Scholarship

One annually funded scholarship is established by a gift from Leprechaun Resources Ltd. in memory of Dr. James A. Wright, former professor in the Department of Earth Sciences. The scholarship, valued at \$1,000, is available to full time undergraduate students in their second year of study at Memorial University of Newfoundland with a preference for students enrolling at Grenfell Campus. To be eligible, students must meet the minimum academic requirements for a scholarship and must have graduated from a high school on the West Coast of Newfoundland, as defined by the University. Preference will be given to students pursuing any area of study within the Faculty of Science or the Faculty of Engineering and Applied Science. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Zonta Club Scholarship

This scholarship has been established by members of the Zonta Club to encourage and assist women to develop their full academic potential. Valued at a minimum of \$1,000.00, it is open to women enrolled in full-time undergraduate studies at Memorial University of Newfoundland who are entering or returning, having been away from full-time study for a period of five years or more. It will be awarded in Winter semester based on Fall semester's results whereby a minimum average of 75% will be required. In deciding on candidates of equal academic attainment, financial need may be considered.

4.2 Faculty of Arts

The following are available to Faculty of Arts students based on a recommendation from the Dean, Faculty of Arts or the appropriate Director or Department Head.

The Atreya-Haritha Scholarship in Mathematics

This scholarship is the result of a generous donation by Dr. K.R. and Nandinin Kothandaraman. Valued at \$1000 annually, it will be awarded on the basis of scholarship standing to a full-time student, either a senior level undergraduate or a graduate student in Mathematics and/or Statistics. In the case of an undergraduate student, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Mathematics and Statistics. In the case of a graduate student, it will be awarded by the Dean, School of Graduate Studies, also upon recommendation of the head, Department of Mathematics and Statistics.

The Edna Baird-Stephenson Scholarship in Women's Studies

This scholarship, valued at \$500.00, has been established by the Memorial University of Newfoundland Alumni Association, through its Annual Fund. It honours distinguished alumna Edna Baird-Stephenson, B.A., B.H.S., one of the first female graduates of Memorial University College and long-time employee of Memorial University of Newfoundland, now retired. The scholarship is open to full or part-time students enrolled in the Women's Studies Program at Memorial University of Newfoundland who have successfully completed a minimum of 21 credit hours in two of the three semesters in the previous scholarship year and achieved a minimum 75% average at the end of those two semesters. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on a recommendation from the Head, Department of Women's Studies.

Marcella M. Besaw Memorial Volunteer Award

This award has been established by the family of Marcella M. Besaw (1953-2010). Mrs. Marcella Besaw was known for her generosity to others and her service to her community. This scholarship is valued at \$200.00 annually and will be awarded to a student entering the Bachelor of Social Work (B.S.W.) as a Second Degree program. The recipient must have demonstrated outstanding commitment to the service of humanity through involvement in volunteer/work experience relevant to the study of social work. The recipient must meet the minimum academic requirements for an award as defined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Social Work.

The E.A. Bishop (1889-1953) Memorial Scholarship

This scholarship, established to honour the memory of E.A. Bishop, a teacher in Newfoundland and Labrador, is the result of a generous donation to Memorial University of Newfoundland by his son, John. Interest on the fund will provide a scholarship to full-time undergraduate students after completion of their first year at Memorial University of Newfoundland who are dependants of teachers in the public school system of Newfoundland and Labrador. Applicants must be students in the Faculties of Arts or Science and be of scholarship standing. The scholarship is valued at approximately two semesters tuition for five courses. If, in any year, there is no eligible candidate, the scholarship will not be awarded; however, a student may be awarded the scholarship more than once. It will be awarded on the basis of a special application which may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Bishop Spencer College Alumni Association Bursary

This bursary was established by the Bishop Spencer College Alumni Association. The bursary will be valued at a portion of the income from the endowment and will be awarded annually to a female student who is enrolled in the fourth year of any undergraduate degree program in the Faculty of Arts. The recipient must meet the minimum academic and financial requirements for a bursary as defined by the University. The Bursary will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Arts.

The Dr. Jim Black Award in Linguistics

This prize, valued at \$250, is made possible through an annual donation from Jim Black, a retired faculty member in the Department of Linguistics. It will be awarded to a first or second year student who receives the highest combined marks in both Linguistics 1103 or 2103 and Linguistics 1104 or 2104 within the same academic year. The recipient must have declared a major in Linguistics by the end of the academic year in which the courses were completed. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Department of Linguistics.

W.J. Blundon Scholarship

The W.J. Blundon Scholarship, in memory of Professor W.J. Blundon, Head of the Department of Mathematics and Statistics from 1948 to 1976, will be awarded on the basis of academic excellence to students majoring in Mathematics and/or Statistics. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Department of Mathematics and Statistics.

The Marion and Rod Browne Family Memorial Scholarship

This scholarship established by Mr. Rod Browne and his wife Marion in memory of deceased members of the Browne family is tenable at Memorial University of Newfoundland and is valued at a portion of the income on the investment. It is based on academics and awarded to a student majoring in French. Selection will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of French & Spanish.

The Maurice J. Burke Memorial Scholarship

This scholarship, valued at a portion of income on the investment, was established by the family of the late Maurice Burke. Mr. Burke served in the Provincial Department of Education in the Teacher Certification Division for thirty-five years. He was also a columnist and author with a personal and professional interest in Newfoundland culture and folklore celebrating the uniqueness of Newfoundland outport life. It will be awarded alternately to a full-time graduate or undergraduate student in the Folklore Department on the basis of scholarship standing. In the case of undergraduates it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates it will be awarded by the Dean, School of Graduate Studies. In both cases the scholarship will be awarded on the basis of a recommendation from the Head, Department of Folklore.

CFUW St. John's Scholarship for Women's Studies

This scholarship has been established by The Canadian Federation of University Women (CFUW) St. John's. One scholarship, valued at \$2000, may be awarded annually, to a woman enrolled full-time in the Master's program in the Department of Women's Studies. To be eligible, candidates must have scholarship standing. The scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Head, Department of Women's Studies.

The Canadian Tire Scholarships

These scholarships are the result of an endowment to the University by Canadian Tire Corporation Limited as part of their commitment to community service and to Memorial University of Newfoundland via the *Opportunity Fund* Campaign. The endowment will fund three scholarships in the Faculty of Arts, valued at the annual interest on the initial endowment. The scholarships will be awarded to undergraduate students entering third or fourth year in the Faculty of Arts - one each to students majoring in Economics, Linguistics, and Sociology. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head of each of the three academic departments.

Reverend Professor A.C. Cheyne Scholarship in Religious Studies

This fund has been established by the estate of the late Reverend Professor A.C. Cheyne. It is based on scholarship standing and is awarded to a full-time undergraduate student in any year of study who is majoring in Religious Studies. The scholarship will be valued at a portion of the income on the investment. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Department of Religious Studies.

The Captain James Cook Memorial Scholarship

A fund was established in 1979 by members of the Department of Geography to honour the memory of Captain James Cook (1728-79), explorer, navigator and cartographer, whose years of painstaking mapping of the coasts of Newfoundland and Labrador laid the basis for a comprehensive and scientific knowledge of the geography of the province. One or more scholarships, valued at not less than \$600.00, will be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Department of Geography to a student or students demonstrating particular merit in Geography.

The Clayton and Alice Cook Scholarship

This scholarship has been established by Mr. Clayton D. Cook, retired Newfoundland/CN Railway Trainman. The scholarship will be valued at a portion of the income on the endowment and awarded annually. To be eligible, candidates must be enrolled full-time in an undergraduate program at Memorial University of Newfoundland, be residents of Newfoundland and Labrador (as defined by the University) and have scholarship standing. First preference will be given to candidates who are sons, daughters, grandchildren, great-grandchildren or wards of the Newfoundland/CN Railway Trainmen. When an eligible student meeting these criteria cannot be identified, second preference will be given to students enrolled in the Newfoundland Studies program. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. A special application is required to identify students in the first category and may be obtained from the Scholarships and Awards Office, Room 4018, University Centre or by calling (709) 864-3956.

Michael Cook Scholarship

The Michael Cook Scholarship will be awarded annually to a student who has completed English 3350 (Theatre) and English 3351 (The Physical Stage) and who shows definite promise and purpose in pursuing the study of theatre and drama at Memorial University of Newfoundland. The value of the scholarship is \$1,000.00. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Department of English Language and Literature.

The John and Jane Crosbie Scholarship

This scholarship is the result of an endowment to the University started by the Honourable John C. Crosbie, P.C., O.C., Q.C., in 1996 while he was Chancellor and Campaign Chair and further funded by volunteers of *The Opportunity Fund* in honour of Mr. Crosbie's commitment to Memorial University of Newfoundland. Valued at a portion of the annual income on the initial endowment, the scholarship(s) (each valued at a minimum of \$1,000.00) will be awarded to one or more undergraduate student(s) beyond first year in the Faculty of Arts. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Arts.

The John and Anna Daley Scholarship

This scholarship, valued at a minimum of \$1,000.00 annually, has been established by the Daley family in honour of their parents John and Anna. It will be awarded on the basis of scholarship standing to an undergraduate student beyond first year in the Faculty of Arts. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Arts.

The Dr. Madeleine Darte Scholarships in English

These scholarships, up to four each year and having a value of not less than \$250.00 each, have been established by Mrs. J.M. Darte and Mrs. France Darte McCabe in memory of Dr. Madeleine Darte, Lecturer and Assistant Professor of English at this University from 1971-75. In awarding these scholarships, preference will be given to students in the Honours program in English, but students in good standing in the General Degree program in English will also be considered. In addition to the student's academic record, financial need may also be taken into account. Applications for these scholarships should be sent to the Head of the Department of English. Awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Department of English.

The Sally Davis Scholarship

The Sally Davis Scholarship has been established to celebrate the memory and life work of Sally Davis. Contributions to the scholarship fund have come from family and friends who were so lovingly and generously influenced by Sally during her long life. The scholarship, valued at \$1000.00, will be awarded annually in the Spring Semester. Eligible candidates must be full-time students in the Master of

Gender Studies program. Preference will be given to a candidate studying in one of the following areas: peace and international understanding, literacy, children, labour movement, gun control, or environment. If there is no qualified graduate applicant in a particular year, the award may be offered to an undergraduate (who is registered in a minor in Gender Studies who is in financial need. An individual may receive the award twice but no more. In the case of graduates it is awarded by the Dean of Graduate Studies upon recommendation of the Head, Department of Gender Studies Program. In the case of undergraduates, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Gender Studies Program.

The Dominion of Canada General Insurance Company Scholarship

This scholarship is the result of a donation to Memorial University of Newfoundland by the Dominion Group Foundation. The scholarship, valued at the annual interest, will be awarded to a student in first year of the Faculty of Arts. It will be awarded on the basis of scholarship standing and financial need.

The English Department Faculty Award

This award has been established, and is supported by, faculty and staff of the Department of English Language and Literature. Valued at a portion of the income on the investment, it will be awarded annually to a full-time undergraduate student with a major in English. To qualify, candidates must be in their third year of study or beyond (with a minimum of 21 credit hours), have completed coursework in Canadian Literature, American Literature and Shakespeare, and meet the minimum academic requirements for an award as defined by the University. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of English.

The Ernest Joseph Ennis Scholarship

This scholarship was established by Ernest Joseph Ennis of Merasheen, Placentia Bay, retired School Supervisor, in memory of Dr. Hatcher, Ms. Monnie Mansfield, and Professors Fraser, Gillingham, and Andrews of the Memorial University College. This scholarship, valued at the accrued interest, shall be awarded to an entrance student of scholarship standing with preference to a student planning to study Economics or Political Science.

The David and Ethel Evans Scholarship in History

The David and Ethel Evans Scholarship in History was established by Thomas Evans in memory of his parents. Valued at \$1500 annually, it is available to a full-time student with scholarship standing who is enrolled in the final year of the Honours Degree Program in History. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on a recommendation of the Head, Department of History.

The Faculty of Arts Annual Fund Awards

These awards are made possible each year by the generous donations of alumni and friends to the Faculty of Arts Annual Fund. Valued at a minimum of \$500 they will be granted annually to undergraduate students enrolled in a Faculty of Arts program. First preference is for students enrolled in a study abroad program within the Faculty of Arts. The recipients must meet the minimum academic requirements for an award as defined by Memorial University of Newfoundland and the number of awards available annually will be at the discretion of the Dean, Faculty of Arts. The awards will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Arts.

The Faculty of Arts Dean's List Scholarship

This scholarship, established by donors to the *Opportunity Fund* who have directed that their donations be used for scholarships within the Faculty of Arts, is valued at approximately \$1,000.00 annually. It is awarded to a student who achieves high ranking on the Dean's List of the Faculty of Arts and who meets the requirements for scholarship standing, but who is not in receipt of other significant scholarship funding. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, Faculty of Arts.

The Leida Finlayson Memorial Scholarship

This fund has been established by relatives and friends of Leida Finlayson, former General Manager of the Newfoundland Historic Trust. The scholarship, valued at a portion of the accrued interest, is to be awarded annually to a Memorial University of Newfoundland undergraduate student, beyond second year, studying political science and/or history. Based on scholarship standing and financial need the scholarship will be awarded to a resident of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a minimum of twelve months immediately prior to entering the University). The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, Faculty of Arts.

The E.B. Foran Memorial Scholarship

This scholarship, awarded in memory of the late Mr. E.B. Foran, longtime associate of municipal government in St. John's, is valued at \$500.00 and is sponsored by the Newfoundland and Labrador Federation of Municipalities. It is open to students beyond first year at Memorial University of Newfoundland who demonstrate scholarship standing and who are majoring in Political Science with an emphasis on municipal government. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Head, Political Science Department.

The Senator Eugene Forsey Scholarship

Established by the Government of Newfoundland and Labrador, this scholarship honours a native Newfoundlander, Senator Eugene Forsey, as one of Canada's foremost authorities on the Canadian Constitution, and recognizes his great commitment to Canada and this province. The scholarship, tenable at Memorial University of Newfoundland, and valued at \$2,000.00, shall be awarded to a student in third year, or beyond, who has shown excellence in Canadian Policy Analysis or Canadian Governmental Studies.

The G. Alain Frecker and Helena M. Frecker Memorial Scholarship

This scholarship has been established by the family of G. Alain Frecker and Helena M. Frecker to honour their parents' life-long commitment to Memorial University of Newfoundland and to the pursuit of excellence in education. Helena M. Frecker was the first graduate of Memorial College and a long-time faculty member in the Department of English at Memorial University of Newfoundland. Dr. G. Alain Frecker was the first faculty member in the department of Engineering at Memorial College. He maintained a close relationship with Memorial University of Newfoundland as a senior public servant, as a member of the Provincial Cabinet, and as University Chancellor from 1971 to 1979. This scholarship, tenable at Memorial University of Newfoundland and valued at a portion of the accrued interest on the endowment, will be awarded to an undergraduate student beyond second year in the Faculty of Arts and majoring in the Humanities or any Social Science. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Arts.

Daniel Freeman Memorial Scholarship

This scholarship was established from the contributions of many family members, friends, and fellow students in memory of Danny Freeman, a former Engineering student at Memorial University of Newfoundland. The scholarship, valued at a portion of the accrued interest, will be awarded annually, on a rotating basis, to students enrolled in either Engineering or Mathematics. Preference will be given to candidates with disabilities with consideration given to quality of character and overall perseverance. If a successful candidate is not recommended by the discipline on rotation in a given year an eligible student from the other discipline may be awarded the

scholarship for that year. If no candidates are available from the first group any student enrolled in either Engineering or Mathematics (discipline to be determined by the rotation schedule in a given year) will be considered. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering or the Head, Department of Mathematics and Statistics.

The Allan and Clara Gillingham Scholarship in Russian Studies

On the occasion of their fiftieth wedding anniversary, this scholarship has been established by Mr. and Mrs. Gillingham, who both hold fond memories of studying the Russian language themselves. Valued at \$500.00, this scholarship will be awarded annually to a student who is pursuing a program of Russian Studies at Memorial University of Newfoundland. Candidates will be selected on the basis of academic excellence. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Head, Department of German and Russian.

James A. Good Scholarship in Philosophy

This scholarship has been established by friends and colleagues in Memory of James A. Good. Mr. Good was a successful investment banker and Partner at Capital Canada Limited in Toronto. He earned his B.A. in Philosophy and Political Science from Memorial University of Newfoundland, an M.A. in Philosophy from Dalhousie University, and undertook doctoral studies in Philosophy at the University of Toronto where he was also a lecturer. He was Chief of Staff to the Honourable John C. Crosbie, a position he maintained across the portfolios of Justice, Transport, Finance, International Trade and Fisheries. Valued at a portion of the income on the investment, the scholarship will be awarded to an undergraduate student majoring in Philosophy on the basis of scholarship standing and financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Philosophy.

The Graham Family Scholarship

This scholarship, established by Mrs. Kathleen Birchall and Dr. David Graham, is valued at a portion of the income on the investment. It will be tenable at Memorial University of Newfoundland and will be awarded to an outstanding student majoring in French with preference given to students enrolled in the Honours program. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of French and Spanish.

The R. Bertram Green Class Scholarship

This scholarship is the result of a bequest to the University by Rev. Dr. Robert Bertram Green. Valued at the annual interest on the initial endowment, it will be awarded to an undergraduate student in second or third year in the Faculty of Arts, majoring in either Classical or Modern Languages, Economics, English, History, Philosophy, or Political Science. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Arts.

Greystone Managed Investments Scholarship

This scholarship, valued at a portion of the income on the investment, is made possible by a generous contribution from Greystone Managed Investments. This scholarship will be awarded, to an undergraduate student beyond first year, on a rotating basis between the Faculty of Science and the Faculty of Arts. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the Faculty on rotation.

The Mary A. Griffiths Memorial Bursary Fund for Folklore Field Research (Undergraduate)

This fund has been established by the Memorial University of Newfoundland Folklore Society in memory of Mary A. Griffiths, B.A. (Folklore). One or more bursaries valued at a minimum of \$250.00 each will be awarded annually to undergraduate folklore students who wish to pursue field research. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Department of Folklore. Selection will be made on the basis of a submitted research proposal as well as demonstrated financial need. Application forms and guidelines are available from and should be submitted to the Folklore Department. The deadline date for submission of applications is January 31. If there are no suitable candidates in a given year the bursaries will not be awarded.

The Alan D. Hall Award

This award has been established in memory of Alan D. Hall by his friends and family. A longtime faculty member in the Department of English at Memorial University of Newfoundland, he was deeply engaged in Music and Theatre throughout his life. The award, valued at a portion of the income on the investment, will alternate between the School of Music and the Faculty of Arts on a yearly basis. For the School of Music the award will go to a Music student beyond first year who demonstrates a high level of achievement on their instrument of applied study as well as involvement in and commitment to the music community. For the Faculty of Arts the award will go to a student beyond first year enrolled in the program leading to a Diploma in Performance and Communications Media or to a student enrolled in the program leading to a Bachelor of Arts degree with a major in Drama and Music. The eligible student must demonstrate a high level of achievement in theatre, as well as involvement in and commitment to the theatre community. To qualify for this award, students must meet the academic requirements for an award as outlined by the University. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music or the Dean, Faculty of Arts.

The Professor Peter Hart Memorial Scholarship

This scholarship has been established in memory of Canada Research Chair in Irish Studies and Department of History Professor, Dr. Peter Hart. His work was marked by a commitment to writing well and accessibly, and by his innovative approach to research and analysis – in particular for opening up new questions through his application of social science methods and concepts to problems of Irish history. The scholarship, valued at a portion of the income on the investment, will be awarded annually to a full-time doctoral student in the Faculty of Arts. Candidates must meet the minimum academic requirements for the scholarship as defined by the University and applications must include academic transcripts, a research statement of no more than 500 words, a writing sample, two letters of reference and an academic CV. In the event of more than one eligible candidate, preference will be given to a student whose research focus falls into one or more of the following areas: Irish history or politics; Newfoundland and Labrador history or politics; political violence; or revolution. The Scholarship will be awarded by the Dean, School of Graduate Studies, on the recommendation of the Awards and Medals Committee.

The Gunther Hartmann Scholarship

This scholarship has been established by family, friends and colleagues in memory of Dr. Gunther Hartmann who was a member of the Department of Political Science from 1968-2000. Dr. Hartmann fostered student interest in international affairs not only through his teaching, but through the United Nations Association and the Model United Nations program. In awarding the scholarship preference will be given to a Political Science student, third year or beyond, who has excelled in courses in International Relations, International Organization, or International Law and has been active in Model United Nations or similar organizations. Based on scholarship standing the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Political Science.

The Michael Harrington Research Prize in Newfoundland History

This award was established by the family of Michael Francis Harrington Sr., journalist, author and Newfoundland historian. The prize is

valued at a minimum of \$500.00 and will be awarded annually to an undergraduate or graduate student doing research in Newfoundland history. To be considered, undergraduate students must be history majors planning to do research for a course in Newfoundland history or towards an honours thesis. Graduate students must be writing a thesis on some aspect of Newfoundland history. In some instances it may be awarded as a travel grant which will assist students with travel expenses incurred while undertaking their research. In the case of undergraduates it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of History. In the case of graduates it will be awarded by the Dean, School of Graduate Studies, also upon recommendation of the Head, Department of History.

Heaslip Scholarship

This scholarship is made possible by a generous donation from The William and Nona Heaslip Foundation. Two scholarships, valued at \$15,000.00 each, will be available to students in their second year of undergraduate studies at Memorial University of Newfoundland. To be eligible students must be registered for full-time studies, must have scholarship standing, must be in financial need, and must have demonstrated outstanding involvement in university and/or community affairs. Preference will be given to students in the Faculty of Arts. This scholarship is renewable for an additional two years providing full-time registration, scholarship standing, financial need and continued outstanding involvement in university and/or community affairs are demonstrated. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships Bursaries and Awards based on a recommendation from the Dean, Faculty of Arts.

The Aidan Hennebury Memorial Scholarship in Classics

This scholarship is the result of an endowment to Memorial University of Newfoundland via the *Opportunity Fund Campaign* by the law firm of Martin, Whalen, Hennebury & Stamp in memory of former partner Mr. Aidan Hennebury. The donation will fund a scholarship valued at the annual interest on the endowment. The scholarship will be awarded to an undergraduate student beyond second year who is majoring in Classics. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Classics.

The Elizabeth C. Hesson Memorial Scholarship in German

This scholarship was established in memory of Dr. Elizabeth C. Hesson, Head of the Department of German and Russian from 1986 to 1989 and a member of that Department from 1969 to 1989, through the generosity of her family, colleagues and friends. The scholarship has a value of \$1,000.00, and is normally awarded to a German major who has completed at least the second year of study at Memorial University of Newfoundland and who has demonstrated a high level of academic performance in German. The scholarship shall be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of German and Russian, and is designed to assist the student to undertake a program of German studies in German-speaking Europe. In addition to academic excellence, financial need may be taken into account. This scholarship will not necessarily be awarded every academic year.

The Hollinger English Language and Literature Scholarship

This scholarship, donated by Hollinger Inc., will be awarded to a Memorial University of Newfoundland student who is beyond second year and is majoring in English Language and Literature. It will be valued at the annual interest and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of Scholarship Standing and upon recommendation of the Head, Department of English.

The A.C. Hunter Travel Award in French

This award has a value of not less than \$600.00 and is awarded annually. It has been established in memory of Dean A.C. Hunter through the generosity of Mrs. Hunter, the Provincial Government of Newfoundland, the Board of Regents of Memorial University of Newfoundland and Dean Hunter's former students and friends. The award shall take the form of a travel grant to a student, in second year or beyond, majoring or minoring in French who wishes to pursue a program of study of one or more semesters' duration, in French language, literature or culture, at a recognized institution in metropolitan France. Eligibility for this award requires a minimum of clear academic standing (as defined by the University) in the previous scholarship year. The award shall be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Department of French and Spanish.

The Muriel H. Hunter Award in Spanish

This award, valued at \$600.00, is awarded out of income derived from a bequest to the University by the late Mrs. Muriel H. Hunter, wife of the late Dr. A.C. Hunter and former Lecturer in Spanish at the Memorial University College. The award shall take the form of a travel grant to a student, in second year or beyond, majoring or minoring in Spanish who wishes to pursue a program of study of one or more semesters' duration, in Spanish or Spanish-American language, literature or culture, at a recognized institution in metropolitan Spain or Latin America. Eligibility for this award requires a minimum of clear academic standing (as defined by the University) in the previous scholarship year. The award shall be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Department of French and Spanish.

The Imperial Tobacco Canada Scholarship in Archaeology

This scholarship, established by Imperial Tobacco Canada in support of the *Opportunity Fund Campaign*, has a minimum value of \$2,000.00 annually. It will be awarded to a senior student in archaeology who is registered in (or is planning to enter) the honours program, specializing in historic archaeology. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Archaeology.

The H.H. Jackson Travel Scholarship in German

This scholarship was established upon the retirement of Dr. Herbert H. Jackson, Professor Emeritus and first Head of the Department of German and Russian from 1967 to 1980, through the generosity of his colleagues and students. The scholarship has a minimum value of \$500.00 and is awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Department Head, to a candidate who has completed at least the second year of study at Memorial University of Newfoundland, has demonstrated a high level of academic performance in German, and is planning to undertake a program of studies and/or work assignment in a German-speaking country.

The Jeroboam Poetry Prize in English

The proceeds from a sum of money donated to the University in 2001 by the editors of Jeroboam Books will be awarded in an annual poetry competition administered by the Department of English, Memorial University of Newfoundland. The competition will be open to full-time or part-time students in any year of study at the University upon submission of original, unpublished work. In keeping with the tradition of Jeroboam, the work should reflect some aspect of traditional or contemporary Newfoundland. Entry forms and further information may be obtained by contacting the Department of English. The selection of winners will be the responsibility of a special committee composed of the Department of English faculty members. The prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of English Language and Literature.

The Barend Kieft Memorial Award

This award was established by friends of Dr. Barend Kieft, in his memory. It is a book prize to be given annually to a student in Philosophy. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Philosophy.

The Dr. B.K. Kim Scholarship in Statistics

This scholarship will be awarded annually to an undergraduate student whose major subject of study is Statistics. The award honours the memory of the late Dr. B.K. Kim who taught in the Department of Mathematics and Statistics from 1976-84. The scholarship, with a value of at least \$500.00, will normally be based on academic achievement in third year and/or fourth year courses and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Mathematics and Statistics.

The Cornelia Learning/Annie Butler Moores Scholarship

In memory of her maternal and paternal grandmothers, Mrs. Dorothy Young of Pasadena, California, has established the Cornelia Learning and Annie Butler Moores Scholarship in the Faculty of Arts. This perpetual scholarship, valued at approximately \$500.00, is open to Arts students of scholarship standing with demonstrated financial need.

The John and Lucy Lee and Family Memorial Bursary

This bursary has been established by family members to honour the memory of John and Lucy Lee of Petty Harbour and their deceased children. It is valued at a portion of the interest on the endowment and will be awarded to a full-time student in Religious Studies. The recipient of this bursary will have demonstrated scholarship standing and financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Religious Studies.

The Mrs. E.D. Matthews Memorial Scholarship in Mathematics and Statistics

This scholarship honours the memory of the late Mrs. Evelyn Matthews who taught in the Department of Mathematics and Statistics, Memorial University of Newfoundland, from 1959-78. It has a value of at least \$500.00, and will be awarded on an annual basis to an undergraduate student whose major subject of study is Mathematics or Statistics. The scholarship will be based on academic merit and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Mathematics and Statistics.

The Susan McCorquodale Memorial Scholarship

Established by her friends and colleagues, this scholarship honours the memory of Susan McCorquodale, former member of the Political Science department at Memorial University of Newfoundland. The scholarship will be valued at the annual interest on the endowment and shall be awarded to a senior student majoring in Political Science who is concentrating in one of the areas to which Susan was committed - Newfoundland Politics, Public Policy or Public Administration. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Head, Department of Political Science.

The Reverend G. Lloyd Morgan Memorial Scholarship

This scholarship, awarded annually, has been donated by Mr. Baxter Morgan and his wife Lorraine to the Religious Studies Department of the University in memory of Mr. Morgan's brother, The Reverend G. Lloyd Morgan, B.A., B.D., who served with the United Church Ministry in Newfoundland for over twenty-five years.

It has a value of \$500.00 and is awarded for academic excellence to a student who has completed two years of study in the Religious Studies Department of the University. Preference will be given to a student who has a major interest in the comparative study of religion. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Religious Studies Department.

The John M. and Elsa S. Morgan Scholarships

These scholarships have been bequeathed to the University by the late Dr. John M. Morgan, B.Sc., M.D., and have been named to commemorate Dr. Morgan and his wife Elsa. Up to twenty-five scholarships will be made available annually to undergraduate students who have completed at least one year of studies at Memorial University of Newfoundland within the areas specified below and who will be continuing in these programs. The scholarships, valued at a minimum of \$1,000.00 each, will be disbursed as follows:

- up to five to the Faculty of Medicine
- up to four to the School of Nursing
- up to four to the Faculty of Education
- up to four to the Department of Philosophy
- up to two to the Department of Anthropology
- up to two to the Department of Archaeology
- up to two to the Department of Religious Studies (with preference to students of comparative religions)
- up to two to students in Newfoundland Studies

The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the appropriate Dean/Director/Department Head. Preference will be given, where possible, to students from the Port-de-Grave District.

The Mary Florence Mugford (Lane) Memorial Award for Social Work

This travel award was established by the family of Mary Florence Mugford (Lane) to honour their mother as a woman who persevered in life. This award is valued at a portion of the income from the endowment and will be awarded annually. The recipient will be a student in the School of Social Work who is traveling to a rural placement in the field of mental health and/or addictions. Preference will be given to a student who graduated from a high school outside of the St. John's metropolitan area. The recipient must meet the minimum academic requirements for an award as defined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, School of Social Work.

The MUN Classics Society Prize in Latin

This prize has been established by the MUN Classics Society of 2001-2002 to reward students achieving academic excellence. This prize will be valued at approximately \$150.00 annually. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Head, Department of Classics, to the student who is working toward an undergraduate degree in Classics and receives the top mark in the Classics 1120 and 1121 (Introduction to Latin) courses on the St. John's campus.

The Stephan Muzychka Bursary in Spanish

This bursary, valued at a portion of the annual interest, has been established by an endowment from the family of Professor Muzychka who taught Spanish Language and Literature at Memorial University of Newfoundland from 1960 until his death in 1985. Mr. Muzychka was born in 1926 in Pukiv, Ukraine. He attended the Ukrainian Teacher's Training College and later the University of Madrid where he received his MA in Philosophy in 1959. He joined Memorial University of Newfoundland's Department of Modern Languages (at the old Parade Street Campus) and later became Head of the Department of Spanish. First preference, for this bursary, will be to a student majoring or minoring in Spanish who is beyond second year. If no candidate is available from the first preference the bursary will be awarded to a student beyond second year studying modern languages. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing, financial need and a recommendation from the Head, Department of French and Spanish.

The Newfoundland & Labrador Hydro Scholarships

These scholarships are the result of an endowment to the University provided by Newfoundland and Labrador Hydro. Valued at the annual interest on the endowment, up to ten of these scholarships will be awarded, initially in amounts of \$1,000.00 each and increasing as endowment income permits, to undergraduate students in the Faculty of Arts at the second year and beyond. Half of the available scholarships will be for students of scholarship standing majoring or minoring in one of the interdisciplinary programs in the Faculty, and half will be for students of scholarship standing who are named to the Dean's List and who achieve exceptionally high overall averages, normally 85% or better. Those directed at students enrolled in interdisciplinary programs will be awarded on the recommendation of interdisciplinary Program Co-ordinators; those for Dean's List students will be awarded on the recommendation of the Dean of Arts. In both cases financial need may be taken into consideration. Preference will be given to students meeting these criteria who are not already in receipt of significant scholarship funding from other sources.

The Newfoundland St. Andrew's Society Scholarship

This scholarship is the result of a gift from the Newfoundland St. Andrew's Society to Memorial University of Newfoundland. Valued at a portion of the interest on an endowment, the scholarship will be awarded to a student from the Faculty of Arts whose studies and accomplishments most closely support the aims of the Newfoundland St. Andrew's Society; To foster and encourage the love of Scotland, its history, literature, music and national games in a Newfoundland context. In the case of undergraduate students the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies. In both cases it will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

The Honourable Fabian A. O'Dea Q.C., LL.D Scholarship

This scholarship has been established by the O'Dea family in memory of their father, the Honourable Fabian O'Dea; Memorial University of Newfoundland Alumnus, Rhodes Scholar, Lieutenant Governor of Newfoundland, and recipient of honorary degrees from both Memorial University of Newfoundland and The Law Society of Newfoundland. It is valued at \$1,000 per year. To commemorate Dr. O'Dea's work in Newfoundland cartography, the scholarship is to be awarded to a student majoring in Geography who achieves scholarship standing. Preference is to be given to a student who is physically or learning disabled but if there is no such candidate in a given year it will be awarded to any eligible undergraduate Geography student. The scholarship is to be awarded by The Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Geography.

The Dr. Paul O'Neill Scholarship for Excellence in Newfoundland and Labrador Studies

The Historic Sites Association of Newfoundland and Labrador established this scholarship in honour of Dr. Paul O'Neill, LL.D., C.M., in recognition of his contributions to the study and promotion of Newfoundland and Labrador culture and history. The scholarship is valued at \$1000 and will be awarded annually to an undergraduate student at Memorial University of Newfoundland, who is enrolled in a Bachelor of Arts degree program. There is no restriction by major or minor, but applicants must have shown excellence and outstanding enthusiasm and interest in some area of Newfoundland Studies as part of their degree program. Preference will be given to a student who has not received other major scholarships in the same academic year. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Arts.

The Senator Gerald R. Ottenheimer Language Scholarship

This scholarship, valued at the annual interest on the initial endowment, has been established via *The Opportunity Fund* in memory of Senator Ottenheimer through the generosity of White Ottenheimer & Baker, Barristers & Solicitors. It will be awarded on a rotating basis to students majoring in one of the language programs or the English Language and Literature programs at Memorial University of Newfoundland (graduate or undergraduate). At the undergraduate level it will be awarded on the basis of scholarship standing to a student in second year or beyond who plans to pursue one of the above noted areas of specialization. In the case of graduate students it will be awarded to a full-time student doing the Masters of Arts in one of the disciplines noted. If the successful candidate is an undergraduate, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. If the winner is a graduate student, it will be awarded by the Dean, School of Graduate Studies. In both cases it will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

The Stuart O. Pierson Prize

The Stuart Pierson prize, valued at a portion of the annual interest, will be awarded annually on the joint recommendation of the Head of the History department and the Co-ordinator of the Masters of Philosophy program in Humanities. Eligible students will be enrolled full time, in either the Masters of Philosophy Humanities program, or in the M.A. or B.A.(Hons.) programs in History. Preference will be given to students who show particular promise in the history of ideas, historiography, or the history of science. In the case of undergraduate students, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduate students, it will be awarded by the Dean, School of Graduate Studies.

Mary Pittman-Robbins Scholarship in Archaeology

This scholarship, valued at a portion of the income on the investment, has been established by students and colleagues of Mary Pittman-Robbins. The scholarship is to be awarded to a senior student in Archaeology who has completed the honours program specializing in Prehistoric Archaeology or Physical Anthropology. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Department Head in consultation with the Archaeology faculty.

The Dr. Clarence W. Powell Memorial Scholarship

This scholarship was established in memory of honorary graduate of Memorial University of Newfoundland, Dr. Clarence W. Powell. It is valued at a minimum of \$1,000.00 annually and will be awarded to a student entering the third year of the Political Science Program who has scholarship standing, has shown leadership in university and/or community activities and who has not received another scholarship administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Political Science.

The Psychology Society Award

The Psychology Society Award has been established by the students of the Psychology Society to encourage and support their fellow students. This award will be given to an undergraduate student majoring in Psychology or Behavioural Neuroscience who is beyond their second year of study and meets the minimum academic requirements for an award. It will be based on academic achievement in Psychology or Behavioral Neuroscience courses as well as involvement in the internal and external Psychology or Behavioral Neuroscience community. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Psychology.

The Cpl. Michael J. Roberts Memorial Award in Police Studies

This award has been established in memory of Tampa Police Officer, and Memorial University of Newfoundland graduate, Cpl. Michael (Mike) Roberts. Born in Florida and raised in Newfoundland, Cpl. Roberts died tragically in the line of duty on August 19, 2009. He served his community with honour and distinction over his many years on the force and earned numerous commendations and awards. Valued at a portion of the income on the endowment, the award will go to a student with demonstrated financial need who is enrolled in the Diploma in Police Studies program at Memorial University of Newfoundland. The recipient must meet the minimum academic requirements for an award as outlined by Memorial University of Newfoundland. The award will be granted by the Senate Committee on

Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Coordinator, Police Studies Diploma Program.

The Bobbie Robertson Scholarship in History

This scholarship was established by friends, family and colleagues of the late Bobbie Robertson. It will be valued at the annual accrued interest on the initial endowment and will be awarded on the basis of scholarship standing to a history major with preference given to students in Newfoundland and Labrador history. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of History.

The Dr. Grenville R. Robinson Award in French

This award was established in memory of the late Dr. Grenville Robinson, a former professor of the Department of French at Memorial University of Newfoundland. Valued at a portion of the income on the investment, it will be awarded each Spring to a student in the Department of French on the basis of his/her performance in any three or more of the following French courses: 3100, 3101, 3500, 3501, 3502, 3503, 3504 and 3506 and his/her contribution to the general activities of the Department. The successful recipient must be a full-time student and have completed between 60-90 credit hours towards a Bachelor of Arts at Memorial University of Newfoundland with a major or minor in French. The recipient will also receive a book prize and a certificate. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of French and Spanish.

The Rotary Club (St. John's Northwest) Scholarship

This scholarship has been established by the Rotary Club of St. John's Northwest. It is valued at \$1,000.00 annually and will be awarded to a full-time student beyond first year, pursuing a Bachelor of Arts or a Bachelor of Science with a major in one of the Social Sciences, who has demonstrated a commitment to community service. The recipient of this scholarship will be a long-term resident of Newfoundland and Labrador who completed high school in this province and will have demonstrated scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the joint recommendation of the Dean of Arts and the Dean of Science. This scholarship will be presented at one of the regular meetings of the Rotary Club of St. John's Northwest and the recipient will be asked to speak about their goals and community service work.

Dr. Edward ("Ted") Russell Scholarships in English

In memory of Dr. Edward ("Ted") Russell, author and teacher, who was a Lecturer and Assistant Professor of English at this University from 1965-73, a fund has been established to provide one or more scholarships for students majoring in English. These scholarships will be awarded to promising students who have completed their first year of University studies and are entering the second year of a degree program with English as their major subject. In addition to the student's academic records, financial need may also be taken into account. Applications should be sent to the Head of the Department of English. Awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Department of English.

The Russian Ambassador's Award for Excellence in Russian Language and Literature

This award was established in 1999 to commemorate the 200th Anniversary of the birth of the Russian poet Alexander Pushkin. It is a book prize to be given annually for outstanding achievements in studying the Russian Language and Literature. It will be awarded to an honours student in the Russian Language and Literature program at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Co-ordinator, Russian Programs.

The Scotiabank Bursaries for International Study

These bursaries, funded by a generous donation from Scotiabank to *The Opportunity Fund*, are intended to help students broaden their educational experience and cultivate an international perspective through study abroad while pursuing studies in the Faculty of Arts at Memorial University of Newfoundland. Fifteen or more bursaries will be available with approximately ten at the undergraduate level valued at \$1,000.00 each and five at the graduate level valued at \$2,000.00 each. The undergraduate bursaries will be awarded on the basis of scholarship standing to full-time students who are participating in one of the overseas Field Schools or study abroad opportunities sponsored by the Faculty of Arts. These include the Arts semester in Harlow (every Fall) as well as Summer programs at Harlow and in other countries such as Ireland, Malta, Russia, etc. In addition, students wishing to participate in formal exchange programs through the faculty of Arts, such as those with the University of Keele, will also qualify. The graduate bursaries will be based on academics as well and will assist full-time Faculty of Arts master's and doctoral students (including those in interdisciplinary programs) to travel to other countries for the purpose of thesis research and thesis-related study. In both cases financial need may be taken into consideration. In the case of undergraduates the bursaries will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates they will be awarded by the Dean, School of Graduate Studies. In both cases the bursaries will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

Ron and Gwen Seary Memorial Scholarship

Two scholarships from the interest on a fund established by the family, colleagues and students of Ron and Gwen Seary shall be awarded. One scholarship shall be given to a student beyond second year who is majoring in English Language and Literature and who is recommended by the Head of the Department. One scholarship shall be awarded to a student in Primary/Elementary Education who shows promise in Art Education and who is recommended by the Dean, Faculty of Education.

The Roberta H. Sellars Scholarship

This scholarship is the result of an endowment by the Rev. Walter C. Sellars in recognition of his wife Roberta for her loyal and loving support, particularly while he was struggling through university. The scholarship will be awarded annually to a full-time student in any year in either the Faculty of Arts or Science on a rotating basis. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on scholarship standing and financial need and upon the recommendation of the appropriate Dean.

Tracey Sloane Memorial Scholarship in Political Science

This scholarship, valued at \$500.00 annually is the result of contributions by Tracey Sloane's coworkers at Aliant. The scholarship is established in memory of Tracey, who was pursuing a Master's degree in Political Science, as a tribute to her love of learning. The scholarship recipient will be a full-time undergraduate student majoring in Political Science. The student must demonstrate scholarship standing and may be enrolled in any academic year. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation of the Head, Department of Political Science.

Spurrell-Bartlett Bursary

This bursary was endowed by Morris and Janet Bartlett to honour their parents, Willis and Marjorie Spurrell and Francis and Jane Bartlett, who were devoted to the promotion of education in Newfoundland. It is valued at the annual accrued interest and is available to students in the Faculty of Arts, preferably from rural Newfoundland and Labrador. The bursary shall be awarded based on scholarship standing and need.

The St. Aiden's Presbyterian Church Memorial Scholarship

This scholarship, valued at approximately \$1,000.00 will be awarded annually to a student who has completed at least two years of study in the Department of Religious Studies at Memorial University of Newfoundland. It will be awarded annually on the basis of

scholarship standing and need. This scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Religious Studies.

Statistical Society of Canada Scholarship

This scholarship has been established by a generous donation from the Statistical Society of Canada. It is based on scholarship standing and is awarded to an undergraduate student in any year of study who is majoring in Statistics and meets the minimum academic requirement for a scholarship. The scholarship will be valued at \$750. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Department of Mathematics and Statistics.

Dr. Siegfried Thomeier Memorial Prize in Pure Mathematics

The prize, the interest from a donation by an anonymous donor, is awarded to a fourth or fifth year student majoring in Mathematics with a concentration in Pure Mathematics. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Mathematics and Statistics.

The Robert Westcott Memorial Scholarship

This scholarship was established by Mrs. Mary Westcott in memory of her late husband, Mr. Robert Westcott. It is valued at a portion of the annual interest on an endowment and will be awarded on a rotating basis to students beyond first year who have a strong commitment to post-secondary education and who are majoring in Business Administration and/or Economics. It will be based on scholarship standing and financial need and will be awarded to a student who was born in Newfoundland and Labrador. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean/Department Head of the appropriate discipline.

The Dr. Louise Whiteway Prize in Newfoundland History

A bequest to the University by the late Dr. Louise Whiteway has funded a \$100.00 prize in Newfoundland history. The prize will be awarded annually to a Memorial University of Newfoundland student who is considered to be the most promising student in Newfoundland history. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Head, Department of History.

The Jacques Whitford Newfoundland Geoscience Scholarship

This scholarship, valued at the annual interest on their endowment, has been established by Jacques Whitford Environment Limited and Newfoundland Geosciences Limited as a contribution to the *Opportunity Fund Campaign*. It will be awarded on an annually rotating basis to students in the Faculty of Engineering and Applied Science (particularly Civil Engineering), the Faculty of Science (particularly Biological Sciences) and Archaeology. Successful candidates are to be of scholarship standing and preferably show an interest in environmental issues. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean/Director/Department Head of the appropriate discipline.

The Dr. John Whittaker Memorial Prize in Greek

This prize is in memory of Dr. John Whittaker, former professor of Classics at the University. The prize will be valued at approximately \$150.00 annually. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Head, Department of Classics, to the student who is working toward an undergraduate degree in classics and receives the top mark in the Classics 1130 and 1131 (Introduction to Greek) courses on the St. John's campus.

The Honourable Gordon A. Winter, O.C. Scholarship

This scholarship, donated by The Standard Manufacturing Company in recognition of the contribution of the Honourable Gordon A. Winter to the public life of Newfoundland and Labrador, is awarded annually for academic excellence to a student entering fourth-year political science. The award, valued up to \$500.00, will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Political Science. The value of the award will be determined by the interest accruing on the fund.

The Walker Wood Foundation Bursary in the Faculty of Arts

Valued at \$4,000 annually, this bursary is established as a result of a generous contribution from Sue and Neil Wood, friends of Memorial University of Newfoundland. The bursary is available to full-time undergraduate students who are Canadian citizens, graduated from a high school in rural Newfoundland and Labrador, and who are entering into their first year of study at Memorial University of Newfoundland with the intention to pursue a program of studies in the Faculty of Arts (with a preference for those doing a minor in Newfoundland Studies if possible). Eligible students must have demonstrated financial need and preference will be given to candidates who also demonstrate that they are active in the community. The bursary is renewable for three additional years as long as the recipient takes courses reflective of a major in the Faculty of Arts, maintains a 70% average, clear academic standing and full-time status. In the event that the recipient does not meet the criteria for renewal, the bursary will be transferred to a selected candidate in the corresponding year who most closely fits the criteria. The bursary is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, Faculty of Arts.

xwave Jamie Morry Memorial Scholarship

This scholarship has been established by xwave in memory of Jamie Morry, a valued employee. One or more scholarships (for a total value of \$2,000.00) will be awarded annually to students of scholarship standing and financial need enrolled in the Faculty of Arts who are doing a program in either Newfoundland Studies or Folklore. If no student meeting the above criteria is eligible, the scholarship will be open to any undergraduate student in the Faculty of Arts. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation by the Dean, Faculty of Arts.

4.3 Faculty of Business Administration

The following are available to students in the Faculty of Business Administration based on a recommendation from the Dean. For definition of scholarship standing for co-op students, see **Scholarships, Bursaries and Awards, General Information**,

The AMC Brokerage Limited Scholarship

This non-renewable scholarship, valued at \$1,000, was established by AMC Brokerage Ltd. Eligible candidates must be full-time undergraduate students in the Faculty of Business Administration, with either a finance or marketing specialty, and have scholarship standing. This scholarship is non-renewable and will be awarded to a different student every year for each of the five available years. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Baine Johnston Corporation Scholarship for International Study

This scholarship was established from contributions to the University's *Opportunity Fund Campaign* by Baine Johnston Corporation. Valued at the annual interest on the endowment, the scholarship will be awarded to an undergraduate Business student who is on an academic international exchange or on a Harlow term. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon a recommendation from the Dean, Faculty of Business Administration.

BDO Canada Leadership Award

The Award, valued at a portion of the income on the investment, will be given to a student enrolled in the Bachelor of Commerce (Co-op) program. This award will be given to a student who has expressed a strong interest in pursuing the Chartered Accountant designation. Selection will be based upon academic standing and demonstrated leadership abilities. The contribution from BDO's Local Office is in memory of Robert Fleming. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Lawrence S. Bloomberg Scholarship in Business Administration

This scholarship was established by a donation from First Marathon Securities to Memorial University of Newfoundland's *Opportunity Fund* Campaign. The scholarship, valued at the annual accrued interest, will be awarded to an undergraduate student in the Faculty of Business Administration. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Ernest C. Boone Award

The Ernest C. Boone Award was established by a donation from Mrs. Audrey Boone through the Tanglers Group of the St. John's Rotary Club to commemorate the late Ernest Boone, prominent Newfoundland entrepreneur and founder of E.C. Boone Limited. The award valued at \$500.00 will be granted to a student with a minimum of clear standing, as defined by the University, who is completing the Advertising Management course and who best demonstrates motivation, enthusiasm and perseverance. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon a recommendation from the Dean, Faculty of Business Administration in consultation with the course instructor.

The Eric Briffett Small Business Scholarship

This scholarship valued at \$1,000.00, was established in honour of Eric Briffett by his four children. Mr. Briffett was born in Rosedale, Newfoundland in 1916. He, along with his brothers, formed and operated Louis Briffett and Sons Ltd. a successful logging, sawmilling, lumber, and building supply business in Central and Eastern Newfoundland, with retail outlets in Glovertown and Pound Cove, Bonavista Bay. He retired in 1988 at the age of 71. The scholarship will be awarded to a second or third year undergraduate Business student who was born in Newfoundland and Labrador or whose parents were born in Newfoundland and Labrador. Preference will be given to students studying Small Business and/or Entrepreneurship. The scholarship shall be awarded on the basis of financial need, personal values and scholarship standing. The qualifying student must demonstrate strong personal values including a strong work ethic and high personal integrity. The student must have maintained a minimum of a B average in the prior semester. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Business Administration.

The Bristol Group Scholarship for International Study

This scholarship, valued at a portion of the annual interest, is available to undergraduate students, in the Faculty of Business Administration. It was established with contributions from The Bristol Group. It is awarded to recognize students of scholarship standing who are participating either on an exchange term or Harlow term and who have a demonstrated interest in international studies. Students who are considered for this scholarship are expected to be completing courses which fulfill a concentration in marketing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Browning Harvey Ltd. Scholarship

This scholarship, valued at \$1,000.00, has been donated by Pepsi-Cola Ltd. It is open to undergraduate students of scholarship standing, enrolled in Business Administration, who have demonstrated leadership ability. Activities within various student organizations, participation on faculty committees, and/or contribution to the larger community, will be considered in determining appropriate candidates. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Greg Campbell Memorial Business Award

This award is the result of a generous donation by Eleanor Swanson in memory of her late husband, J. Gregory Campbell. Interest on the fund will provide one award to a full-time undergraduate student in the Faculty of Business Administration who is entering the final year of study. Candidates for this award must have a demonstrated record of active community involvement, volunteer work, and/or service in the Faculty/University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Greg Campbell Memorial Business Scholarship

This scholarship is the result of a generous donation by Eleanor Swanson in memory of her late husband, J. Gregory Campbell. Interest on the fund will provide one scholarship to a full-time undergraduate student in the Faculty of Business Administration who is entering the final year of study. Candidates for this scholarship must have scholarship standing and a demonstrated record of active community involvement, volunteer work, and/or service in the faculty/University. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

Canadian Association of Petroleum Producers (CAPP) Award for Exemplary Work Terms in the Upstream Petroleum Industry

This award was established by the Canadian Association of Petroleum Producers. Two awards, valued at \$500.00 each, will be given annually to students who have completed work terms with employers related to the oil and gas industry. This includes employers involved in the upstream petroleum industry, oilfield supply/service companies, petroleum industry associations and applicable government departments or agencies involved in regulating the petroleum industry. One award will be given to a student who has completed Work Term 2, and the second award to a student who has completed Work Term 3 within the Bachelor of Commerce (Co-operative) Degree Program. In order to be considered for an award, an applicant must submit a Nomination Form completed by the applicant's employer for the work term for which the award is being sought. Recommendations will be based upon the nomination, the applicant's work report which has applicability to the oil and gas industry, and the applicant's work performance. All submissions will be reviewed by members of Business Co-operative Education and recommendations will be made to the Dean, Faculty of Business Administration. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

Judy Caul Memorial Bursary

The Judy Caul Memorial Bursary has been established by Production Services Network in memory of Judy Caul who worked with their company for over 10 years and was a valued employee and dedicated Human Resources Professional. Valued at \$1,000 annually, this Bursary will be awarded to a full-time undergraduate student in the Bachelor of Commerce Program, Faculty of Business Administration, who has chosen Human Resources as their discipline. The bursary will be awarded to a student who meets the minimum academic requirements of a bursary and displays leadership ability and who demonstrates financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Certified General Accountants Association of Newfoundland Scholarship

The C.G.A. Association of Newfoundland offers a \$1,000.00 scholarship to a student majoring in Accounting who is entering the final

year of studies. In addition to the cash award, \$1,500.00 will be applied to the student's tuition costs through enrolment in the C.G.A. program within three years of their undergraduate University graduation date.

The Certified Management Accountants of Newfoundland & Labrador Scholarship

The Society of Management Accountants of Newfoundland and Labrador offers annual scholarships with a value of \$1000 each to full-time students concentrating in accounting who have completed or are presently completing Business 7160 Advanced Topics in Managerial Accounting. Candidates must be pursuing a career in management accounting as evidenced by writing or being exempted from the first CMA national entrance exam and registering for the CMA program with the Society of Management Accountants of Newfoundland & Labrador. Selection will be based on the students' character, financial need and scholarship standing. These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon a recommendation from the Dean, Faculty of Business Administration.

The Chartered Accountants' Education Foundation of Newfoundland, Inc. Scholarship

The CA Education Foundation, formed by the Institute of Chartered Accountants of Newfoundland, offers five scholarships annually to students enrolled in the B.Comm.(Co-op) programs as follows:

- two scholarships of \$2000 each to students entering either term six or seven
- two scholarships of \$1250 each to students entering term five
- one scholarship of \$1250 to a student entering term four

These scholarships will be awarded to students who have expressed a strong interest in pursuing the Chartered Accounting designation. Selection will be based upon academic standing and demonstrated leadership abilities. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Computing and Communications Scholarship

This scholarship has been established by the Department of Computing and Communications (C&C) at Memorial University of Newfoundland in support of the dependants of its staff members. To be eligible the recipient must have scholarship standing, be a full-time undergraduate student and be a dependant of a current, retired, deceased, or former (having worked in the unit for a minimum of 5 years) employee of C&C or be a current student employee of the Department. One or more scholarships may be awarded in any given year. In the absence of a candidate meeting the above criteria, the scholarship will be awarded to a student beyond first year majoring in Computer Science in the Faculty of Science or a student in the Faculty of Business Administration. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, or by telephone to (709) 864-3956. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Rob Crosbie Scholarship for International Study

This fund was established from contributions to the University's *Opportunity Fund* Campaign by Mr. Rob Crosbie. The scholarship, valued at \$1,250.00 annually, will support a Business student (graduate or undergraduate) who is on an academic international exchange and who has shown interest in pursuing a career in the oil and gas industry. In the case of undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration. In the case of graduate students, it will be awarded by the Dean, School of Graduate Studies upon recommendation of the Faculty Committee on Graduate Studies.

The DaimlerChrysler Scholarship

This scholarship, valued at \$5,000.00 annually, is the result of a generous endowment to Memorial University of Newfoundland by DaimlerChrysler Canada Inc. in support of The *Opportunity Fund*. The scholarship will be available to an undergraduate student in the Faculty of Business Administration who is in second year or beyond. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Business Administration.

Craig Dobbin Memorial Scholarship for Master of Business Studies at the Waterford Institute and Memorial University of Newfoundland

This scholarship has been established by Mr. Pat O'Callaghan, the Ireland Business Partnership, the Ireland Newfoundland Partnership, the Provincial Department of Education, and Craig Dobbin family members in memory of Mr. Craig Dobbin. It will be awarded on an annually rotating basis to students at The Waterford Institute of Technology (WIT) and Memorial University of Newfoundland. In year one, and every alternating year thereafter, the scholarship will be awarded to a recent honors graduate (in the past 2 to 3 years) of one of the undergraduate business programs in the Faculty of Business Administration program or Grenfell Campus, Memorial University of Newfoundland who is accepted into the Master of Business program, at the Waterford Institute of Technology, Waterford, Ireland. In the event that there is no such candidate, the scholarship will be awarded to two Memorial University of Newfoundland exchange students (undergraduate or graduate) to study (one academic term) at the Waterford Institute of Technology. In year two, and every alternating year thereafter, the scholarship will be awarded to an undergraduate student from the Waterford Institute of Technology who will be selected to attend Memorial University of Newfoundland's Faculty of Business Administration's M.B.A. program. In order for a WIT student to complete the program in one year, they must have an honors undergraduate business degree, or a business degree with significant academic standing. The student must meet Memorial University of Newfoundland's M.B.A. admission requirements. The student may take two years to complete the degree; however, scholarship funding will be available for one year only. In the event that no such student is selected from the Waterford Institute, then WIT will select a business undergraduate or graduate student to complete a student exchange (one academic term) at the Faculty of Business Administration or Grenfell Campus, Memorial University of Newfoundland. Scholarship recipients will be required to complete and present a report on an aspect of the Ireland Newfoundland Partnership. In the case of Memorial University of Newfoundland undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration or the Vice-President of Grenfell Campus. In the case of Memorial University of Newfoundland graduate students, the scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Business Administration.

Paddy Dobbin Scholarship in the Faculty of Business Administration

The Paddy Dobbin Scholarship is endowed through a gift from the Dobbin family members (children and grandchildren) in memory of Paddy Dobbin, a St. John's native who married Rita Power on March 17, 1929. From his early life Paddy demonstrated a strong entrepreneurial spirit, a man not afraid of hard work or taking risks. He instilled these qualities in his eleven children. Paddy guided with much love and a spirit that anything was possible. Through example, he taught his children to never fear challenges, feeling there was always something to be learned. The scholarship is open to undergraduate students of scholarship standing, enrolled in the Faculty of Business Administration in the International Bachelor of Business Administration (iBBA) program, who have been accepted for, but not yet undertaken, the study abroad component of their program. Preference will be given to students who have been active in extracurricular activities at Memorial University of Newfoundland and/or in the community. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Ernst and Young Scholarship in International Business

This fund was established from contributions to the University's *Opportunity Fund* Campaign by the partners Ernst & Young, St. John's and its predecessor. This scholarship, valued at the accrued interest on the endowment, will be awarded to an undergraduate student in the Faculty of Business Administration entering academic Term 6 in the cooperative education program. In awarding this scholarship, preference will be given to students with scholarship standing and a demonstrated interest pursuing a career in accounting. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Faculty of Business Administration Aboriginal Scholarship

A scholarship valued at \$500 will be awarded to an Aboriginal resident of Newfoundland and Labrador in the Faculty of Business Administration. Eligible students must be in scholarship standing, be enrolled as a full-time undergraduate or graduate student in the Faculty of Business Administration at Memorial University of Newfoundland and provide confirmation of their Aboriginal status. In the case of undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean, Faculty of Business Administration. In the case of graduate students, the scholarship will be awarded by the Dean of Graduate Studies upon the recommendation from the Dean, Faculty of Business Administration.

Faculty of Business Administration Associates' Scholarship Fund

This fund was established through the contributions of members of the Associates' Program of the Faculty of Business Administration. The fund will provide scholarships for undergraduate and graduate students in the Faculty. Awards will be made on the basis of academic standing but such factors as financial need and contribution to the Faculty may be taken into account.

In the case of the undergraduate program, scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration. In the case of the graduate program, the scholarships will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Business Administration.

The Fagan Scholarship in the Faculty of Business Administration

This scholarship, valued at \$1,000.00 annually, was established by Steve Fagan, B. Comm. (Co-op) '81. To be eligible, candidates must be full-time undergraduate students in the Faculty of Business Administration who have scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Fry Family Foundation MBA Leadership Scholarship

The Fry Family Foundation M.B.A. Leadership Scholarship, valued at \$5000 will be awarded annually to a full-time student in the M.B.A. program at Memorial University of Newfoundland. The award will be given on the basis of academic excellence and leadership, and preference will be given to residents of Newfoundland and Labrador. The recipient of this scholarship should demonstrate a good interest in, and a strong commitment to, Newfoundland and Labrador. The scholarship will be awarded by the Dean, School of Graduate Studies, upon the recommendation of the Dean, Faculty of Business Administration.

The P.J. Gardiner Award for Small Business and Entrepreneurship

This fund was established from contributions to the University's Anniversary Fund to commemorate the memory of the late Peter Gardiner, a former Director of Memorial University of Newfoundland's School of Business and a local entrepreneur. This award is valued at \$5,000.00 annually and will recognize student creativity, innovation and entrepreneurship as evidenced by a student's genuine interest in small business and entrepreneurship through the establishment or the intention to establish a new venture. Students in any program of study (graduate or undergraduate) are eligible. To apply for the P. J. Gardiner Award, students are to provide a written report or plan describing their venture. Award finalists will then be asked to make an oral presentation to the Award Selection Committee. The Award Selection Committee will consist of faculty members from the Faculty of Business Administration and the business community at large. In the case of undergraduate students, the awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of this panel. In the case of graduate students the awards will be made by the Dean, School of Graduate Studies upon the recommendation of the Committee on Graduate Studies of the Faculty of Business Administration.

The Peter Gardiner Award for International Study

This fund was established from contributions to the University's Anniversary Fund to commemorate the memory of the late Peter Gardiner, a former Director of Memorial's School of Business. Interest from the fund will provide one or two annual awards of \$2,500.00 each to support Business students (graduate and/or undergraduate) to study at Memorial University of Newfoundland's Harlow Campus or at another university outside Canada. In the case of undergraduate students, the awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration. In the case of graduate students, the awards will be made by the Dean of Graduate Studies upon recommendation of the Faculty Committee on Graduate Studies.

The Brian J. Grant Scholarship for International Study

This scholarship was endowed through a donation to the University's *Opportunity Fund* campaign by Mr. Brian J. Grant in 1999. The scholarship, valued at the annual interest on the endowment, will support an undergraduate business student who is on an academic international exchange. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Great-West Life Scholarship in Business Administration

This scholarship was established by a donation to Memorial University of Newfoundland from Great-West Life. One scholarship, valued at a minimum of \$1500 annually, will be awarded to an undergraduate student in the Faculty of Business Administration. The scholarship will be awarded to a student who has been involved in student life and has made a contribution to the university community through his/her leadership on campus. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Business Administration.

The William A. Gruchy Memorial Scholarship

This scholarship, valued at \$1000.00, has been donated by Pepsi-Cola Canada Ltd., in memory of Mr. William Gruchy, a long-time associate of Browning Harvey Ltd., Pepsi-Cola's franchised bottling business in St. John's. The award is open to undergraduate students of scholarship standing, enrolled in Business Administration, who have demonstrated leadership ability. Activities within various student organizations, participation on faculty committees, and/or contribution to the larger community, will be considered in determining appropriate candidates. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the Faculty of Business Administration.

The James B. Hand Memorial Scholarship in Business Administration

This scholarship was established through a contribution to the *Opportunity Fund* by friends, family and former business associates in memory of Mr. Jim Hand. Interest on the fund will provide one or more scholarships for undergraduate students in the Faculty of Business Administration. The scholarship(s) will be awarded on the basis of scholarship standing, but such factors as financial need and contribution to Business Administration may be taken into account. The scholarship(s) will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Rolf G. Hattenhauer Scholarship Fund

This fund was established by the Labour Management Co-operation Committee to commemorate the late Professor Rolf G. Hattenhauer, a well-known Newfoundland arbitrator who was actively involved in setting up the Committee. Professor Hattenhauer was a member of the Department of Commerce (later the Faculty of Business Administration) at Memorial University of Newfoundland from 1965 until his death in 1983, and during the year 1969-70 served as Head (pro tem) of the Department. The fund will provide scholarships and fellowships on a rotating basis in undergraduate and graduate studies in Business Administration.

In the case of the undergraduate scholarships, preference will be given to students in Terms 6 and 7 of the Bachelor of Commerce program who are majoring in Labour Relations. These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Business Administration.

In the case of the graduate fellowships, preference will be given to those students in the Master of Business Administration program who are concentrating in or conducting research on the area of personnel and industrial relations. The graduate fellowships will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Business Administration. If a suitable graduate student is not available in a given year the scholarship for that year may be awarded to an undergraduate student.

The Kevin Hawco Memorial Scholarship

The Kevin Hawco Memorial Scholarship has been established through a generous commitment made by Mr. Rob Crosbie in memory of a friend and colleague, Kevin Hawco. The scholarship, valued at \$1,250.00 annually, will recognize student excellence in the Bachelor of Commerce program at Memorial University of Newfoundland. To be eligible, the student will be in scholarship standing and enrolled full-time within the Faculty of Business Administration. Preference will be given to students enrolled in courses required for the concentration in supply chain management. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Hibernia Project Scholarship

These scholarships, established by the Hibernia Management and Development Company Ltd. are tenable at Memorial University of Newfoundland and are valued at an amount determined by the annual income on the investment. They are awarded annually as follows:

- Four students entering Term 3 of the Faculty of Engineering and Applied Science with two awarded to male students and two awarded to female students.
- Two students entering Term 3 of the Faculty of Business Administration with one awarded to a male student and one awarded to a female student.

Candidates for these awards must be of scholarship standing but consideration may also be given to their financial circumstances. All candidates must be residents of Newfoundland and Labrador. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Deans, Faculty of Business Administration and Faculty of Engineering and Applied Science.

The Jim Hood Memorial Scholarship

This scholarship was established through the generous bequest of Jim Hood, an alumnus and friend of the Faculty of Business Administration. Valued at a portion of the income on the investment, the scholarship is open to full-time undergraduate and graduate students in the Faculty of Business Administration who meet scholarship standing and who have been active in athletics at Memorial University of Newfoundland and/or in the community. In the case of the undergraduate student, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Business Administration. In the case of the graduate student, the scholarship will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Business Administration.

The J. Carson Hudson Memorial Scholarship

In memory of local businessman and entrepreneur J. Carson Hudson, this scholarship, valued at a portion of the income on the investment, has been established by LeGrow's Travel Limited to encourage students' participation in small business and to assist a student entering the Faculty of Business Administration. This scholarship is renewable for two successive academic years provided that scholarship standing has been maintained. Preference will be given to those students who have enrolled in a full course load at the undergraduate level and have been away from the educational system for a period of two years or longer, working in an area of small business. Financial need may be a consideration. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Scott Hussey and Karen Joseph Memorial Scholarship in Business Administration

This scholarship was established from contributions to Memorial University of Newfoundland by fund raising efforts of the Commerce Class of 1985 and other friends and relatives of Scott and Karen. The scholarship, valued at a portion of the annual income, will be awarded to an undergraduate student beyond Term 4 in the Co-op program of the Faculty of Business Administration. It is not necessarily intended for the student with the highest academic average but rather a student who combines scholarship standing and leadership ability. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Business Administration. While financial need is not to be considered a major criterion, it can be used as a deciding factor in the case of students who may otherwise be equally qualified in a given year.

International Personnel Management Association Award

A \$250.00 award will be presented annually to an outstanding student in the undergraduate course, Advanced Personnel Management. The recipient will be recommended by the Scholarship Advisory Committee of the Faculty of Business Administration acting upon the advice of the course instructor. Scholastic abilities, financial need and class participation will be the basis upon which the award will be made. The recipient of the award will also be eligible for one year's free membership in the local Chapter of IPMA-Canada.

The Ron Joyce Foundation Scholarships

These scholarships are the result of a generous endowment to Memorial University of Newfoundland by the Ron Joyce Foundation. Interest on the fund will provide scholarships to full-time undergraduate students entering Memorial University of Newfoundland's Faculty of Business Administration who are Canadian citizens with scholarship standing and demonstrated financial need. These scholarships will be valued at two semester's tuition for five courses (30 credit hours) and are renewable for up to four years (3 years plus original) provided the candidates maintain first class and scholarship standing. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Business Administration.

The Dan Kroeker Award

The Dan Kroeker Award, valued at \$500, is made possible through an annual donation from Dan Kroeker. The Award is available to a deserving student enrolled full-time in the Bachelor of Commerce (Co-op) program who is in clear academic standing. Candidates will submit a two to three page essay outlining any financial initiatives/ideas that they have for the improvement/development of Newfoundland and Labrador. The submissions will be judged by a scholarship selection committee in the Faculty of Business Administration. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The A. Bruce LeMessurier Scholarship for Entrepreneurship

This scholarship, valued at a portion of the income on the investment, was established by Sally Lou LeMessurier in memory of her husband A. Bruce LeMessurier. It will be awarded to a student beyond first year in an undergraduate Business program who has demonstrated interest in small business and entrepreneurship through completion of course work, and involvement in volunteer activities in the university and the community related to entrepreneurship. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Business Administration.

Henry and Royce Meinhardt Memorial Bursary

The Henry and Royce Meinhardt Memorial Bursary is endowed through a gift from the Smallwood family (Cathy, Ray, Melissa, Amanda and Matthew) in memory of Henry and Royce Meinhardt, who had two grandchildren choose to study in the Faculty of Business Administration. Though from a modest background, Henry and Royce Meinhardt were entrepreneurially minded and hard workers who founded several businesses in Saint John, New Brunswick. Henry and Royce believed passionately that personal development through formal education as well as the general acquisition of knowledge was critical to the attainment of many personal goals. This bursary will be awarded to a full-time undergraduate student in the Bachelor of Commerce program, who will be participating in an international exchange (Harlow or other university with an exchange agreement in place). The bursary, valued at a portion of the income on the investment, will be awarded to a student who meets the minimum academic requirements of a bursary as defined by Memorial University of Newfoundland, demonstrates financial need and a good work ethic. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, Faculty of Business Administration.

Molson Breweries Scholarships

Two scholarships, valued at \$1000.00 each, will be awarded to Newfoundland students entering the Faculty of Business Administration from first year university. The scholarships will be based on academic merit and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

Molson Breweries Scholarships

Two scholarships of \$500.00 each are to be awarded to Newfoundland students commencing Term 5 and Term 6 respectively of the Business Administration program. Scholarship standing as well as financial need will be taken into consideration in selecting candidates. The scholarships are awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The John J. Murphy Scholarship in Business Administration

This scholarship, valued at \$500.00, is awarded annually to a student who has achieved academic excellence upon completion of the first year (Terms 1 and 2) of the Business Administration program. The award, however, is not necessarily intended for the student who has received the highest average in this category. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Newfoundland and Labrador Hydro Corporation Scholarships in Business Administration

These scholarships, offered annually by the Newfoundland and Labrador Hydro Corporation, are valued at \$1000.00 each. They are tenable in the Faculty of Business Administration at Memorial University of Newfoundland and are distributed as follows:

- Two to students entering Term 7
- Two to students entering Term 6
- One to a student entering Term 5

The scholarships will be awarded on the basis of academic excellence, taking into consideration such factors as financial need and character. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean, Faculty of Business Administration.

Oil and Gas Week Scholarship

Valued at \$1,000 each, these undergraduate scholarships are established by a gift over three years from the organizers of Oil and Gas Week, a program of events held annually in St. John's, NL for the purpose of promoting the oil and gas industry. Two scholarships will be awarded each year. To be eligible, students must be enrolled full-time beyond the first year of an undergraduate program in the Department of Earth Sciences, the Faculty of Engineering and Applied Science, or the Faculty of Business Administration. Eligible candidates must also have scholarship standing and preference will be given to students who graduated from a high school in Newfoundland and Labrador outside of the metropolitan St. John's area. Each year the two recipients must be from different faculties, with each identified academic unit to be represented no more than twice in the three year period of the term of the fund. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on a recommendation from the appropriate academic discipline.

The James R. Pearcey Scholarship for Entrepreneurism

This scholarship is the result of a generous donation by the donor, Mr. Wade K. Dawe, Bachelor of Commerce '92. It is valued at \$10,000.00 per annum and is established in memory of James R. Pearcey, a Civil Engineering graduate and former president of his 1993 class, at Memorial University of Newfoundland. The scholarship recipient will be a student in the Faculty of Business Administration in any academic year, in good academic standing and who shows clear evidence of a significant propensity toward entrepreneurial activities and study as assessed by an essay competition. The recipient will be selected by a faculty committee, the composition of which will be determined by the Scholarships Office, but will include representation by both the Faculty of Business Administration and the Faculty of Engineering and Applied Science. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of this committee.

Jude Pearson Memorial Scholarship in the Faculty of Business Administration

This scholarship, valued at \$500 annually, was established by the Class of 1999 in memory of classmate, Jude Pearson. Eligible candidates must be full-time undergraduate students in the Commerce program of the Faculty of Business Administration, and have scholarship standing. Preference will be given to students from Bell Island and those demonstrating financial need. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

Pinsent Scholarship in the Faculty of Business Administration

This scholarship, valued at \$1,000.00 annually, was established by Mark Pinsent, B. Comm (Co-op) '80. To be eligible, candidates must be full-time undergraduate students in the Faculty of Business Administration, and have scholarship standing. Preference will be given to candidates on work-term and participating in an international work or study abroad placement. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The PMI NL Chapter Jamie Morry Memorial Scholarship

This scholarship, valued at \$500, was established by the Newfoundland and Labrador Chapter of the Project Management Institute in memory of Jamie Morry to acknowledge his commitment to the discipline of project management. The scholarship is open to

undergraduate students of scholarship standing enrolled in Business Administration, doing a concentration in Management Information Systems (MIS) or Management Science who have demonstrated an interest in project management. In order to be considered for this scholarship, students must be nominated by a faculty member in the Faculty of Business Administration. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Public Accountants Licensing Board Scholarship

This scholarship will be awarded annually to an undergraduate business student entering the final year of an academic program in the Faculty of Business Administration. It will be valued at a portion of the income on the endowment. Selection of the successful candidate will be based on scholarship standing and demonstrated interest in pursuing public accounting as a profession. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the Faculty of Business Administration.

The Gar Pynn Memorial Harlow Scholarship

This scholarship is endowed through a gift from Marg Pynn, family, and friends in memory of Gar Pynn, past director and faculty member of the Faculty of Business Administration. Eligible candidates must be full-time undergraduate students in the Faculty of Business Administration, and have scholarship standing. Preference will be given to students applying to complete an academic term at Memorial University of Newfoundland's Harlow Campus. The scholarship, valued at a portion of the income on the investment, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The S.P. Raheja Memorial Scholarship

This scholarship, valued at a portion of the income from the endowment, was established through generous gifts from the friends and family members of S. P. Raheja. It is to be presented during National Co-operative Education Week and will rotate annually between the Faculty of Engineering and Applied Sciences and the Faculty of Business Administration. To be eligible, students must be in scholarship standing, and be enrolled in the co-operative program, having successfully completed work term four in Engineering or work term two in Business in the previous scholarship year. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Director of the Division of Co-operative Education.

The RBC Investments Scholarship

This scholarship, in memory of Maxwell J. Pratt, has a value of \$1,000.00 and is open to a student entering Term 7 of the Business Administration program who is majoring in the area of Finance. Selection of the successful candidate will be based on academic merit and the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

William S. Rowe Scholarship in Business

This scholarship, valued at a portion of the income on the investment, will be awarded to a student in the Bachelor of Commerce (Co-op) program in the Faculty of Business, who has expressed a strong interest in pursuing the Chartered Accountant designation. Selection will be based on scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration.

The Scotsburn Dairy Group Scholarship

This scholarship was established from contributions to the Memorial University of Newfoundland's *Opportunity Fund* Campaign by The Scotsburn Dairy Group. This scholarship, which will be valued at a portion of the accrued interest on the endowment, is intended to recognize academic excellence and will be awarded to a Newfoundland and Labrador student entering term 5 of the Business Cooperative Education program. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Business Administration.

The Dr. Robert W. Sexty Scholarship for Social Responsibility

The scholarship, valued at a portion of the income on the investment, will be awarded annually to a full-time or part-time student enrolled in any undergraduate or graduate business program. The scholarship will be awarded to a student who has demonstrated commitment to social responsibility through academic achievement in a social responsibility course or ethics in business related courses, or successful completion of an M.B.A. research project relating to social responsibility, or involvement in social responsibility as exemplified through university or community service. In the case of undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and the recommendation of the Dean, Faculty of Business Administration. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Business Administration.

Dr. Lessey Sooklal Scholarship

This fund was established in memory of Dr. Lessey Sooklal, who joined the School of Business in 1978 (later renamed the Faculty of Business Administration), and was an active member of the faculty until his death in 2006. A full Professor in the area of Human Resource Management, Dr. Sooklal shared his passion for the subject with his students and colleagues. The fund will provide an annual scholarship, valued at a portion of the income on the investment, to an undergraduate student in Business Administration who is concentrating in Human Resource Management. The scholarship will be awarded to students in Terms 6 or 7 of the Bachelor of Commerce program, or the final year of the Bachelor of Business Administration program. The main criteria in awarding the scholarship are scholarship standing and excellence in and commitment to the area of Human Resource Management. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Business Administration.

The St. John's Maple Leafs Legacy Scholarship

This scholarship was established by the Leafs Foundation Inc. and the St. John's Maple Leafs Booster Club to recognize the contribution of the St. John's Maple Leafs hockey team to youth and community in the Province. Valued at a portion of the income on the investment, the scholarship is open to full-time undergraduate or graduate students in the Faculty of Business Administration who meet scholarship standing and who have been active in athletic or extracurricular activities at Memorial University of Newfoundland and/or in the community. In the case of undergraduate students the scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the Faculty of Business Administration. In the case of graduate students, the scholarship will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of the Faculty of Business Administration.

The James P. Steinhauer Memorial Scholarship in Small Business and Entrepreneurship

This scholarship is awarded out of income from a bequest by Mrs. S. Louise Steinhauer made in memory of her husband James and her son James, both prominent St. John's entrepreneurs. The scholarship will be awarded to a student in Term 5 of the commerce program who is completing a concentration in Small Business/Entrepreneurship. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation of the Dean, Faculty of Business Administration.

The Sun Life Financial Scholarship in Applications of Technology

The Sun Life Financial Scholarship in Applications of Technology is consistent with the company's belief that education is key to the future well-being of individuals, business and society. The scholarship, valued at the annual interest on the endowment, will be designated on an annually rotating basis to a student on the Corner Brook campus and the St. John's campus. It will be awarded to a student within the faculties of Science, Engineering and Applied Science and Business Administration who is focussing his/her studies on the application of technology and has demonstrated scholarship standing. In addition, the student will have actively participated in extra-curricular activities and have been active in student life. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the appropriate Dean and/or the Vice-President of Grenfell Campus.

The Toromont Scholarship

This scholarship, valued at the annual interest on the endowment, has been established by Toromont Industries Ltd. as part of the *Opportunity Fund Campaign*. It will be awarded on an annually rotating basis between students in Business Administration and Engineering and Applied Science. It will be awarded on the basis of scholarship standing, extracurricular activities, and need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean of the appropriate discipline.

The Ralph Vincent Memorial Business Scholarship

The scholarship is valued at \$5,000, and is provided via a contribution to Memorial University of Newfoundland by Mr. Darryl Fry. It will be awarded on the basis of scholarship standing to residents of Newfoundland and Labrador enrolled in first year Business Administration at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, Faculty of Business Administration.

The James J. Walsh Memorial Scholarships

Two undergraduate scholarships, established by the Walsh family to commemorate the memory of a dear husband and father, James J. Walsh, are tenable at Memorial University of Newfoundland and are valued at \$500.00 each. One scholarship will be tenable in the Faculty of Business Administration to a physically handicapped student. If no physically handicapped student is available, the award will be open to any student enrolled in the Faculty provided that the student is in good academic standing and demonstrates financial need. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean, Faculty of Business Administration.

The Robert Westcott Memorial Scholarship

This scholarship was established by Mrs. Mary Westcott in memory of her late husband, Mr. Robert Westcott. It is valued at a portion of the annual interest on an endowment and will be awarded on a rotating basis to students beyond first year who have a strong commitment to post-secondary education and who are majoring in Business Administration and/or Economics. It will be based on scholarship standing and financial need and will be awarded to a student who was born in Newfoundland and Labrador. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean/Department Head of the appropriate discipline.

Geoffrey H. Wood Foundation Scholarship

This scholarship, established by the Geoffrey H. Wood Foundation, is currently valued at \$2,500.00 and will be awarded annually to an undergraduate student in Term 4 or later in the Faculty of Business Administration who has consistently demonstrated academic excellence. The scholarship is non-renewable and is to be awarded with a maximum of one other concurrent award. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of Business Administration.

The Wood Gundy Scholarship for Undergraduate Business Students

The Wood Gundy Scholarship for Undergraduate Business Students will be awarded annually to a student of scholarship standing in Business Administration, who has demonstrated leadership ability through participation in student, faculty or University activities and/or contribution to the larger community. Preference will be given to students with a demonstrated career interest in the area of finance. The value of this scholarship will be determined by the annual income derived from the initial endowment. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Business Administration.

The Wright-Green Undergraduate Award in Business Studies

The Wright-Green Undergraduate Award in Business Studies valued at \$500, honours a century of service by two small businesses in rural Newfoundland – Robert Wright and Sons (Harry and Ralph) and George Green and Bros., later George Green and Son (Robert) Ltd. Both enterprises were an integral part of the social fabric of their respective communities of Greenspond and Valleyfield. Eligible candidates must be full-time undergraduate students in the Faculty of Business Administration. The recipient of this award should have completed or be enrolled in course(s) in French. If there is no suitable student with a focus in French in any particular year, consideration may be given to a student with a similar focus in an alternate second language. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

4.4 Faculty of Education

The following are available to students in the Faculty of Education based on a recommendation from the Dean.

The Gordon Billard Award in Education

A donation has been made to Memorial University of Newfoundland by Mr. Gordon Billard for the purpose of establishing a fund to provide financial assistance to Education students who live at the University's Harlow campus while undertaking approved studies in Great Britain. The award is intended to enhance the student's educational experience in Britain. Its value will be based on the annual interest on the fund. It will be awarded during the Spring semester by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Deputy Provost (Students) and Associate Vice-President (Academic) (Undergraduate Studies) *pro tempore*. Academic achievement and financial need will be considered.

Jeremiah and Theresa Bonia Memorial Award

The award valued at a portion of the income from the endowment, will be given to a full-time student enrolled in any degree program in the Faculty of Education. Selection will be based upon clear academic standing and financial need. Recipients must also be residents of Newfoundland and Labrador (defined as a person who has maintained permanent residence in the Province for a minimum of twelve consecutive months immediately prior to entering the program). Preference will be given to a student who demonstrates leadership abilities, a passion for learning and a commitment to community service. The award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Education.

The Chesley and Katherine Brown Bursary

This bursary, valued at a portion of the income on the endowment, has been established by the children of the late Lieutenant-Colonel

and Mrs. William Chesley Brown. Lt.-Colonel Brown (1899-1962) guided the Salvation Army's educational program for thirty-five years. For the final twelve years he served as the Superintendent of Education for the Salvation Army within the Department of Education. Mrs. Lt.-Colonel Katherine England Brown (nee Cave; 1900-1977) taught at the Salvation Army Training College for Officers and was active in the Home and School Association of the Salvation Army College for a number of years. Candidates must be full time undergraduate students with demonstrated financial need and clear academic standing. The Bursary will be awarded to students in the Faculty of Education, with preference for those entering their first year. The bursary is renewable as long as the recipient remains in clear academic standing and continues as an undergraduate student in the Faculty of Education. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The Bruton Scholarship Fund

Dr. F.A. Bruton, friend and colleague of J.L. Paton, taught Nature Study to teachers in three successive Memorial University College summer schools, from 1926-28, at Paton's request. At his death in 1930, Dr. Bruton made a bequest to the College from which two Bruton Scholarships are awarded. These scholarships, valued at \$500.00 each, are awarded annually to students who have demonstrated interest in Plant Biology. One award will be available to a student majoring in Biology whose special interest is in the field of Plant Biology. The second award will be available to an Education student whose main area of interest is in the teaching of science, in particular, plant biology. In the absence of a suitable candidate from the one department, two awards may be made by the other department in accordance with the above conditions. Academic ability and financial need will be taken into consideration in making these awards. They will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of the department concerned.

The CFUW Edith Creighton Scholarship

This scholarship has been established by The Canadian Federation of University Women (CFUW) St. John's and is named after Edith Creighton (1892-1994), the first president of CFUW St. John's when it was formed in 1945. One scholarship, valued at \$2000, may be awarded annually, to a woman enrolled full-time in the Masters or Doctoral program in the Faculty of Education. To be eligible, candidates must have scholarship standing. The scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Education.

The Dr. Linda Coles Early Literacy Education Scholarship

This Scholarship was created by Dr. Linda Coles, a graduate of the B.ED and M.ED programs at Memorial University of Newfoundland. Dr. Coles is a strong supporter of early Literacy education in the Province. The recipient will be a full-time undergraduate student who graduated from a high school in Newfoundland and Labrador and who is in their professional year as a primary/elementary student teacher (Internship). They will have demonstrated dedication to their teaching role specifically in the area of Literacy and be in Scholarship Standing. The scholarship will be valued at \$1000. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The Dr. Linda Coles Primary/Elementary Literacy Scholarship

This scholarship is created by Dr. Linda Coles, a graduate of the B.A.(Ed.), B.Ed., M.Ed. and Ph.D. programs at Memorial University of Newfoundland. During her years as a primary/elementary teacher, a provincial curriculum development specialist, and the provincial Executive Director of Literacy, Dr. Coles has been an advocate for literacy. Her commitment to early literacy, exemplary teaching and to honoring children's voices and perspectives continues in her current work with the Faculty of Education. The recipient of the Dr. Linda Coles Primary/Elementary Literacy Scholarship will be a full-time student in the Primary/Elementary Degree Program. The scholarship will be based on scholarship average with consideration for the following courses: Education 3312, 3322, 3543, 3951, and 3952 and the internship component. This annual scholarship will be valued at \$1000. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Education.

Alice Cook Education Award

This award was established by Mr. Clayton C. Cook. The award, in honour of his wife Alice Cook, celebrates her love of learning and education. The award will be valued at a portion of the income on the endowment and will be awarded annually to a student who meets the minimum academic requirements for an award as defined by the University. The recipient may be enrolled in any year of any undergraduate education degree programs in the Faculty of Education. The Award will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The Dr. David Dibbon Leadership Scholar Award

The David Dibbon Award, valued at \$10,000 (\$5000 per year for two years), has been established by his family, friends, colleagues and students to commemorate the life and work of Dr. David Dibbon, Dean of the Faculty of Education, 2008-2010. David was committed to research focused on improving schools and school systems in Newfoundland and Labrador and elsewhere. He had great dreams of what public education could be. He was passionate about enabling schools to become better places for students to learn and for teachers to work. He was a transformational leader and change agent committed to collaborative partnerships and teamwork. He had a gift of innovative thinking, a visionary spirit, and the tenacious patience required to successfully lead meaningful educational reform. It will be awarded in alternating years to a doctoral student in educational administration who holds Dr. Dobbins ideals and has been accepted into Ph. D. studies in the Faculty of Education. \$5000 will be awarded in year one, when the student begins full-time studies. The second \$5000 will be awarded after successful completion of the oral comprehensive examination. The recipient will be "The David Dibbon Leadership Scholar" and will be expected to share his or her research findings with practitioners. The award will be made by the Dean of Graduate Studies upon the recommendation of the Dean of Education.

The William J. FitzGerald Memorial Bursary

This Bursary was donated by Barbara C. FitzGerald in memory of her father, William J. FitzGerald (1897-1971) who was a St. John's businessman for many years. The award, valued at the annual interest on an endowment, is directed at a full time student in the Faculty of Education with first preference to students in the high school program who demonstrate scholarship standing and financial need. In the event that an eligible student in the high school program is not available in a given year, the Bursary will be awarded to a Bachelor of Education student in one of the other programs as deemed appropriate by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Education.

The Carrie E. Hodder Memorial Scholarship

This scholarship, valued at the annual accrued interest on an initial endowment, has been established by the husband of the late Carrie E. Hodder as a tribute to her 36 year contribution to education as a teacher in the province of Newfoundland and Labrador. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Education on the basis of scholarship standing to students enrolled in Elementary Education.

The Dr. Ethel M. Janes Memorial Scholarship in Education (Undergraduate)

From a sum of money endowed to Memorial University of Newfoundland by the late Dr. Ethel M. Janes, one scholarship valued at \$2,000.00 will be awarded annually on the basis of scholastic achievement. Dr. Janes, a Professor of Education at Memorial University of Newfoundland for twenty-eight years, devoted most of her professional career to study, research and teaching in primary and elementary education. Her contribution to the development of primary and elementary teacher education program within the faculty was significant, as was her influence on primary and elementary education in the schools. Two generations of prospective teachers were her

students. This scholarship will be awarded upon completion of the second year of studies at Memorial University of Newfoundland to a student enrolled in the primary/elementary education program as a first degree. Instalments of \$1,000.00 each will be awarded in two successive academic terms; and the scholarship is renewable for two years provided first-class standing is maintained. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The Eileen Kelly Memorial Bursary

This bursary has been established by the family of Eileen Kelly to honour her dedication to education in Newfoundland and Labrador. As a teacher for more than 40 years in Harbour Grace, she was a role model to many students and served the community in an exemplary way. The bursary will be valued at a portion of the income on the endowment and will be awarded annually. The recipient will be a female student enrolled in her first year of study in the Faculty of Education at Memorial University of Newfoundland. Preference will be given to students who have graduated from a high school in the Avalon West Regional area. The recipient must have demonstrated financial need and must meet the minimum academic requirements for a bursary as defined by the University. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Education.

The Grace Layman Scholarship in Education

The Grace Layman Scholarship in Education has been established through a gift to the University by Professor Grace Layman who devoted her life to the development of educational drama in Newfoundland. Valued at a portion of the income on the investment, one or more scholarships will be given annually to a student from the Faculty of Education at Memorial University of Newfoundland, who meets scholarship standing, with preference given to students who demonstrate exceptional communication skills. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on a recommendation from the Dean, Faculty of Education.

The Loretta Lynch Education Scholarship

This scholarship, valued at \$1,000, was created by Dr. Jackie Lynch, a graduate of the B.ED and M.ED programs at Memorial University of Newfoundland, in memory of her grandmother, Mrs. Loretta Lynch. Mrs. Lynch was a strong supporter of education and an inspiration for learning. The recipient will be a full-time undergraduate student who is in their professional year as a primary/elementary student teacher (Internship) and will have demonstrated dedication to their teaching role. They will have graduated from a high school in Newfoundland and Labrador and be in scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The Effie and Leander Mercer Scholarship

The scholarship was established by Dr. Jean Mercer in honour of her parents, Effie and Leander Mercer. Valued at the annual interest on the endowment, an award will be made alternately to a third year student in Medicine, Engineering and Post-Secondary Education (formerly Vocational Education). In any given year, if no student is eligible in the designated faculty it may be awarded to a student in one of the other two faculties. The successful student must have done most of his/her studies as a mature student. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation of the respective Dean. Financial need must also be taken into account.

The A. Baxter Morgan Memorial Scholarship

This scholarship has been established by Lorraine, spouse of the late Mr. Morgan. He began his career as a teacher after graduation from Memorial University College. Later, he operated his own business in Newfoundland until his retirement to Clarke's Beach. It will be valued at \$500.00 annually and will be awarded to a full-time student in the second year of the Faculty of Education program. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Education.

The John M. and Elsa S. Morgan Scholarships

These scholarships have been bequeathed to the University by the late Dr. John M. Morgan, B.Sc., M.D., and have been named to commemorate Dr. Morgan and his wife Elsa. Up to twenty-five scholarships will be made available annually to undergraduate students who have completed at least one year of studies at Memorial University of Newfoundland within the areas specified below and who will be continuing in these programs. The scholarships, valued at a minimum of \$1,000.00 each, will be disbursed as follows:

- up to five to the Faculty of Medicine
- up to four to the School of Nursing
- up to four to the Faculty of Education
- up to four to the Department of Philosophy
- up to four to the Department of Anthropology
- up to two to the Department of Religious Studies (with preference to students of comparative religions)
- up to two to students in Newfoundland Studies

The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the appropriate Dean/Director/Department Head. Preference will be given, where possible, to students from the Port-de-Grave District.

The Dr. M.O. and Grace Morgan Harlow Bursary

This bursary, valued at a portion of the annual accrued interest on an endowment to Memorial University of Newfoundland from the estate of Dr. and Mrs. Morgan, was established to encourage and assist undergraduate students to attend the University's Harlow Campus. It is open to full-time Memorial University of Newfoundland students attending the Harlow Campus. Up to three bursaries of equal value will be awarded annually to two students in the Faculty of Education (one each in the Spring and Fall semesters) and one to a student in any field of study (in the Winter semester). An application is required to identify those students planning to attend Harlow in the winter semester only and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre. Bursaries awarded in fall and spring will be based on a recommendation from the Dean, Faculty of Education. These bursaries will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Rick Morris Memorial Bursary

This bursary was established in memory of Rick Morris by his family and friends. Rick was a caring individual who was deeply committed to Newfoundland and worked with a variety of individuals, organizations, and government. He was a mentor to many helping professionals, who regularly sought his counsel on personal and professional issues. He was deeply concerned with violence against individuals, particularly women, children, and the survivors of Mount Cashel. He was involved in the establishment of Unified Family Court's mediation services and frequently collaborated with the aboriginal and senior's communities. The bursary, valued at a portion of the income from the endowment, will be awarded annually to a student who is in financial need and meets the minimum academic requirements for a bursary. It will be awarded on a rotating basis to a student enrolled in one of the following academic areas: Year 1- School of Social Work, Year 2- Faculty of Education, Year 3- School of Human Kinetics and Recreation, Year 4- Department of Gender Studies and Year 5- School of Nursing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Unit for which the bursary is being awarded.

The Newfoundland & Labrador Teachers' Association Scholarship

From a sum of money donated to the Anniversary Fund by the Newfoundland & Labrador Teachers' Association, a \$500.00 scholarship has been established at Memorial University of Newfoundland. This scholarship will be awarded annually on the basis of academic excellence and character to a senior student enrolled in the Faculty of Education. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Dean of Education.

The Patti Lynn Noonan Memorial Harlow Travel Bursary

This Bursary, valued at a portion of the income from the endowment, is established in memory of Patti Lynn Noonan by her family. Patti-Lynn's motto was "Live life to the fullest and appreciate it and always tell the people you love that you love them". Patti Lynn will always be remembered for her smile, her laughter, her love of life, her devotion to family, friends and the students in her care, her courage and her determination. Patti Lynn's experience at Harlow was a highlight of her time at Memorial University of Newfoundland. The purpose of the Bursary is to enable the recipient to travel outside of Harlow while studying at Memorial University of Newfoundland's Harlow campus. To be eligible, students must have demonstrated financial need, be in good academic standing, and be accepted to study at the Harlow campus. Preference will be given to students enrolled in the Faculty of Education. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean of the Faculty of Education.

The Mary O'Keefe Memorial Scholarships

These scholarships were established with a bequest from Mary O'Keefe. Valued at a portion of the annual interest on the endowment, they will be awarded to two full-time students entering the first year of a program in the Faculty of Education. These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Education.

The Dr. Hugh O'Neill Education Scholarship

This scholarship is the result of a generous donation to Memorial University of Newfoundland by The O'Neill Foundation. One scholarship valued at \$2,500.00 will be awarded annually to a full-time undergraduate student in the Faculty of Education at Memorial University of Newfoundland. In awarding the scholarship, first preference will be given to a student from a third world country but in the event of no such eligible student in a given year the scholarship may be awarded to another education student. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing, financial need and a recommendation from the Dean, Faculty of Education.

The Dr. Herbert Lench Pottle Scholarship

This scholarship has been established by the family of Dr. Pottle who served as a member of the Commission of Government (1947-49) and as the Minister of Public Welfare (1949-55) in the Government of Newfoundland. His career also included educational administration, magistrate, author and member of the first Board of Regents at Memorial University of Newfoundland. Valued at the annual interest on the endowment, this scholarship will be awarded to an undergraduate student in the Faculty of Education. Preference will be given to residents of Newfoundland and Labrador. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and financial need and a recommendation from the Dean, Faculty of Education.

The Dr. Herbert Lench Pottle Scholarship in Education

This scholarship has been established by Helen Louise Wesanko in memory of her father, Dr. Herbert Lench Pottle. Valued at a portion of the income on the investment, the scholarship will be awarded to an undergraduate student in the Faculty of Education with preference given to students who are entering the Faculty. The student must be a native-born Newfoundlander or a graduate of a Newfoundland High School. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Education.

Scott Memorial Scholarship

This scholarship, established by Winslow and Eileen Scott in memory of their late son Bradford, a former student of Memorial University of Newfoundland, is valued at not less than \$500.00. In awarding this scholarship, preference will be given to students in the Bachelor of Education Intermediate/Secondary Program who have completed the Bachelor of Physical Education or Bachelor of Physical Education (Co-operative) degree at Memorial University of Newfoundland. If a suitable candidate cannot be found in this category it will be awarded to a senior student in the Bachelor of Physical Education or Bachelor of Physical Education (Co-operative) program who is doing the teaching option. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and upon a recommendation approved by the Dean, Faculty of Education and/or the Dean, School of Human Kinetics and Recreation.

Ron and Gwen Seary Memorial Scholarship

Two scholarships from the interest on a fund established by the family, colleagues and students of Ron and Gwen Seary shall be awarded. One scholarship shall be given to a student beyond second year who is majoring in English Language and Literature and who is recommended by the Head of the Department. One scholarship shall be awarded to a student in Primary/Elementary Education who shows promise in Art Education and who is recommended by the Dean, Faculty of Education.

The Tony Walsh Scholarship

This scholarship has been established by a donation from James A. Martin in memory of Tony Walsh, teacher 1898-1994. Valued at \$800.00 it will be awarded to a student entering their second year of undergraduate studies in the Faculty of Education. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing with preference given to students who have demonstrated leadership, determination and dedication.

4.5 Faculty of Engineering and Applied Science

The following are available to students in the Faculty of Engineering and Applied Science based on a recommendation from the Dean. For definition of scholarship standing for co-op students, see **Scholarships, Bursaries and Awards, General Information**,

The Afshin Assemi Memorial Award

This award has been established in memory of Afshin Assemi (Term 8 Electrical, 1991) and is valued at a portion of the income on the investment. It will be awarded during the Winter semester and is intended for students enrolled in Term 8 of the Faculty of Engineering and Applied Science Program. The criteria for selection will be on the basis of outstanding contribution to the betterment of student life within the Faculty of Engineering and Applied Science over the course of his/her academic career. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Engineering Scholarship Committee which will accept recommendations from the Engineering Society Executive. The Engineering Society Executive should consult with Term 8 Class representatives before arriving at their decision. If it is decided that two candidates are equally deserving of the Award, then joint awards may be given at equal valued.

Amirix Systems Inc. Scholarship for Computer Engineering

This scholarship, valued at \$2500 annually, is established by AMIRIX Systems Inc. of Halifax, NS, and is awarded to a Computer

Engineering student in Term 5 of the Faculty of Engineering and Applied Science at Memorial University of Newfoundland. The recipient of this scholarship will have demonstrated scholarship standing as well as extracurricular involvement in any of the following areas: athletics, fine arts, student body activities and/or volunteer work. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Engineering and Applied Science.

The American Bureau of Shipping (ABS) Scholarship

The American Bureau of Shipping Scholarship will be awarded to eight full-time undergraduate students who demonstrate scholarship standing and are enrolled in the Faculty of Engineering and Applied Science in any academic terms in the following disciplines: Ocean and Naval Architecture, Civil, Mechanical & Electrical. Preference will be given to students who have strong academics/work experience in the area related to a career in structural; offshore/marine industries. Winners of these scholarships will have preference (upon application) for work term placements with the American Bureau of Shipping in Houston (must be eligible for T-N Visa). Valued at \$5000 each, the scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The C.H. Ballam Scholarship

This scholarship was established by the Honourable Charles H. and Mrs. Ballam as a memorial to their son Ulric, a former Engineering student at the University. The scholarship has a value of \$250.00. It is awarded annually during the Winter semester of Engineering One on the recommendation of the Dean of Engineering and Applied Science. In making the award, academic achievement, character and financial need are taken into account. An application is required.

The E.F. Barnes Scholarship

This scholarship, valued at \$500.00, has been endowed by Stirling Kelloway in honour of the late Mr. E.F. Barnes, founder of E.F. Barnes Machine and Fabricating Shop Limited which built the first all steel vessel in Newfoundland and developed the only marine engine ever built in the Province.

The award will be made each year during the Fall semester to a student in Term 6, on the recommendation of the Dean of Engineering and Applied Science. The selection of the winner will be based on scholastic achievement in Academic Term 5. Financial need will be an additional consideration. This scholarship will not be awarded to a student who is already holding a scholarship during the same academic year.

Paul S. Batstone Memorial Scholarship

This scholarship, valued at a portion of the annual interest, was established in memory of Paul S. Batstone who spent 20 years promoting co-operative education at Memorial University of Newfoundland and was a co-ordinator in the Faculty of Engineering and Applied Science until his death in 2003. Based on scholarship standing, it will be awarded to a senior student completing a spring work term who has demonstrated a high level of commitment to Engineering Co-operative Education and has made a significant contribution to their employer in the past work term. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science with a nomination from the student's employer and input from the Office of Co-operative Education.

Dr. S.M. Blair Memorial Alumni Awards for Excellence in Engineering

Two scholarships, established by the Memorial University of Newfoundland Alumni Association in memory of Dr. Sidney M. Blair, have a value of \$500.00 each and are awarded annually to students entering Term 3 of the Engineering program and Term 5 of the Civil Engineering program who have achieved an appropriate scholarship average in academic courses of the preceding terms. The awards are made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the advice of the Dean of Engineering and Applied Science.

The Ann (Mooney) Bridger/CSCE Newfoundland and Labrador Section Scholarship

The Ann (Mooney) Bridger/CSCE Newfoundland and Labrador Section Scholarship has been established as a result of the 25th anniversary of the Canadian Society for Civil Engineering's Newfoundland and Labrador Section. The scholarship is named after the Faculty of Engineering and Applied Science's first female Civil Engineering graduate, Ann Bridger nee Mooney (B.Eng.1978). Valued at \$500, this scholarship is to be awarded annually on the basis of scholarship standing to a female undergraduate student in Term 3 of the Civil Engineering discipline. The recipient of this scholarship will also be offered a work term at Bridger Design Associates Limited. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Wally J. Campbell Memorial Scholarship

This scholarship has been established in memory of Professor W. J. Campbell who helped establish the engineering program at Memorial University of Newfoundland and taught in the program until 1995 when he retired. The scholarship, one or more, is valued at a minimum of \$500.00 and will be awarded to a student entering term three who has completed all elements of the program prior to Term 3. Scholarship standing, leadership and contribution to student life will be considered in making the award. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Engineering and Applied Science.

The Dr. S.J. Carew Memorial Scholarships

These two scholarships, established in memory of Dr. S.J. Carew, are valued at a portion of the income on the endowment and are awarded annually in the Winter Semester to students in Engineering One of the Bachelor of Engineering program. The scholarships will be awarded on the basis of financial need and scholarship standing with the recipients having achieved at least a strong "B" average in Fall Semester of Engineering One. The scholarships will not be awarded to candidates holding scholarships of equal or greater value. The scholarships are awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on a recommendation from the Dean, Faculty of Engineering and Applied Science.

The CBCL Limited Engineering Scholarship

This non-renewable scholarship, valued at \$1,000, was established by CBCL Limited. Eligible candidates must be full-time undergraduate students in the Faculty of Engineering and Applied Science, in either the Civil, Mechanical or Electrical program. The scholarship will be awarded on the basis of scholarship standing in Academic Term 4. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Chevron Canada Resources Engineering Scholarship

This scholarship, valued at the interest on an endowment to the *Opportunity Fund* by Chevron Canada Resources, will be awarded annually on the basis of scholarship standing to a student during the Winter semester of Engineering One of the Engineering program at Memorial University of Newfoundland. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on a recommendation from the Dean, Faculty of Engineering and Applied Science.

The Dr. Jack Clark Graduate Award

This award was established in memory of Dr. Jack Clark who served as President and Chief Executive Officer of C-CORE from 1984 to 1997. The award will be valued at a portion of the income on the endowment and will be awarded annually. The award is available to any full-time graduate level student in the Faculty of Engineering and Applied Science who meets the minimum academic requirements

for an award as defined by the University. Eligibility will be based on academic standing with preference given to those who have demonstrated financial need by presenting a case with their application. It will be awarded by the Dean of Graduate Studies upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

Stephen Crooks Memorial Scholarship

This scholarship, valued at \$1000.00, has been established in memory of Stephen Crooks (Civil 1982-Memorial University of Newfoundland). It will be awarded to an Engineering student, on the basis of sound scholastic record, who has completed at least five academic terms in Engineering. The student's contribution to the Engineering Faculty and Applied Science and the University, performance during work terms, and overall perseverance within the program will also be taken into consideration. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Engineering and Applied Science.

The Wilfred and Rose Davis Scholarship in Engineering

This scholarship, a gift from Wilfred J. (Memorial University College 1946) and Rose Davis, is awarded annually to a student entering or engaged in Engineering One. The award is valued at the interest earned annually from the endowment and will not be awarded to candidates holding other scholarships of greater value. This scholarship is based on scholarship standing and financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean, Faculty of Engineering and Applied Science.

Det Norske Veritas Scholarship

The Det Norske Veritas Scholarship is donated by the Norwegian Ship Classification Society of that name. The \$500.00 scholarship is awarded to the student in the graduating class in Naval Architectural Engineering who has achieved the highest total marks in terms five to eight inclusive. The award is made solely on academic criteria, and may be held in addition to not more than one other award having monetary value. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Engineering and Applied Science.

Engineering One Entry Scholarships in Engineering

These scholarships are endowed by Mr. Wing Soon Oue of Seven Seas Restaurant, Corner Brook, and have a value of up to \$500.00 each. They are awarded annually to two students entering Engineering One, providing they hold no other awards of greater value. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Dean of Engineering and Applied Science.

The J.M.C. Facey Engineering Scholarship

The scholarship is valued at \$5,000, and is provided via a contribution to Memorial University of Newfoundland by Mr. Darryl Fry. It will be awarded on the basis of scholarship standing to residents of Newfoundland and Labrador enrolled in Engineering One at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, Faculty of Engineering and Applied Science.

Daniel Freeman Memorial Scholarship

This scholarship was established from the contributions of many family members, friends, and fellow students in memory of Danny Freeman, a former Engineering student at Memorial University of Newfoundland. The scholarship, valued at a portion of the accrued interest, will be awarded annually, on a rotating basis, to students enrolled in either Engineering or Mathematics. Preference will be given to candidates with disabilities with consideration given to quality of character and overall perseverance. If a successful candidate is not recommended by the discipline on rotation in a given year an eligible student from the other discipline may be awarded the scholarship for that year. If no candidates are available from the first group any student enrolled in either Engineering or Mathematics (discipline to be determined by the rotation schedule in a given year) will be considered. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering or the Head, Department of Mathematics and Statistics.

The General Motors Scholarship for Women in Engineering

This scholarship is one of several established by General Motors of Canada Limited with contributions to the University's *Opportunity Fund* Campaign. Interest from the fund will provide a scholarship valued at a minimum of \$1,000.00 annually to support and encourage more women to study and work in Engineering, thereby increasing the contributions of women to engineering and scientific endeavours. This scholarship is tenable at Memorial University of Newfoundland to female students regardless of age, with preference to those who are entering the Faculty of Engineering and Applied Science. However, female students already enrolled in Engineering studies may be eligible if in a given year an eligible entering student is not available. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Engineering and Applied Science.

The General Motors Scholarship in Engineering

This scholarship was established by General Motors of Canada Limited with contributions to the University's *Opportunity Fund* Campaign. Interest from the fund will provide a scholarship valued at a minimum of \$1,000.00 annually to support individuals who are first generation students in a family (immediate family) to enroll in Engineering. It will be awarded to a student in any term of the Bachelor of Engineering program at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Engineering and Applied Science.

The John P. Greene Scholarship

This scholarship is funded by Mrs. Amelia Greene to honour her late husband, John P. Greene, a retired engineering instructor at the Fisheries and Marine Institute. The scholarship is awarded to a full-time undergraduate student in the Ocean and Naval Architectural program in the Bachelor of Engineering Degree. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Engineering and Applied Sciences.

The Halliburton Energy Services Scholarship in Mechanical Engineering

This fund, a gift to Memorial University of Newfoundland by Halliburton Energy Services via *The Opportunity Fund* campaign, will provide a scholarship valued at approximately \$1,500.00 annually. It will be awarded on the basis of scholarship standing to a student in academic terms 5 or 6 of the Mechanical Engineering Program at Memorial University of Newfoundland. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Hebron Women in Science and Engineering Scholarship Program

This scholarship was created by a generous contribution from the Hebron Project. Scholarships will be made available to female students who are enrolled full-time or part-time at any campus of Memorial University of Newfoundland, have scholarship standing, and who are majoring in engineering, the geosciences, environmental science or chemistry. Students with financial need will be given preference. Also, where possible at least one Scholarship will be awarded to a student in her first year of study. The Scholarships/Awards will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards (for students at the St. John's

campus; for recipients at the Grenfell campus or Marine Institute, Scholarships/Awards will be awarded by the appropriate body at the respective campus) upon recommendation from the appropriate Dean or Department Head. The Hebron Project co-venturers are ExxonMobil Canada Properties (operator), Chevron Canada, Suncor Energy Inc, Statoil Canada and Nalcor Energy.

The Hibernia Project Scholarship

These scholarships, established by the Hibernia Management and Development Company Ltd. are tenable at Memorial University of Newfoundland and are valued at an amount determined by the annual income on the investment. They are awarded annually as follows:

- Four students entering Term 3 of the Faculty of Engineering and Applied Science with two awarded to male students and two awarded to female students.
- Two students entering Term 3 of the Faculty of Business Administration with one awarded to a male student and one awarded to a female student.

Candidates for these awards must be of scholarship standing but consideration may also be given to their financial circumstances. All candidates must be residents of Newfoundland and Labrador. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Deans, Faculty of Business Administration and Faculty of Engineering and Applied Science.

The Honeywell Limited-Honeywell Limitée Scholarship

This scholarship, the gift of Honeywell Limited-Honeywell Limitée, is valued at the annual interest on the initial endowment. It will be awarded on the basis of scholarship standing to a student in Term 5 of the Mechanical Engineering Program at Memorial University of Newfoundland. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The IEEE Newfoundland and Labrador Section Term 4 Scholarship

This scholarship was established by an endowment from the Newfoundland and Labrador Section of IEEE (The Institute of Electrical and Electronics Engineers). It is valued at a portion of the annual interest accrued on the initial endowment and awarded annually to a full-time undergraduate student in Term 4 of the Electrical and Computer Engineering or Computer Engineering Programs at Memorial University of Newfoundland. The recipient must be an active student member of IEEE and be of scholarship standing as defined by the University. In addition to the student's academic achievement, contributions to the IEEE student branch will be considered. In this regard, candidates must submit a one page letter describing their IEEE involvement, their professional goals and their student activities in the areas of electrical and computer and/or computer engineering. A student may not hold the scholarship more than once. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science, acting on the advice of a special selection committee of the IEEE, Newfoundland and Labrador Section.

The IEEE Scholarship

This scholarship was established by the members of the Newfoundland and Labrador section of IEEE (The Institute of Electrical and Electronics Engineers). This Scholarship has a value of \$1000. It is awarded annually to a full-time undergraduate student in Term 6 of the Electrical and Computer Engineering Program at Memorial University of Newfoundland. The recipient must be a student member of IEEE and possess scholarship standing as defined by the University. In addition to the student's academic achievement, contributions to the IEEE student branch will be considered. This Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science, acting on the advice of the IEEE Newfoundland and Labrador Section.

The Integrated Informatics Award of Excellence

This award is established through a generous gift from Jason and Christa Humber, and will provide one award annually, valued at a portion of the income from the endowment. To be eligible, students must be senior engineering students enrolled in their final undergraduate year (Term 8) in the Offshore Oil and Gas option of the Faculty of Engineering & Applied Science at Memorial University of Newfoundland. The award will be given to a student who has achieved the highest total marks in offshore oil and gas courses in terms 6 and 7. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Dean, Faculty of Engineering & Applied Science.

The Kiewit Offshore Services Award

These awards, valued at \$1000 each for two students are offered annually by Kiewit Offshore Services (KOS). Each award also includes the possibility for the recipient to complete one or more work terms with this well-renowned general contracting company. The eligible candidates should have completed, as a minimum, their Term 4 in Naval, Civil, Mechanical or Electrical Engineering with good scholarship standing and have demonstrated a strong interest to work in the construction industry during their previous work terms, preferably with the Kiewit Group. Factors to be taken into account include character qualities, team spirit, personal initiative, leadership, reliability and mobility. Financial need may also be a consideration. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Engineering and Applied Sciences with the appropriate input from the Chairpersons and Faculty acting on the advice of a special selection committee of the Kiewit Group.

The Peter Kiewit Sons Co. Ltd. Award

These awards, valued at \$1000 each for two students are offered annually by Peter Kiewit Sons Co. (PKS). Each award also includes the possibility for the recipient to complete one or more work terms with this well-renowned general contracting company. The eligible candidates should have completed, as a minimum, their Term 4 in Civil, Mechanical or Electrical Engineering with good scholarship standing and have demonstrated a strong interest to work in the construction industry during their previous work terms, preferably with the Kiewit Group. Factors to be taken into account include character qualities, team spirit, personal initiative, leadership, reliability and mobility. Financial need may also be a consideration. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Engineering and Applied Sciences with the appropriate input from the Chairpersons and Faculty acting on the advice of a special selection committee of the Kiewit Group.

The Gene H. Kruger Memorial Scholarship

These scholarships are the result of a generous donation by Joseph Kruger II in memory of his father, Gene H. Kruger. Valued at a portion of the income on the investment, they will be awarded to two students in the Faculty of Engineering and Applied Science who were born and have lived in Newfoundland all of their life. Particular emphasis should be given to those who are studying Mechanical and Electrical Engineering as well as those studying information technologies. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and financial need on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Wallace Allison MacCallum Memorial Scholarship

This scholarship valued at the annual interest, was established by the MacCallum family in honour of their father, Wallace. It will be awarded to a third or fourth year Engineering student at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the

Dean, Faculty of Engineering and Applied Science. Factors such as, interest in the humanities and international affairs, marine technology, contribution to his/her engineering class, and athletic involvement may also be taken into consideration.

The John Madvig Bursary

This bursary will be awarded annually to a student in the Faculty of Engineering and Applied Science who is studying in the Naval Architectural Engineering program at Memorial University of Newfoundland. The value of the bursary will be based on the annual interest earned on the initial endowment. It will be awarded to a Canadian citizen on the basis of academic standing and financial need. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean of Engineering and Applied Science.

The Effie and Leander Mercer Scholarship

The scholarship was established by Dr. Jean Mercer in honour of her parents, Effie and Leander Mercer. Valued at the annual interest on the endowment, an award will be made alternately to a third year student in Medicine, Engineering and Post-Secondary Education (formerly Vocational Education). In any given year, if no student is eligible in the designated faculty it may be awarded to a student in one of the other two faculties. The successful student must have done most of his/her studies as a mature student. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation of the respective Dean. Financial need must also be taken into account.

The Professor Bill Milne Memorial Scholarship

The scholarship is established in memory of Professor William (Bill) Milne, the founder of the program now known as Ocean and Naval Architectural Engineering. This scholarship, valued at a portion of the income from the endowment, is the result of contributions by Ruth Milne and Prof. Milne's former students and colleagues. The scholarship recipients will be full-time undergraduate students enrolled in Term 4 of the Ocean and Naval Architectural Engineering program. Candidates must have maintained scholarship standing in Terms 1 to 3, and have demonstrated involvement in formal professional associations, such as the Society of Naval Architects and Marine Engineers. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, Faculty of Engineering & Applied Science.

NACE International (Atlantic Canada Section) Prize

This prize has been established by the National Association of Corrosion Engineers and is valued initially at \$500.00 annually. It will be awarded to an Electrical or Mechanical Engineering student in Academic Term 5 in the engineering program at Memorial University of Newfoundland. The successful candidate must have demonstrated excellence in Engineering 3911 - Chemistry and Physics of Engineering Materials I. In addition, preference will be given to students who have completed and excelled in at least one work term related to corrosion engineering or has carried out a laboratory experiment or has performed research in corrosion and/or corrosion mitigation. The prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Engineering and Applied Science in consultation with the Atlantic Canada Section of NACE International. The successful candidate will be encouraged to join NACE International as a student member to encourage his or her interest in corrosion mitigation.

Nalcor Energy Women in Engineering Scholarship

The Nalcor Energy Women in Engineering Scholarship is endowed through a gift from Nalcor Energy. Valued at a portion of the income on the endowment and based on scholarship standing this scholarship will be awarded to a full-time undergraduate female student who graduated high school in Newfoundland and Labrador and is enrolled in the Engineering and Applied Science Program at the Academic Term 4 level. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon recommendation of the Dean, Faculty of Engineering and Applied Science.

The Newfoundland and Labrador Hydro Corporation Scholarships in Engineering and Applied Science

Five scholarships are offered annually by the Newfoundland and Labrador Hydro Corporation and are valued at \$1,000.00 each. They are distributed as follows:

- two to students enrolled in the Fall semester of Engineering One based on previous scholastic achievement
- two to students enrolled in the Winter semester of Engineering One based on that term's results
- one to a student enrolled in Term 8 based on the cumulative average in Engineering.

The Scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of Engineering and Applied Science. Need may be considered. The awards will not be made to students who hold other concurrent scholarships of significant value.

The Newfoundland and Labrador Federation of Municipalities Civil Engineering Scholarship

This scholarship, the gift of the Newfoundland and Labrador Federation of Municipalities, is valued at \$500.00. It will be awarded annually to a Civil Engineering student at Memorial University of Newfoundland. Financial need and other factors may also be taken into account. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Engineering and Applied Science.

The Newfoundland Design Associates Limited Scholarship in Engineering

This fund donated to Memorial University of Newfoundland via *The Opportunity Fund* by Newfoundland Design Associates Limited, will provide a scholarship for a full time undergraduate student in academic Term 2 of the Engineering Program. The scholarship, valued at the annual interest on the initial endowment, is based on scholarship standing and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science.

The Newfoundland Road Builders/Heavy Civil Association Scholarship

This scholarship has been established by the Newfoundland and Labrador Road Builders/Heavy Civil Association and is valued at \$1,000.00 annually. It will be awarded to a Civil Engineering student who has achieved scholarship standing and is in Term 6 of their program. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Engineering and Applied Science.

Professor Calvin Noble Memorial Award

The award, valued at \$1,000.00, will be given annually to an undergraduate student in any year of the Faculty of Engineering and Applied Science. The recipient must be in clear academic standing and must have made a significant contribution to the Faculty of Engineering and/or to university life as a whole during his/her studies at Memorial University of Newfoundland. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Noranda Scholarship

This scholarship valued at the annual interest, has been established by the Noranda Foundation as part of the Opportunity Fund campaign. It will be awarded on an annually rotating basis between students in Earth Sciences and Engineering and Applied Science. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean/Department Head of the appropriate discipline.

The William O'Reilly Memorial Scholarship

This scholarship established in memory of William O'Reilly (Engineering Class '76), has a value of \$500.00, and is awarded annually to a student in Term 5 or Term 8 of the Engineering program. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean of Engineering and Applied Science in consultation with a representative of the Engineering Class of '76. Economic need will be the major consideration but the candidate will be required to have at least a "B" average in the previous semester. The scholarship will not be awarded to a candidate holding a scholarship of equal or greater value.

Oil and Gas Week Scholarship

Valued at \$1,000 each, these undergraduate scholarships are established by a gift over three years from the organizers of Oil and Gas Week, a program of events held annually in St. John's, NL for the purpose of promoting the oil and gas industry. Two scholarships will be awarded each year. To be eligible, students must be enrolled full-time beyond the first year of an undergraduate program in the Department of Earth Sciences, the Faculty of Engineering and Applied Science, or the Faculty of Business Administration. Eligible candidates must also have scholarship standing and preference will be given to students who graduated from a high school in Newfoundland and Labrador outside of the metropolitan St. John's area. Each year the two recipients must be from different faculties, with each identified academic unit to be represented no more than twice in the three year period of the term of the fund. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on a recommendation from the appropriate academic discipline.

Fritz Potter Memorial Award

This award has been established in memory of Fritz Potter (Civil Engineering Graduate, 1991) and is valued at \$500.00. It will be awarded during the Winter semester and is intended for students enrolled in Term 8 of the Civil Engineering program. The criteria for selection will be on the basis of outstanding contribution to the spirit of the Civil Engineering graduating class over the course of their studies at Memorial University of Newfoundland. It will be administered by the Engineering Scholarship Committee which will accept recommendations from the Engineering Society Executive. The Engineering Society Executive should consult with Term 8 Civil Engineering class before arriving at their decision. If it is decided that two candidates are equally deserving of the award, then joint awards may be given valued at \$250.00 each. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based upon a recommendation from the Faculty of Engineering.

The Professional Engineers and Geoscientists Newfoundland and Labrador Engineering Scholarships

Two scholarships, the gifts of the Professional Engineers and Geoscientists Newfoundland and Labrador, are awarded annually to students entering the Engineering program. The awards are valued at \$1,000.00 each and will not be awarded to candidates holding other scholarships of greater value. One of the scholarships will be awarded on the basis of scholastic achievement and financial need; the other primarily on the basis of scholastic achievement. These scholarships will be awarded by a committee of the Professional Engineers and Geoscientists Newfoundland and Labrador. Further information regarding application forms, etc., is available from the Dean of Engineering and Applied Science.

The Professional Engineers and Geoscientists Newfoundland and Labrador Past President's Engineering Scholarship

This scholarship, valued at a minimum of \$1,000.00, was established by the Professional Engineers and Geoscientists Newfoundland and Labrador to mark the centennial year of Engineering as an organized profession in Canada. It is awarded annually on the basis of scholastic achievement to a student entering the Fall semester of Engineering One of the Engineering program at Memorial University of Newfoundland. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, in consultation with the Dean of Engineering and PEGNL.

The S.P. Raheja Memorial Scholarship

This scholarship, valued at a portion of the income from the endowment, was established through generous gifts from the friends and family members of S. P. Raheja. It is to be presented during National Co-operative Education Week and will rotate annually between the Faculty of Engineering and Applied Sciences and the Faculty of Business Administration. To be eligible, students must be in scholarship standing, and be enrolled in the co-operative program, having successfully completed work term four in Engineering or work term two in Business in the previous scholarship year. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Director of the Division of Co-operative Education.

The Charlie Riggs and Cathy MacDonald Riggs Memorial Award

This award has been established in memory of Charlie Riggs (Bachelor of Engineering- Mechanical, 1988) and Cathy Macdonald Riggs (Bachelor of Science – Psychology, 1984) by AMEC Earth & Environmental (a division of AMEC Americas Limited). The award will be valued at a portion of the income on the endowment and will be awarded annually on a rotating basis between the Faculty of Engineering and Applied Science and the Department of Psychology. Recipients from Engineering can be enrolled in any year of the undergraduate program. Preference will be given to students involved in environmental organizations such as the Newfoundland Environmental Industry Association (NEIA) or environmental initiatives supported by the Professional Engineers and Geoscientists Newfoundland and Labrador (PEGNL). Recipients from Psychology must be undergraduate students majoring in Behavioural Neuroscience and beyond their second year of study. They may demonstrate an interest in the psychology or physiology of communication. The students must meet the minimum academic requirements for an award as defined by the university. The award will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science and the Head of Psychology, Faculty of Science, respectively.

Rutter Engineering and Automation Inc. Scholarship in Engineering

This scholarship, valued at the annual interest on the endowment, will be awarded annually to a student in Term 4 of the Electrical Engineering program at Memorial University of Newfoundland. Candidates for this scholarship must be of scholarship standing but consideration may also be given to their financial circumstances. All candidates must be residents of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a period of 12 months immediately prior to enrollment for the term of study). The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Sandwell Engineering Inc. Scholarship

This scholarship, valued at the annual interest on their initial endowment, was established by Sandwell Engineering Inc. and is awarded annually to a student in the Winter semester of Engineering One of the Bachelor of Engineering program at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Engineering and Applied Science.

The Schlumberger Canada Limited Scholarships

These ten scholarships, valued at \$2,000.00 each, are generously funded by Schlumberger Canada Limited. They will be available to students who are enrolled in academic years 2 to 4 of the Bachelor of Engineering program at Memorial University of Newfoundland and who are women, have Aboriginal status, a disability, or who represent a visible minority. Students with a disability should provide supporting documentation (from a medical doctor, psychologist, audiologist, rehabilitation counselor, or other professional who has specific training, expertise, and experience in the diagnosis of this condition). Student will claim visible minority status through self-identification. The scholarship will be awarded on the basis of scholarship standing with a passing grade in all required courses, to

residents of Newfoundland and Labrador (a person who has maintained permanent residence in the province for a minimum of twelve months prior to entering academic term one in the program). They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Shell Canada Engineering Scholarship

This fund a gift to Memorial University of Newfoundland by Shell Canada via *The Opportunity Fund* campaign, will provide three scholarships valued at approximately \$1,500.00 each annually. They will be awarded on the basis of scholarship standing to students in academic terms 5, 6, 7 or 8 of the Mechanical Engineering Program at Memorial University of Newfoundland. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Charlie Sheppard Memorial - Hatch Scholarship

The Charlie Sheppard Memorial - Hatch Scholarship, valued at a portion of the income on the endowment, has been established by Hatch, in memory of Charlie Sheppard. The scholarship will be awarded to two full-time undergraduate students in the Faculty of Engineering and Applied Science who are in the Winter semester of Engineering One and have scholarship standing. All other criteria being equal, preference will be given to a student from a rural community in Newfoundland and Labrador. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

Structural Design Inc. Scholarship in Engineering

This scholarship is the result of a commitment to *The Opportunity Fund* by Structural Design Inc. It will provide one scholarship of \$500 to full-time students in Term 7 specializing in Structural Engineering. The scholarship, based on scholarship standing, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science. In the case of a tie between two students, need may be a determining factor.

The Sun Life Financial Scholarship in Applications of Technology

The Sun Life Financial Scholarship in Applications of Technology is consistent with the company's belief that education is key to the future well-being of individuals, business and society. The scholarship, valued at the annual interest on the endowment, will be designated on an annually rotating basis to a student on the Corner Brook campus and the St. John's campus. It will be awarded to a student within the faculties of Science, Engineering and Applied Science and Business Administration who is focussing his/her studies on the application of technology and has demonstrated scholarship standing. In addition, the student will have actively participated in extra-curricular activities and have been active in student life. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the appropriate Dean and/or the Vice-President of Grenfell Campus.

The Sun Microsystems of Canada Scholarship

This fund, donated to Memorial University of Newfoundland via *The Opportunity Fund* by Sun Microsystems of Canada, will provide a scholarship for a full-time undergraduate student in Academic Term 5 of the Computer Engineering program. The scholarship, valued at the annual interest on the endowment, is based on scholarship standing and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science.

The David S. Templeton Scholarship

This scholarship is the gift of Newfoundland Power Inc. The exact value is reviewed on an annual basis and is currently set at \$2,000.00. It is awarded annually to a student entering Term 4 who has completed all components of the program up to Term 4. Academic excellence is a major criterion but should be coupled with exemplary work term results. In addition, the candidate should have strong interpersonal and communications skills as well as good understanding of the needs and aspirations of their fellow citizens and a desire to use engineering as a vehicle to make our world a better place. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, Faculty of Engineering and Applied Science in consultation with the President of the Company. No application is required.

The Charles O. Thomas Scholarship

This scholarship is a gift of The Thomas Fuller Construction Company (1958) Limited, in memory of Mr. Charles O. Thomas, who was supervisor of construction of the National Research Council Institute for Marine Dynamics on this campus, 1982-85. The value of the award will be based upon the interest accrued on the principal sum donated, up to the amount of \$750.00. The award is made to the student in the Faculty of Engineering and Applied Science who obtains the highest overall average in Terms 3, 4, and 5 and who does not already hold a scholarship administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards in that same academic year. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean of Engineering and Applied Science.

Bob Thorburn Memorial Scholarship

The Bob Thorburn Memorial Scholarship was initially established at Memorial University of Newfoundland during the *Opportunity Fund* through a gift from Quadrate Inc., and recently fully endowed by Quadrate Inc. This fund will provide a scholarship for a full-time undergraduate student in Academic Term 4 of the Engineering Program in either the Electrical and Computer or the Mechanical Engineering disciplines. The scholarship, valued at the annual interest on the endowment, is based on scholarship standing. Students demonstrating financial need may also be considered. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science.

The Tiller Engineering Incorporated/CSCE Newfoundland and Labrador Section Scholarship

The Tiller Engineering Incorporated/CSCE Newfoundland and Labrador Section Scholarship has been established as a result of the 25th anniversary of the Canadian Society for Civil Engineering's Newfoundland and Labrador Section. Tiller Engineering Inc. was founded in 2001 by Faculty of Engineering and Applied Science alumni Richard W. Tiller, M. Eng, B.Eng, P.H. - Class of 1988. The firm is renowned for its commitment to quality and solid record of excellence in the telecommunications, buildings, and energy industries throughout North America. Mr. Tiller is a long-time member of the CSCE and his engineering firm is also an Affiliate Corporate Member of the Society. Valued at \$500, this scholarship is to be awarded annually on the basis of scholarship standing to an undergraduate student in Term 3 of the Civil Engineering discipline. The recipient of this scholarship may be offered a work term at Tiller Engineering Incorporated. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon recommendation of the Dean, Faculty of Engineering and Applied Science.

The Toromont Scholarship

This scholarship, valued at the annual interest on the endowment, has been established by Toromont Industries Ltd. as part of the *Opportunity Fund Campaign*. It will be awarded on an annually rotating basis between students in Business Administration and Engineering and Applied Science. It will be awarded on the basis of scholarship standing, extracurricular activities, and need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean of the appropriate discipline.

Vale Scholarships in Process Engineering

These eight scholarships, valued at \$1,000.00 each, are generously funded by Vale. They will be available to students who are enrolled in academic years 2 to 4 of the Bachelor of Engineering program, majoring in process Engineering at Memorial University of Newfoundland. Students must have scholarship standing and be residents of Newfoundland and Labrador (a person who has maintained permanent residence in the Province for a minimum of twelve months immediately prior to entering academic term one of the program). They will be awarded as follows: two in term three (one male and one female), two in term four (one male and one female), and one each for terms five through eight. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Jacques Whitford Newfoundland Geoscience Scholarship

This scholarship, valued at the annual interest on their endowment, has been established by Jacques Whitford Environment Limited and Newfoundland Geosciences Limited as a contribution to the *Opportunity Fund Campaign*. It will be awarded on an annually rotating basis to students in the Faculty of Engineering and Applied Science (particularly Civil Engineering), the Faculty of Science (particularly Biological Sciences) and Archaeology. Successful candidates are to be of scholarship standing and preferably show an interest in environmental issues. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean/Director/Department Head of the appropriate discipline.

Women in Engineering Memorial Scholarship

This scholarship has been established to commemorate the sudden and tragic deaths of fourteen women at L'Ecole Polytechnique in Montreal on December 6, 1989. Thirteen of the women who died so violently were pursuing studies in engineering, historically a non-traditional field for women. It is hoped this annual \$2,500.00 scholarship will encourage more women to study and work in this profession, thereby increasing the contribution of women to engineering and scientific endeavours. Funding support is provided by the Faculty of Engineering & Applied Science, C-CORE, Memorial University of Newfoundland Alumni Association and individual contributions. This award is tenable at Memorial University of Newfoundland to female students regardless of age, who are entering the Faculty of Engineering and Applied Science. To be eligible, applicants must demonstrate a commitment to the advancement of women in Engineering fields and an active involvement in wider issues of social concern to women, as well as sound scholastic ability. The committee may also consider applications from female students already enrolled in Engineering studies, provided they meet the eligibility criteria above. A special committee, consisting of representatives from the Faculty of Engineering and Applied Science, C-CORE, Memorial University of Newfoundland's Alumni Association, Gender Studies and Women in Science and Engineering meets annually to consider applications for this scholarship. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of this committee.

Dr. James A. Wright Memorial Scholarship

One annually funded scholarship is established by a gift from Leprechaun Resources Ltd. in memory of Dr. James A. Wright, former professor in the Department of Earth Sciences. The scholarship, valued at \$1,000, is available to full-time undergraduate students in their second year of study at Memorial University of Newfoundland with a preference for students enrolling at the Grenfell Campus. To be eligible, students must meet the minimum academic requirements for a scholarship and must have graduated from a high school on the West Coast of Newfoundland, as defined by the University. Preference will be given to students pursuing any area of study within the Faculty of Science or the Faculty of Engineering and Applied Science. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Howell Zygocki Scholarship for Women in Engineering

This scholarship was established by Rhonda I. Zygocki in the name of her family. Rhonda graduated from Memorial University of Newfoundland in 1980 with a degree in Civil Engineering and was among the University's early female engineering graduates. This scholarship is valued at a portion of the income from the endowment and will be awarded annually. The recipient will be a second year female student in the Faculty of Engineering and Applied Science. Preference will be given to a student who has demonstrated financial need. The recipient must meet the minimum academic requirements for a scholarship as defined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Engineering and Applied Science.

4.6 Faculty of Medicine

The following are available to students in the Faculty of Medicine based on a recommendation from the Dean.

The Dr. Brian Gerard Adams Memorial Bursary Fund

This bursary has been established by the friends and family of Dr. Brian Gerard Adams, in his memory. The bursary, valued at \$500.00, is available by application on the completion of second year medical studies. The recipient must be in good academic standing and demonstrate financial need. The bursary is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Alcohol and Drug Dependency Commission Commemorative Awards

These awards have been established to commemorate the Alcohol and Drug Dependency Commission (1982-1992). In an effort to promote the pursuit of addiction studies in various disciplines, it is hoped that recipients will pursue careers in addiction-related fields. Up to three awards, valued at \$750.00 each, are available annually and open to students who have completed a major or published paper at the undergraduate or graduate level or are completing an Honours Dissertation on addiction issues. It will be awarded on a rotating basis to students in Pharmacy, Nursing, Medicine, and Social Work with a Faculty or School receiving only one award in any given scholarship year. These awards will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean/Director/Head of the respective Faculty or School.

Amgen Canada Memorial University Family Medicine Scholarship

These scholarships, five annually, are established through a generous contribution by Amgen Canada Inc and valued at \$1,000 each. Amgen Canada Inc established these scholarships to provide support for medical students who are planning a career in Family Medicine. To be eligible, candidates must be full-time medical students in their graduating year who have been accepted into the Family Medicine Residency Program at Memorial University of Newfoundland. The Scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine.

The Dr. Andrew Bagby and Son Zachary Andrew Memorial Bursary

This endowed bursary was initiated in memory of Dr. Andrew Bagby and his son Zachary by David and Kathleen Bagby, parents of Andrew. The recipient must have an engaging demeanor and must relate with ease to people at all levels, as this was a unique characteristic of Dr. Bagby. The bursary will be awarded annually to the Memorial University of Newfoundland medical student who, in addition to demonstrated financial need, best demonstrates the qualities Andrew embodied: a positive, caring attitude, a sense of camaraderie, passion for life, supportive of others with a genuine concern for, and a desire to, impact positively on the lives of his/her classmates. To be eligible students must be in their third year of medical studies or beyond, and in good academic standing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine. The Office of Student Affairs, Medicine will assist the Dean in his or her choice of

the appropriate candidate.

The Erika Bartlett Memorial Bursary

This bursary is the result of an endowment to the University funded by donations from family and friends of the Bartlett family, as well as students, staff and faculty members of the Faculty of Medicine. This bursary is valued at a portion of the annual accrued interest on the endowment and is available to a staff member and a medical student in alternate years. The Erika Bartlett Bursary is administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards and awarded on the basis of a recommendation from the Dean, Faculty of Medicine. Applications are available at the Office of Student Affairs, Faculty of Medicine.

Selection Criteria Staff Member

To be eligible a candidate must:

1. Complete the appropriate application form,
2. Be employed full-time with the Faculty of Medicine,
3. Use the bursary to fund study at the undergraduate level,
4. Submit a grade to the selection committee upon completion of the course.

Selection Criteria Medical Student

To be eligible a student must:

1. Be registered in the fourth year of medical studies.
2. Be matched to a postgraduate program in Oncology (Medicine/Surgery/Radiology). If a student is not matched to an Oncology program then the recipient will be chosen at the discretion of the selection committee.

The Donald Cant Studentship

The annual Donald Cant Studentship, valued at \$750.00, is for researching and writing an original essay, suitable for publication, on some aspect of the History of Medicine. The studentship is open to any student enrolled in the M.D. program, Faculty of Medicine, Memorial University of Newfoundland. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the decision of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships on the basis of a proposal to be submitted by January 31 of each year.

Central Regional Integrated Health Authority and Dr. J.F. Brown Bursary

Each year an award is made available to students from the former Central West Board. The annual income shall be awarded as a bursary to a student of any year from the former Central West area who demonstrates the greatest need and who, in the opinion of the Dean, has achieved adequate academic performance. Should for any reason a bursary not be awarded, the entire amount is to be returned to the fund, and the award made the following year in the usual manner. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the decision of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships. Applications may be submitted in September of each year.

The Dr. Sharon Coffey Memorial Bursary

This bursary has been established in memory of Dr. Sharon Coffey, graduate of Memorial University of Newfoundland's Faculty of medicine, Class of 1982. Valued at a portion of the income on the endowment, the bursary will be awarded annually to a student entering their first year of Undergraduate Medical Education at the Faculty of Medicine, who graduated from a high school in Newfoundland and Labrador, and who is in financial need. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Peter and Mrs. Deborah Collingwood Scholarship in Medicine

The Dr. Peter and Mrs. Deborah Collingwood Scholarship in Medicine has been established through a generous gift from Dr. Peter and Mrs. Deborah (Templeton) Collingwood. Valued at a portion of the income on the investment, the scholarship will be awarded to students who are citizens of Canada and residents of Newfoundland and Labrador, who are entering their first year of the M.D. program in the Faculty of Medicine and meet the criteria of scholarship standing as defined by the Faculty of Medicine. They are renewable for one year provided the candidates maintain scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, Faculty of Medicine.

Cooze Keinath Scholarship

This scholarship, valued at \$1,000.00 is established by Dr. Derek Cooze, a graduate of the Faculty of Medicine, Class of '85 and his spouse, Dr. Kim Keinath. It will be awarded annually to a student in the Faculty of Medicine. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and the recommendation of the Dean, Faculty of Medicine.

The Christopher & Donna Cox Scholarship

This scholarship, established through a generous contribution by Dr. Donna Hardy Cox and Dr. Christopher Cox, is valued at \$500 per annum. Drs. Donna Hardy Cox and Christopher Cox, both alumni of Memorial University of Newfoundland, have established this scholarship in gratitude for their well-rounded student life and academic experiences. To be eligible, candidates must be full-time undergraduate students. The scholarship will be awarded annually on a rotating basis between the School of Social Work and the Faculty of Medicine, beginning with the latter. In Medicine, the Scholarship will be awarded to a graduating M.D. student who has a strong academic record and who has expressed an interest in specializing in Oncology. In the School of Social Work it will be awarded to a graduating B.S.W. student who is in scholarship standing and who has made the greatest contribution to student and community leadership. The Scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on the recommendation of the Dean/Director of the appropriate discipline.

The Dr. John M. Darte Memorial Fund (Medicine)

This fund, in memory of the first Professor and Chairman of Pediatrics at Memorial University of Newfoundland's Faculty of Medicine (1968-75), has been established by Mrs. J.M. Darte and Mrs. France Darte McCabe. With the income from this fund, up to four awards will be made annually with a value of \$650.00 each. To be considered for an award from this fund, a student must be in good academic standing but other factors, such as financial need, will be considered. The selection will be made in accordance with prevailing policies of the Faculty of Medicine and the University.

The Walter Davis Award

This award was established by the Newfoundland Lung Association to honour the work of Mr. Walter Davis in the field of chest diseases particularly, tuberculosis. The recipient will be the student in the Faculty of Medicine who achieves the best performance in the first year respirology course. It will be valued at \$500.00 annually and awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Ralph John Day Award

This award is available to a student in the pre-clerkship program who completes the best undergraduate project in bowel or liver cancer, including other metastatic disease. This award is a result of a donation from Mrs. Jean Day in memory of her late husband, Dr. Ralph John Day. The value of the award will be determined by the annual income derived from the initial endowment. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Medicine.

The Hunter W. Earle Memorial Scholarships in Medicine

These scholarships have been made possible from the proceeds of a memorial fund established by colleagues of the late Dr. Hunter W. Earle and a generous donation from Mrs. Marilyn Pasternak, widow of Dr. Earle. Two scholarships will be made available annually to students enrolled in the Faculty of Medicine at Memorial University of Newfoundland, who best exemplify the characteristics of leadership, sportsmanship and interest in student activities and who have maintained a good academic standard. The scholarships, valued at a portion of the annual income on the endowment, will be awarded to students who have completed the Clinical Clerkship and will be presented at the Annual Convocation Dinner in May. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Harry W. Edstrom Scholarship in Medicine

Family, friends and colleagues of the late Dr. Harry W. Edstrom have established this scholarship in his memory. Dr. Edstrom was a professor of Medicine (respirology) at Memorial University of Newfoundland who is recognized for his lifetime contributions to teaching and leadership in the medical profession. He was also Clinical Chief of Medicine at Eastern Health; Past-President of the Newfoundland and Labrador Medical Association; Past Governor of the American College of Physicians; Past Executive of the Canadian Medical Association and Recipient of the 2002 Queen's Jubilee Medal. The scholarship will be awarded annually to a medical student who has completed the Clerkship component of the M.D. program, has a strong academic record and who demonstrates leadership during medical studies. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on the recommendation of the Dean, Faculty of Medicine.

The Isidor Epstein Memorial Scholarship

This scholarship is awarded out of income derived from a bequest to Memorial University of Newfoundland by the late Mrs. Bella Levkovitz. From this income a scholarship of not less than \$700.00 is to be awarded as often as possible to an outstanding second, third, or fourth year student in the Faculty of Medicine. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Medicine.

The Faculty of Medicine Opportunity Fund Scholarship

This scholarship is the result of an endowment created from several general donations to the *Opportunity Fund* by various alumni and friends of the University and in particular of the medical school. Valued at the annual interest on the endowment, it will be awarded annually to a medical student in the first year of study at Memorial University of Newfoundland on the basis of scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Medicine.

The Frank & Pat Fagan Family Scholarship for Academic Excellence and Community Leadership

This scholarship has been established through a generous donation by Frank and Pat Fagan. Frank, Pat and their two sons, Andrew and Richard are graduates of Memorial University of Newfoundland. Frank and Pat have spent their lives involved in community activities to enhance the lives of the people of the province of Newfoundland and Labrador. As a family, they believe strongly in the importance of education as well as community involvement and volunteerism. The Fagan family wants to express their gratitude for the quality of education they all attained at Memorial University of Newfoundland and the opportunities this has afforded them.

This prestigious scholarship will be awarded annually to an academically outstanding (top 10 in the class) student who has completed the Preclerkship component of the M.D. program and who demonstrates a significant record of community leadership, prior to entry or during the medical program. Only residents of the province of Newfoundland and Labrador are eligible to apply. The scholarship will be paid out to the recipient in two installments, one after completion of second year and one during the third year of medical studies. The recipient will be known as the 'Fagan Family Scholar'. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean, Faculty of Medicine, and based on an application to be submitted by January 31 of the second year of medical studies. The Office of Student Affairs, Medicine will receive applications and assist the Dean with the selection.

The Dr. Bruce A. Fraser Award for Clerkship Electives

This award is made possible by a bequest from the estate of Dr. Bruce A. Fraser who was a professor of Anatomy in the Faculty of Medicine at Memorial University of Newfoundland from 1979-1992. The award, valued at a portion of the income from the endowment, is available to two or three medical students doing Clerkship electives in the United Kingdom and/or Ireland. If no students are completing electives in the United Kingdom or Ireland in a given year, consideration will be given to providing the award for completion of other International electives. Deadline for submission of applications is June 30th in the given year. Selection will be made on the basis of scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Medicine.

The Dr. Henry Gault Memorial Scholarship

Friends and colleagues of the late Dr. Henry Gault have established this scholarship in his memory. Dr. Gault had an international reputation in nephrology research, and was instrumental in building a strong program of clinical and research nephrology at the General Hospital and the Faculty of Medicine. Valued at a portion of the income on the investment, one or more, scholarships will be awarded at the end of the fourth year of undergraduate medical studies to a student who has demonstrated both interest in clinical research and academic excellence within Internal Medicine. Applications are available from the Student Affairs Office, Faculty of Medicine. Deadline for submission is January 31st. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Peter Grant Memorial Scholarship

This scholarship, valued at a portion of the income from the endowment, has been established through generous gifts from the classmates, friends and family of Dr. Peter Grant, Medicine class of 1994, to honor his enduring spirit. The scholarship will be awarded annually, based on scholarship standing and financial need, to a second year medical student who has contributed greatly to the class spirit. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries, and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine. The Office of Student Affairs, Medicine will assist the Dean in his or her choice of an appropriate candidate.

The Dr. David G. Greenland Memorial Bursary in Family Medicine

This bursary, established through a generous contribution from Heather Greenland in memory of her late husband, Dr. David G. Greenland, is valued at \$2,500 per annum. Dr. Greenland loved to mentor new doctors and was heavily involved in continuing medical education in Grand Falls, NL for many years prior to passing away in 2005. The bursary will be awarded to a full-time undergraduate student in the Faculty of Medicine with demonstrated financial need and in good academic standing. To be eligible, students must be in

their third year of study or beyond and have demonstrated dedication to the practice of family medicine by indicating the intention to go into Family Medicine residency. Preference will be given to students from central Newfoundland as defined by the University. The bursary is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Medicine.

The Keith Griffiths Memorial Heart and Stroke Foundation Graduate Scholarship

This scholarship, established through a generous contribution by the Griffiths family, in partnership with the Heart and Stroke Foundation of Newfoundland and Labrador, is valued at \$1000 per annum. The Griffiths family has established this scholarship in memory of their father, Keith Griffiths, a stroke survivor and dedicated volunteer. The scholarship will be awarded to a full-time graduate level student in the Faculty of Medicine, who is pursuing a research program in stroke or neurological issues related to stroke. Candidates must apply in writing, providing a statement of eligibility, as well as details of their area of research, and progress. The award will be made by the Dean of Graduate Studies on the recommendation of a committee including the Assistant Dean, Graduate Studies (Medicine) and the Graduate Program Coordinators (Medicine).

The Dr. Wulf Grobin Memorial Scholarship in Medicine

This scholarship has been established by Ida Parsons in memory of Dr. Grobin, a compassionate physician and humanitarian. Dr. Grobin was born in Latvia and studied in Switzerland, England and Scotland before moving to Newfoundland. He practised medicine in Brooklyn, Bonavista Bay from 1938-1943 and St. John's from 1945-1958 when he moved with his family to Toronto. There he continued his medical career in the area of diabetes and the elderly. He had many varied interesting medical and personal experiences as an outdoor doctor, and developed a great warmth and affection for Newfoundland and Newfoundlanders, which lasted until his death in March of 2001. Valued at the accrued interest on the initial endowment and based on academics and financial need, the scholarship will be available to a student at the end of their first year in the Faculty of Medicine. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Abdalla M. Hanna Memorial Bursary in Medicine

Named in memory of Dr. Abdalla M. Hanna, a well known surgeon in St. John's, this bursary is awarded to a student entering first year studies in the Faculty of Medicine who is a resident of Newfoundland and Labrador and who is in financial need. Valued at a portion of the income on the endowment, the bursary is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine.

The Heart and Stroke Foundation Graduate Scholarship

This scholarship, established through a generous contribution by the Heart and Stroke Foundation of Newfoundland and Labrador, is valued at \$1000 per annum. The scholarship will be awarded to a full-time graduate level student in the Faculty of Medicine, who is pursuing a research program related to heart health or heart disease. Candidates must apply in writing, providing a statement of their research, supported by a reference letter from the applicant's supervisor verifying the area of research and progress to date. Consideration will also be given to the student's course work, research and other related accomplishments. Applications shall be submitted to the Faculty of Medicine, Office of Research and Graduate Studies. The scholarship will be awarded by the Dean of Graduate Studies on the recommendation of a committee including the Assistant Dean, Graduate Studies (Medicine) and the Graduate Program Coordinators (Medicine).

Donald and Elizabeth Hillman Prize in Pediatrics

This Prize is to be awarded to the most outstanding student in Pediatrics in the Clinical Clerkship Year (Third-Year Medical Studies). The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Laura Hiscock Memorial Bursary

This bursary, valued at a portion of the income from the endowment, has been established through generous gifts from the classmates, friends and family of Dr. Laura Hiscock, Medicine class of 1992, in memory of Laura's life and to honour her enduring spirit. Laura was passionate about life and had an outstanding ability to maintain balance between work and leisure. She was devoted to family and enjoyed helping and encouraging others; she supported other people and enjoyed celebrating their accomplishments, it seemed, as much as her own. She excelled at sports but was also an outstanding "sportsman", with a belief that doing your best was what really mattered. The bursary will be awarded annually to the Memorial University of Newfoundland medical student who, in addition to demonstrated financial need, best demonstrates the qualities Laura embodied: passion for life, devotion to family, work-life balance, selflessness, support of others, and good sportsmanship. To be eligible students must be in their third year of medical studies or beyond. This bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine. The Office of Student Affairs, Medicine will assist the Dean in his or her choice of an appropriate candidate.

The Mary Honeygold Scholarship/Bursary

Established in memory of Mary Honeygold by her family, this scholarship/bursary is to be awarded to a student enrolled in the Faculty of Medicine, Memorial University of Newfoundland, on the basis of academic merit and need. Preference will be given to a student who has stated and/or demonstrated an interest in practising medicine in rural Newfoundland upon graduation. The award is to be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Marie T. Kennedy Bursary

In her will, Ms. Marie Theresa Kennedy left a bequest to Memorial University of Newfoundland to allow one or more bursaries of at least \$5,000.00 to be awarded annually. To be considered, a candidate must be a full-time undergraduate student, in any year of study, majoring in Science or Medicine - it will be awarded on a rotating basis. Students receiving scholarships or bursaries from other individuals or institutions, for the same scholarship year, will not be eligible. The bursary will be awarded on the basis of need and academic effort by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the appropriate Dean.

The Dr. Kevin Keough Medical Entrance Scholarship

This scholarship, valued at a portion of the income on the endowment, has been established through a generous donation by Dr. Ming Jarm Lau, MUNMed Class of 1982. The scholarship is named after Dr. Kevin Keough who was the supervisor of Dr. Ming Jarm Lau for his Master's Thesis in Biochemistry (1978). Dr. Kevin Keough should be remembered as a Professor who believes in bringing out the best in his students and mentees. He has done this by his own example of forever challenging himself and by taking his mentees' best interests to heart. This prestigious entrance scholarship will be awarded annually to an academically outstanding (minimum scholarship standing) student upon entry to first year studies in the Faculty of Medicine. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on the recommendation of the Dean, Faculty of Medicine.

The Dr. J.H. King Memorial Scholarship in Medicine

This scholarship, valued at \$500.00, has been donated to the University by Mrs. Gertrude King, widow of Dr. J.H. King, Specialist in Eyes, Ears, Nose and Throat, who practised in Corner Brook for more than thirty years (1947-1978). The scholarship is open to students

in second year or third year of Medicine at Memorial University of Newfoundland who demonstrate the most promise. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Nichole Michelle Lane Cancer Research Scholarship

This scholarship is provided through the generosity of the Candlelighters Association of Newfoundland and Labrador in memory of Nichole Michelle Lane. It is awarded annually to a second-year medical student enrolled at Memorial University of Newfoundland who has undertaken the most outstanding summer research project in the area of cancer and particularly in the area of pediatric cancer. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the decision of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Dr. Janice E. Lessard Scholarship in Geriatric Medicine

This Scholarship is awarded annually from income derived from an endowment donated by Dr. Janice E. Lessard, an alumna of Memorial University of Newfoundland, Faculty of Medicine and a practising Gerontologist, Toronto. It is to be awarded annually to a student who has completed third year of medical studies. The student will have demonstrated a desire to improve the functional and social well-being of the frail and elderly.

This award, in the amount of \$1,000.00, will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the decision of the Dean of Medicine's Advisory Committee on Scholarships, Awards and Bursaries.

The Medical School Essay Undergraduate Award

The Medical School Essay Award is supported by the K.B. Roberts Scholarship Fund, which was established in appreciation of the contribution made to the Faculty of Medicine by Dr. Kenneth Roberts. The award, valued at a portion of the income on the endowment, will be awarded annually to any undergraduate medical student registered full-time in the current academic year following a competition in the form of an essay or short monograph pertaining to any aspect of medicine or the medical sciences. The essay, not exceeding 5,000 words, should include an interpretative element that indicates the importance and relevance to Medicine, Health and Society. Should there be two essays of very high caliber but one is obviously the better provision may be made for an honourable mention award of lesser value. Submission deadline is April 30, in any given year, to the Office of Student Affairs HSC Room 2713. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean's Advisory Committee on Awards, Bursaries and Scholarships. Awards are also available to postgraduate and graduate students in the Faculty of Medicine.

The Medical Practice Associates Scholarship for Academic Achievement

Medical Practice Associates, the business association of all full-time clinical faculty members in the Faculty of Medicine, offers three prestigious undergraduate scholarships annually. These scholarships are valued at \$1,500.00 in Medicine Year 1 and Year 2 and \$2,000.00 in Medicine Year 4. They are awarded to the student earning the highest overall grades in each of the 1st, 2nd, and 4th years of undergraduate medical studies. The Medicine Year 4 scholarship will be awarded to the recipient of the University Medal for Academic Excellence in Medicine. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Effie and Leander Mercer Scholarship

The scholarship was established by Dr. Jean Mercer in honour of her parents, Effie and Leander Mercer. Valued at the annual interest on the endowment, an award will be made alternately to a third year student in Medicine, Engineering and Post-Secondary Education (formerly Vocational Education). In any given year, if no student is eligible in the designated faculty it may be awarded to a student in one of the other two faculties. The successful student must have done most of his/her studies as a mature student. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation of the respective Dean. Financial need must also be taken into account.

The Gordon Mercer Rural Medicine Bursary

Named for the Founding Officer for Student Affairs in the Faculty of Medicine (1972), this bursary is awarded to a student entering first year studies in the Faculty of Medicine who is from a rural community (as defined by the university) in Newfoundland and Labrador and who is in financial need. The bursary is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine.

The John M. and Elsa S. Morgan Scholarships

These scholarships have been bequeathed to the University by the late Dr. John M. Morgan, B.Sc., M.D., and have been named to commemorate Dr. Morgan and his wife Elsa. Up to twenty-five scholarships will be made available annually to undergraduate students who have completed at least one year of studies at Memorial University of Newfoundland within the areas specified below and who will be continuing in these programs. The scholarships, valued at a minimum of \$1,000.00 each, will be disbursed as follows:

- up to five to the Faculty of Medicine
- up to four to the School of Nursing
- up to four to the Faculty of Education
- up to four to the Department of Philosophy
- up to four to the Department of Anthropology
- up to two to the Department of Religious Studies (with preference to students of comparative religions)
- up to two to students in Newfoundland Studies

The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the appropriate Dean/Director/Department Head. Preference will be given, where possible, to students from the Port-de-Grave District.

The Dr. Charles Nardini Memorial Award

This award was initiated by the Class of 1986 in memory of a classmate who was tragically killed in a skidoo accident in the Spring of 1986. Valued at approximately \$500.00 annually, it will be given to a fourth year medical student who has scholarship standing. He/she should be selected by his/her classmates and judged as follows: The student who best exemplified the characteristics of leadership, friendliness, good humour, care and concern for fellow students and patients.

Selection will take place after completion of fourth year. The student will be nominated by classmates and recommended on the basis of a majority vote. Preference, when possible will be given to students from Labrador. The recommendation must be submitted to the Dean's Advisory Committee on Awards, Bursaries and Scholarships, Faculty of Medicine. It will then be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Medicine.

The Dr. Francis L. O'Dea Scholarship

This scholarship is established to commemorate the memory and work of Dr. Francis L. O'Dea in the field of Obstetrics and Gynecology, and is valued at a portion of the income on the investment. It is awarded annually to a third-year student in the Faculty of Medicine at Memorial University of Newfoundland, whose special interest lies in the area of Obstetrics and Gynecology. The scholarship is awarded

by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Dean of Medicine and a Faculty Selection Committee.

The Pathology Prize

This prize is awarded by the Pathology Department to the second-year student in the Faculty of Medicine whose performance in the General and Systems Pathology courses is considered by the members of the Discipline of Pathology to be most distinguished. The prize was initiated in 1984 by the members of the Discipline in recognition of the distinguished contributions by Dr. S.N. Huang, a previous Chairman of the Discipline, to Pathology and to medical education at Memorial University of Newfoundland. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

Mary E. Pedersen, M.D. Scholarship in Medicine

This scholarship is made possible by a generous donation from Mary E. Pedersen, B.Sc., B.Med.Sc., M.D., CCFP, ABFP, FAAF. Five scholarships, valued at \$1,000.00 each, will be awarded annually, based on scholarship standing, to second year undergraduate medical students at Memorial University of Newfoundland. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Medicine's Advisory Committee on Scholarships, Awards and Bursaries.

The William and Frances Pound Scholarship

This scholarship is the result of a donation to the *Opportunity Fund* by Alumnus, Dr. Bernard Kai Fai So of Hong Kong. It is in recognition of the kindness and generosity shown to Dr. So by Mr. and Mrs. Pound during his years as a student at Memorial University of Newfoundland. Valued at the annual interest on the endowment, it will be awarded annually to a medical student at Memorial University of Newfoundland on the basis of scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Medicine.

The Dr. Calvin N. Powell Bursary in Medicine

This bursary, which was established by Dr. Powell, is valued at \$1,000.00. It will be awarded annually to a student entering the third or fourth year of medical studies at Memorial University of Newfoundland on the basis of scholarship standing and demonstrated financial need. The recipient will hold no other concurrent award. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Medicine's Advisory Committee on Scholarships, Awards and Bursaries.

The Harry Roberts Prize in Pharmacology

In recognition of the contribution made to the community and to the medical profession by Dr. H.D. Roberts, Elizabeth Drugs Limited offers an annual prize of \$200.00 to the medical student who has shown academic excellence in the field of Pharmacology. The prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the decision of the Dean of Medicine's Advisory Committee on Awards, Bursaries, and Scholarships.

The Dr. J.B. Roberts Memorial Scholarship

Friends and colleagues of the late Dr. J.B. Roberts have established this scholarship in his memory. It will be awarded annually to a medical student for the most outstanding performance in second year clinical skills. The value of this scholarship will be determined by the annual income derived from the initial endowment. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, Faculty of Medicine.

The Ryan Scholarship

This scholarship, established by Helen Ryan in memory of family members, Mary B.H., Thomas Sr., Thomas Jr. and Mary, is valued at a portion of the accrued interest on an endowment. Based on scholarship standing and financial need it will be awarded annually to a student in the Faculty of Medicine. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Medicine.

Dr. Howard Strong Memorial Postgraduate Geriatric Psychiatry Scholarship

This scholarship has been established through generous gifts from colleagues, classmates, friends and family of Dr. Howard Strong, a well-known geriatric psychiatrist and member of the first medical graduating class at Memorial University of Newfoundland. The scholarship will be awarded annually to the resident who is rated by the Faculty as having the best performance in the Geriatric Psychiatry rotation during the psychiatry residency training program in the Faculty of Medicine at Memorial University of Newfoundland. It will be awarded by the Faculty of Medicine Postgraduate Medical Education Committee on the basis of a recommendation from the Discipline of Psychiatry and with the approval of the Dean of Medicine. The Office of Postgraduate Medical Education will oversee administration of the scholarship.

The Studentship in Physician and Medical Student Health and Well-Being

The Studentship in Physician and Medical Student Health and Well-Being will provide an opportunity for a minimum of one month academic experience to research and conduct a project on some aspect of Physician Wellness in Medicine. The project may include scholarly research; program evaluation related to health and well-being in the medical profession; or the creation of literature or other art inspired by this theme. It will result in the creation of a deliverable outcome that may be suitable for peer review and presentation at a medical education meeting, conference, and/or suitable for submission for publication. An opportunity will be provided to the donor for viewing the output. The Studentship is valued at \$2,500 prorated over the terms of the project (based on university rates for student pay). It is open to a student who has completed a minimum of first year medical studies in the Faculty of Medicine, Memorial University of Newfoundland. The Studentship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on the recommendation of the Dean, Faculty of Medicine. The Office of Student Affairs, Medicine will assist the Dean in the choice of an appropriate candidate. The award of the Studentship is based on a proposal to be submitted by March 15th of each year. An application is available from the Office of Student Affairs, Faculty of Medicine.

The Morris and Graham Wilansky Memorial Award

This award has been established through a generous donation by family and friends of Morris and Graham Wilansky, in their memory. The scholarship will be awarded annually to the second-year medical student who has achieved highest academic excellence in the Neurosciences course. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Medicine.

4.7 Faculty of Science

The following are available to Faculty of Science students based on a recommendation from the Dean, Faculty of Science or the appropriate Director or Department Head.

The Dr. H.J. Anderson Departmental Awards in Chemistry

Four awards have been established through the Department of Chemistry to honour retired Faculty member and Professor Emeritus, Dr. H.J. Anderson. The recipients of these awards will have demonstrated academic excellence in Chemistry courses; Best Marks in

Chemistry 2400 and 2401, Best Third Year Performance by a Chemistry Major, Second Best Third Year Performance by a Chemistry Major, and Best Fourth Year Performance by a Chemistry Major (not receiving a convocation award). These awards will be presented in May and June of each year based on the most recent year's academic performance. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Chemistry.

The Hugh J. Anderson Chemistry Scholarship

The scholarship is valued at \$5,000, and is provided via a contribution to Memorial University of Newfoundland by Mr. Darryl Fry. It will be awarded on the basis of scholarship standing to residents of Newfoundland and Labrador who have completed first year chemistry at Memorial University of Newfoundland and are declared majors in Chemistry. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Head, Department of Chemistry.

The Dr. Cater W. Andrews Scholarship

This scholarship, valued at a minimum of \$1,000.00, the gift of former students and colleagues of the late Dr. C.W. Andrews, is awarded to a Memorial University of Newfoundland student graduating with a B.Sc. in Biology who plans to pursue graduate work at Memorial University of Newfoundland in marine and/or freshwater biology. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Biology Department. In making the selection, exceptional industry and interest in the field, together with scholarship standing, will be the main criteria taken into account.

The Atlantic Canada Marine Biodiversity Essay Contest Tuition Scholarship

Memorial University of Newfoundland is a participant in the Atlantic Canada Marine Biodiversity Essay Contest which is operated by the Centre for Marine Biodiversity. This contest is open to Grade 12 students from across Atlantic Canada. The first prize winner receives a waiver of tuition fees for two semesters if he or she attends Memorial University of Newfoundland. The two runners up receive partial waiver of tuition fees if they attend Memorial University of Newfoundland. Students are notified of their status in the Essay Contest by the Centre for Marine Biodiversity and the successful candidates are informed of their tuition scholarship by the university, after the Centre for Marine Biodiversity informs the university of the contest winners. Further information can be found on the web site of the Centre at www.marinebiodiversity.ca. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, Faculty of Science.

The Atreya-Haritha Scholarship in Mathematics

This scholarship is the result of a generous donation by Dr. K.R. and Nandini Kothandaraman. Valued at \$1000 annually, it will be awarded on the basis of scholarship standing to a full-time student, either a senior level undergraduate or a graduate student in Mathematics and/or Statistics. In the case of an undergraduate student, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Mathematics and Statistics. In the case of a graduate student, it will be awarded by the Dean, School of Graduate Studies, also upon recommendation of the head, Department of Mathematics and Statistics.

The Au Family Scholarship in Biochemistry

This scholarship is valued at the interest accruing annually on an endowment given to Memorial University of Newfoundland by the Au family. It is open to students entering their final year of study in the Biochemistry program who, during their studies, combined a record of high academic achievement and scholarship standing with active involvement in extracurricular activities within the University, including athletic prowess at the varsity level. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Biochemistry.

Donald and Evelyn Barton Chemistry Scholarship

This scholarship is the result of an endowment to Memorial University of Newfoundland in memory of Dr. Donald Barton who was a faculty member with the Department of Chemistry from 1962 to 1992. This scholarship, valued at a portion of the annual income, will be awarded to a student majoring in Chemistry who is beyond their first year of study and who has demonstrated scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Head, Department of Chemistry in consultation with the Chemistry Department Scholarships Committee.

The Bennett/Khan Bursary in Biology

This bursary is made possible through a fund established by an anonymous donor in honour of Dr's Gordon Bennett and Rasul Khan. Valued at the interest on the initial endowment, it will be awarded annually to a full time student beyond second year who is majoring in Biology with particular reference to parasitology or another branch of invertebrate zoology. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Biology.

The Biochemistry Bursary

Valued at \$1,000, this bursary will be awarded annually to a full time undergraduate student who is enrolled in the fourth year (that is, normally enrolled in majors' courses at the 4000 level) of any Biochemistry Undergraduate degree program in the Faculty of Science. The recipient must have demonstrated financial need and meet the minimum academic requirements for a bursary as defined by Memorial University of Newfoundland, and not be in receipt of any other scholarships or bursaries. The bursary will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Head, Department of Biochemistry.

The E.A. Bishop (1889-1953) Memorial Scholarship

This scholarship, established to honour the memory of E.A. Bishop, a teacher in Newfoundland and Labrador, is the result of a generous donation to Memorial University of Newfoundland by his son, John. Interest on the fund will provide a scholarship to full-time undergraduate students after completion of their first year at Memorial University of Newfoundland who are dependants of teachers in the public school system of Newfoundland and Labrador. Applicants must be students in the Faculties of Arts or Science and be of scholarship standing. The scholarship is valued at approximately two semesters tuition for five courses. If, in any year, there is no eligible candidate, the scholarship will not be awarded; however, a student may be awarded the scholarship more than once. It will be awarded on the basis of a special application which may be obtained from the Scholarships, Bursaries and Awards office, room 4018, University Centre, telephone (709) 864-3956.

W.J. Blundon Scholarship

The W.J. Blundon Scholarship, in memory of Professor W.J. Blundon, Head of the Department of Mathematics and Statistics from 1948 to 1976, will be awarded on the basis of academic excellence to students majoring in Mathematics and/or Statistics. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Department of Mathematics and Statistics.

BP Canada Energy Company Scholarships in Earth Sciences

These Scholarships, the gift of BP Canada Energy Company, are valued at \$2,500.00 each annually and are awarded to two students in the Earth Sciences program at Memorial University of Newfoundland. One scholarship will be awarded to a student in Geology and one to a student in Geophysics. Normally students must be registered full-time in the semester for which these scholarships are granted, however, in the case of a student who has met all academic requirements for their Honours degree, except the Honours dissertation, part-time registration will be accepted. Candidates must have demonstrated high academic achievement, and expressed an interest in

oil and gas exploration and development through their choice of courses and/or dissertation subjects. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Earth Sciences.

The Dr. S. W. Breckon Scholarship in Physics

This scholarship, valued at \$1000.00, is the gift of former students and colleagues of Dr. Breckon and is awarded to the full-time honours Physics student who has the best overall academic performance upon completion of the third or fourth year honours Physics program and subsequent enrollment in the following year.

The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Department of Physics. Applications should be directed to the Head of the Department of Physics.

The Murray H. Brooker Scholarship for Excellence in Chemistry

The scholarship is valued at the annual interest on an endowment established in memory of Dr. Murray H. Brooker who was a professor in the Department of Chemistry when he passed away in 2000. It will be awarded to a student who is beyond first year at Memorial University of Newfoundland, who is a declared major in Chemistry and who has been accepted to work in a Chemistry Laboratory for the current/upcoming summer. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Chemistry.

The Dr. Werner D. Bruckner Scholarship

This scholarship, valued at \$500.00, honours the memory of Werner D. Bruckner, Head of the Department of Geology at this University from 1959 to 1968, J. P. Howley Research Professor from 1968 to 1977 and Professor Emeritus, 1978. It is awarded annually to an undergraduate student majoring in Earth Sciences. The award will be based upon scholarship standing but, in recognition of other concerns held as particularly important by Dr. Bruckner, financial need and qualities of character will also be considered. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences.

The Bruton Scholarship Fund

Dr. F.A. Bruton, friend and colleague of J.L. Paton, taught Nature Study to teachers in three successive Memorial University College summer schools, from 1926-28, at Paton's request. At his death in 1930, Dr. Bruton made a bequest to the College from which two Bruton Scholarships are awarded. These scholarships, valued at \$500.00 each, are awarded annually to students who have demonstrated interest in Plant Biology. One award will be available to a student majoring in Biology whose special interest is in the field of Plant Biology. The second award will be available to an Education student whose main area of interest is in the teaching of science, in particular, plant biology. In the absence of a suitable candidate from the one department, two awards may be made by the other department in accordance with the above conditions. Academic ability and financial need will be taken into consideration in making these awards. They will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of the department concerned.

Buchans Scholarship Fund of ASARCO Incorporated

ASARCO Incorporated has established a scholarship fund, the annual interest on which will provide for students enrolled in the Department of Earth Sciences, Memorial University of Newfoundland, either a scholarship for post-graduate study and research, valued at \$5000.00; or two scholarships for undergraduate study, valued at \$500.00 each. The latter scholarships will be available only when no suitable candidate can be found for the former. In order to qualify for these awards, students must be native-born Newfoundlanders or graduates of Newfoundland high schools. In the case of the graduate scholarship, the award will be made by the Dean of Graduate Studies on the recommendation of the Head, Department of Earth Sciences; in the case of the undergraduate scholarships, by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences. Should no candidates be available in any year, the awards may be held over.

The Canadian Institute of Mining, Metallurgy and Petroleum (Newfoundland Branch) Silver Jubilee Scholarship

This \$1,500.00 annual award is available to students in the final or penultimate year in Earth Sciences at Memorial University of Newfoundland. Scholastic achievement is the principal requirement governing the award but economic need and character may be taken into account. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Head of the Department of Earth Sciences.

The Canadian Society for Chemistry 1996 Conference and Exhibition Scholarship

This scholarship, valued at the annual interest on the initial endowment, was established in recognition of the efforts of the Organizing Committee and the over 100 volunteers for the 1996 Canadian Society of Chemistry Conference which was hosted by Memorial University of Newfoundland. This scholarship will be awarded annually to a student in Chemistry based on the results of the National CIC Chemistry examinations or its successors. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Chemistry.

The Chevron Canada Resources Scholarship in Geology and Geophysics

This scholarship, valued at a portion of the annual income on an endowment created at Memorial University of Newfoundland by Chevron Canada Resources, will be awarded annually to an undergraduate 3rd or 4th year student studying Geology or Geophysics in the Department of Earth Sciences. It will be awarded on the basis of scholastic standing and financial need to a student who graduated from a high school in Newfoundland and Labrador. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences.

The Churchill Falls (Labrador) Corporation Limited Science Scholarship

These scholarships valued at approximately \$2,500.00 each annually, are the result of an endowment to *The Opportunity Fund* by the Churchill Falls (Labrador) Corporation Limited. They will be awarded to second year students or beyond entering the Faculty of Science. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Science. All else being equal, preference will be given to students from Labrador.

The Computing and Communications Scholarship

This scholarship has been established by the Department of Computing and Communications (C&C) at Memorial University of Newfoundland in support of the dependants of its staff members. To be eligible the recipient must have scholarship standing, be a full-time undergraduate student and be a dependant of a current, retired, deceased, or former (having worked in the unit for a minimum of 5 years) employee of C&C or be a current student employee of the Department. One or more scholarships may be awarded in any given year. In the absence of a candidate meeting the above criteria, the scholarship will be awarded to a student beyond first year majoring in Computer Science in the Faculty of Science or a student in the Faculty of Business Administration. A special application will be required and may be obtained from the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, or by telephone to (709) 864-3956. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Captain James Cook Memorial Scholarship

A fund was established in 1979 by members of the Department of Geography to honour the memory of Captain James Cook (1728-79),

explorer, navigator and cartographer, whose years of painstaking mapping of the coasts of Newfoundland and Labrador laid the basis for a comprehensive and scientific knowledge of the geography of the province.

One or more scholarships, valued at not less than \$600.00, will be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Department of Geography to a student or students demonstrating particular merit in Geography.

The Dr. Douglas L. Cooper Memorial Scholarship

This scholarship fund has been established in honour of Dr. Cooper who was the first department head of Chemistry at Memorial University of Newfoundland. The fund will provide several scholarships valued at a minimum of \$1,500.00 each annually. They will be awarded to Chemistry students entering their third year of a Bachelor of Chemistry program (General or Honours). If there are not enough eligible third year students in a given year, it will be open to those in their fourth year. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Chemistry.

The Ernst R. Deutsch Memorial Scholarship in Geophysics

This scholarship is named in honour of Dr. Deutsch, a long-time faculty member at Memorial University of Newfoundland who passed away in 2000. Valued at a portion of the income on the investment the scholarship will be awarded annually to a senior undergraduate student in the Earth Sciences (or related field of Physics) whose concentration is Geophysics. If there is no qualified undergraduate student, the scholarship will be awarded to a full-time graduate student in Earth Sciences who has received an undergraduate degree from Memorial University of Newfoundland and whose area of concentration is Geophysics. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Earth Sciences in the case of an undergraduate student; in the case of a Graduate Student it will be awarded by the Dean of Graduate Studies on the recommendation of the Head, Department of Earth Sciences.

The Faculty of Science Opportunity Fund Scholarship

This scholarship is the result of an endowment created from several general donations to the *Opportunity Fund* by various alumni and friends of the University and in particular of the Faculty of Science. Valued at the annual interest on the endowment, it will be awarded annually to a student beyond first year in the Faculty of Science at Memorial University of Newfoundland on the basis of scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Science.

Dr. L.A.W. Feltham Scholarship

This scholarship began with fundraising within the Biochemistry Department during the 1996 *Opportunity Fund* Campaign. It is named for Dr. Feltham, the founding head of the department. The interest on the endowment will provide a scholarship for a student in the B.Sc. Program in Biochemistry. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards to a student beyond second year on the basis of scholarship standing and a recommendation from the Head, Department of Biochemistry.

Daniel Freeman Memorial Scholarship

This scholarship was established from the contributions of many family members, friends, and fellow students in memory of Danny Freeman, a former Engineering student at Memorial University of Newfoundland. The scholarship, valued at a portion of the accrued interest, will be awarded annually, on a rotating basis, to students enrolled in either Engineering or Mathematics. Preference will be given to candidates with disabilities with consideration given to quality of character and overall perseverance. If a successful candidate is not recommended by the discipline on rotation in a given year an eligible student from the other discipline may be awarded the scholarship for that year. If no candidates are available from the first group any student enrolled in either Engineering or Mathematics (discipline to be determined by the rotation schedule in a given year) will be considered. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering or the Head, Department of Mathematics and Statistics.

The Dr. Patricia Giovannetti Memorial Bursary

The Newfoundland and Labrador College of Dietitians sponsors this Bursary of \$600.00 awarded annually to a student completing the second year of the Dietetics program in the Department of Biochemistry at Memorial University of Newfoundland and who is attending Acadia University the following year. The scholarship will be awarded on the basis of scholastic standing and financial need, to a student who is planning to enter a dietetic internship program upon graduation. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of the Biochemistry Department.

The Samuel, Millicent and Thomas Grandy Memorial Scholarship

This scholarship, established in 1998 by the Grandy Family to honour the memory of their parents, will be valued at a portion of the annual accrued interest on the initial endowment. It will be awarded on the basis of scholarship standing and demonstrated aptitude and potential in the science of computing to an undergraduate student beyond first year in full time study of the Computer Science program (declared major for B.Sc.) at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Computer Science.

Greystone Managed Investments Scholarship

This scholarship, valued at a portion of the income on the investment, is made possible by a generous contribution from Greystone Managed Investments. This scholarship will be awarded, to an undergraduate student beyond first year, on a rotating basis between the Faculty of Science and the Faculty of Arts. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the Faculty on rotation.

The Douglas and Beatrice Hall Biochemistry Bursary

This bursary was established by the employees in the Department of Biochemistry in memory of two dedicated past members of the Department. Valued at a portion of the income on the endowment, it will be awarded annually to a student who is enrolled in the third year (that is, normally enrolled in majors' courses at the 3000 level) of any Biochemistry undergraduate degree program in the Faculty of Science. The recipient must meet the minimum academic and financial requirements for a bursary as defined by the university and not be in receipt of any other scholarships or bursaries. The Bursary will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Biochemistry.

The Hebron Women in Science and Engineering Scholarship Program

This scholarship was created by a generous contribution from the Hebron Project. Scholarships will be made available to female students who are enrolled full-time or part-time at any campus of Memorial University of Newfoundland, have scholarship standing, and who are majoring in engineering, the geosciences, environmental science or chemistry. Students with financial need will be given preference. Also, where possible at least one Scholarship will be awarded to a student in her first year of study. The Scholarships/Awards will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards (for students at the St. John's campus; for recipients at the Grenfell campus or Marine Institute, Scholarships/Awards will be awarded by the appropriate body at the respective campus) upon recommendation from the appropriate Dean or Department Head. The Hebron Project co-venturers are ExxonMobil Canada Properties (operator), Chevron Canada, Suncor Energy Inc, Statoil Canada and Nalcor Energy.

General Rick Hillier Scholarship in Science and Leadership

This scholarship, valued at a portion of the income on the investment, was established through donations and the proceeds of the inaugural Halifax Affinity Dinner, at which General Rick Hillier gave the keynote address. The scholarship is intended to recognize one of Memorial University of Newfoundland's most celebrated alumni. General Hillier is one of Canada's most respected and successful military leaders in generations; a leader who has had a profound impact on Canada's men and women in the military, and an advocate for peace internationally. Upon his retirement in October of 2008, General Hillier took on the position of Chancellor of Memorial University of Newfoundland. To be eligible for this scholarship students must be enrolled full-time in any year of any undergraduate program in the Faculty of Science. Preference will be given to students who demonstrate leadership in their activities, either on or off-campus, and students who have graduated from a high school in rural Newfoundland and Labrador. When possible, preference will also be given to students who are members of military families, or who are past or present members of the military. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarship, Bursaries and Awards based on the recommendation of the Dean, Faculty of Science.

The Marie T. Kennedy Bursary

In her will, Ms. Marie Theresa Kennedy left a bequest to Memorial University of Newfoundland to allow one or more bursaries of at least \$5,000.00 to be awarded annually. To be considered, a candidate must be a full-time undergraduate student, in any year of study, majoring in Science or Medicine - it will be awarded on a rotating basis. Students receiving scholarships or bursaries from other individuals or institutions, for the same scholarship year, will not be eligible. The bursary will be awarded on the basis of need and academic effort by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the appropriate Dean.

The Dr. B.K. Kim Scholarship in Statistics

This scholarship will be awarded annually to an undergraduate student whose major subject of study is Statistics. The award honours the memory of the late Dr. B.K. Kim who taught in the Department of Mathematics and Statistics from 1976-84. The scholarship, with a value of at least \$500.00, will normally be based on academic achievement in third year and/or fourth year courses and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Mathematics and Statistics.

The John Kingston Memorial Scholarship

This scholarship, valued at \$600.00, was established in memory of John F. Kingston, a former member of the faculty of the Department of Chemistry at Memorial University of Newfoundland. It will be awarded annually to a student majoring in Chemistry, who has completed at least 18 credit hours in Chemistry courses, on the basis of academic merit and financial need. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Chemistry.

The Dr. Chu-in Charles Lee Scholarship

This scholarship is established through generous contributions by family, friends, students, professors and the academic community in memory of Dr. Chu-in Charles Lee, who served as Deputy Head of the Department of Mathematics and Statistics for many years. Valued at a portion of the income on the endowment, the scholarship will be awarded on the basis of scholarship standing to senior full-time undergraduate students in their 3rd or 4th year majoring in Mathematics and/or Statistics. To be considered, candidates must take a minimum of four (4) senior Mathematics and /or Statistics courses in a given year with preference given to the student who achieves the highest average on these courses. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Head of the Department of Mathematics and Statistics.

The Julius and Bella Levkovitz Memorial Scholarship

This scholarship is awarded out of income derived from a bequest to Memorial University of Newfoundland by the late Mrs. Bella Levkovitz. From this income a scholarship of not less than \$700.00 is to be awarded as often as possible to an outstanding student in second, third or fourth year, or graduate studies in Pure or Applied Science at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, Faculty of Science.

The LGL Limited Scholarship in Marine Science

This scholarship, valued at \$3,000.00, was established by LGL Limited. It will be awarded annually to a student in the Faculty of Science who is following a program of studies related to Marine Science. The successful candidate will be either a fourth year undergraduate student doing an honours program or a graduate student. Wherever possible, preference will be given to a student from a fishing family, but other students will be considered. In the case of undergraduate students the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies. In both cases it will be based upon a recommendation from the Dean, Faculty of Science.

The Hugh Lilly Memorial Scholarship

This scholarship, presently valued at a minimum of \$3000.00 per annum, will be awarded to the most promising graduate in the Geosciences at Memorial University of Newfoundland who is continuing studies at the post-graduate level, here or elsewhere. The award honours the memory of the late Hugh Lilly, an instructor in the Earth Sciences Department. Selection of the winning candidate will rest with the Senate Committee on Undergraduate Scholarships, Bursaries and Awards in consultation with the Earth Sciences Department.

The Hugh Lilly Undergraduate Scholarship

This scholarship, valued at \$300.00 per annum, will be awarded to an undergraduate student entering the third year of studies in a Geology major program. The award honours the memory of the late Hugh Lilly, an instructor in the Earth Sciences Department. In making the award, academic achievement, character and financial need may be taken into consideration. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Earth Sciences Department.

The Loughney-Brosnan Scholarship in Biochemistry

This scholarship is valued at the interest accruing on an endowment given to Memorial University of Newfoundland by the Loughney family. It is open to an undergraduate student studying the honours program in Biochemistry at Memorial University of Newfoundland and will be awarded on the basis of scholarship standing. Preference will be given to a student entering the final year of the Biochemistry (Honours) Program. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Biochemistry.

The William Kenneth MacLeod Scholarship

This scholarship is the result of a donation to Memorial University of Newfoundland in 2002, in memory of Mr. MacLeod. Mr. MacLeod was a recipient of the Provincial Government Senior Jubilee Scholarship in the early 1930's. The scholarship will be valued at the annual interest on the endowment and will be awarded to a Newfoundland and Labrador undergraduate student who has a recognized disability (physical or learning). The scholarship will be awarded on the basis of scholarship standing to a student in the Faculty of Science.

Where possible, preference will be given to financially needy students as determined by the University. In a year when a student meeting the above criteria cannot be identified, the scholarship may be awarded to any undergraduate student who demonstrates need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of an application.

The Harry Kieft Scholarship

The scholarship, valued at a portion of the income on the investment, was established by the employees in the Department of Physics and Physical Oceanography in memory of a past member of the Department. It will be awarded annually to a student who is enrolled in the third year or beyond of any Physics and Physical Oceanography undergraduate degree program in the Faculty of Science. Selection will be based on scholarship standing and students must not be in receipt of any other scholarships, bursaries or awards. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Physics and Physical Oceanography.

The Mrs. E.D. Matthews Memorial Scholarship in Mathematics and Statistics

This scholarship honours the memory of the late Mrs. Evelyn Matthews who taught in the Department of Mathematics and Statistics, Memorial University of Newfoundland, from 1959-78. It has a value of at least \$500.00, and will be awarded on an annual basis to an undergraduate student whose major subject of study is Mathematics or Statistics. The scholarship will be based on academic merit and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Mathematics and Statistics.

The Carmen and Olive Mews Chemistry Scholarship

This scholarship is the result of an endowment to Memorial University of Newfoundland from the estates of Carmen and Olive Mews. Carmen Mews enjoyed a long career with the Department of Chemistry. He and his wife Olive, both of whom were keenly interested in the welfare of undergraduate students, wished to endow a scholarship to support a student majoring in Chemistry. This scholarship, valued at a portion of the annual interest, will be awarded to a student beyond their first year of study who has demonstrated scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Head, Department of Chemistry.

The Grace Morgan Scholarship in Nutrition

This scholarship is valued at the interest accruing on an endowment given to Memorial University of Newfoundland by Mrs. Grace Morgan. It is open to an undergraduate student studying nutrition at Memorial University of Newfoundland and will be awarded on the basis of scholarship standing. Preference will be given to a student entering the final year of the nutrition program. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Biochemistry.

The Dr. George Moskovits Award

This award is made possible through a fund established by former students and colleagues of Dr. George Moskovits to honour his retirement from the Department of Biology in 1984. The award is valued at \$200.00 and will be made annually to a full-time senior student who has shown outstanding performance in the field of cell biology/microbiology. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Biology.

The E.R.W. Neale Undergraduate Scholarship of the G.A.C. (Newfoundland Section)

The E. R. W. Neale Undergraduate Scholarship is offered annually by the Newfoundland Section of the Geological Association of Canada. The scholarship is open to declared majors in Earth Sciences at Memorial University of Newfoundland. One scholarship valued at \$1000 will be offered annually, on the basis of academic achievement, financial need and character. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences.

The Newfoundland Gardening Scholarship

This scholarship is the result of proceeds from the sale of a book by Dr. Peter J. Scott entitled Newfoundland Gardening. It will be awarded annually to a Biology student who is graduating and intends to pursue a career in plant biology. In the event that such a candidate is not available, it will be awarded to a second year Biology student from Memorial University of Newfoundland going on to study horticulture. The scholarship will be valued at the interest accruing on the initial endowment and will be awarded on the basis of scholarship standing by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Biology.

The Newfoundland Home Economics Association Scholarship

This scholarship, valued at \$800.00, will be awarded annually to a student enrolled in the Dietetics Program at Memorial University of Newfoundland, preferably to a student in the second year of the program. Where possible it will be given to an Honours candidate. This scholarship is tenable for one year and will be awarded on the basis of scholarship standing and financial need. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Biochemistry.

The Newfoundland Margarine - Unilever Canada Scholarship

This scholarship, valued at the annual interest on an initial endowment, will be awarded annually to a student enrolled in the Nutrition major in the Department of Biochemistry at Memorial University of Newfoundland. The award will normally be given to an honours student in his/her final year. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Biochemistry.

The Newfoundland and Labrador Outfitter's Association Scholarship

This scholarship, valued at \$500.00, will be awarded annually to a student in a science program at Memorial University of Newfoundland who is registered in at least his or her third year of studies. The scholarship recipient must plan to pursue an undergraduate academic program leading to a career in Inland Fisheries, Wildlife Management, Wildlife Biology, or a related field of study. The scholarship will be awarded on the basis of academic excellence. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the appropriate department head.

Thomas Corbin Noel Scholarship Fund

This scholarship, in memory of Thomas Corbin Noel Senior and Junior, was established through a bequest by Ella Noel as a tribute to her late husband and son. Corbin Noel Senior was a retired professor of Physics and former assistant vice-president (administration/physical operations) at Memorial University of Newfoundland. Tommy Noel was a student at Memorial University of Newfoundland when a tragic accident took his life. Valued at a portion of the income on the investment, the scholarship will be given to a student majoring in Physics on the basis of scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Physics.

The Noranda Scholarship

This scholarship valued at the annual interest, has been established by the Noranda Foundation as part of the *Opportunity Fund* campaign. It will be awarded on an annually rotating basis between students in Earth Sciences and Engineering and Applied Science. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing

and a recommendation from the Dean/Department Head of the appropriate discipline

Oil and Gas Week Scholarship

Valued at \$1,000 each, these undergraduate scholarships are established by a gift over three years from the organizers of Oil and Gas Week, a program of events held annually in St. John's, NL for the purpose of promoting the oil and gas industry. Two scholarships will be awarded each year. To be eligible, students must be enrolled full-time beyond the first year of an undergraduate program in the Department of Earth Sciences, the Faculty of Engineering and Applied Science, or the Faculty of Business Administration. Eligible candidates must also have scholarship standing and preference will be given to students who graduated from a high school in Newfoundland and Labrador outside of the metropolitan St. John's area. Each year the two recipients must be from different faculties, with each identified academic unit to be represented no more than twice in the three year period of the term of the fund. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on a recommendation from the appropriate academic discipline.

The Dr. V. Stephen Papezik Scholarship

This scholarship, valued at a minimum of \$1000.00, honours the memory of Dr. V. Stephen Papezik, Professor of Geology at Memorial University of Newfoundland from 1961 to 1984. It is awarded annually to an undergraduate student majoring in Earth Sciences whose specialization is closest to mineralogy.

The award will be based upon scholarship standing but in deciding on candidates of equal scholastic attainment, need may be the deciding factor. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences.

The Bruce Pardy Family Scholarship

This scholarship, valued at the annual interest on an endowment, has been established by the Pardy Family. It will be awarded annually to an undergraduate student in the Faculty of Science. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, Faculty of Science.

The Maureen Penney Memorial Scholarship

This \$400.00 scholarship, donated by the Geological Association of Canada, honours the memory of Maureen Penney, B.Comm.(MUN), who was Associate Secretary-Treasurer of the Geological Association of Canada from 1983 to 1989. It is awarded annually to a second- or third-year undergraduate student majoring in Earth Sciences. In making the award, academic achievement will be the primary consideration, but other factors, such as involvement in student activities, will be taken into account. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences.

The Dennis R. Prince Memorial Scholarship

The Dennis R. Prince Memorial Scholarship has been made available by the Prospectors and Developers Association of Canada, Falconbridge Ltd., the Porcupine Prospectors and Developers Association, the mining community, colleagues, friends and family of the late Dennis Prince. Dennis graduated from Memorial University of Newfoundland in 1970 with a B.Sc. Honours degree. He led a distinguished career as a geologist with twenty-nine years at Falconbridge Ltd.

The annual scholarship, valued at \$2,000.00 and an engraved Brunton compass, will be awarded to a final year student specializing in mineral exploration and development in the honours program of the undergraduate degree in Earth Sciences at Memorial University of Newfoundland. If there is no qualified undergraduate student a graduate student who has been accepted for post-graduate studies in mineral exploration and development at Memorial University of Newfoundland and who intends to pursue a career in the mineral industry, will be considered. The qualifying student must demonstrate scholarship standing, strong personal values including a strong work ethic and high personal integrity. Active participation and leadership in geological associations and activities such as The Alexander

Murray Geology Club and the Geological Association of Canada may be taken into consideration as well as financial need. In the case of undergraduates the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates it will be awarded by the Dean, School of Graduate Studies. In both cases it will be based on a recommendation from the Head, Department of Earth Sciences in consultation with the PDAC and the Prince family.

Professional Engineers and Geoscientists Newfoundland and Labrador Past Presidents' Geoscience Scholarship

This scholarship valued at a minimum of \$1,000.00 was established by the Professional Engineers and Geoscientists Newfoundland and Labrador. It is awarded annually on the basis of scholarship standing to a Geoscience student at Memorial University of Newfoundland. It is open to either graduate or undergraduate students in any given year and will be allocated as such at the discretion of the Department Head. In the case of undergraduates, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Earth Sciences in consultation with PEGNL. In the case of graduates it is awarded by the Dean of Graduate Studies upon recommendation of the Head, Department of Earth Sciences, in consultation with PEGNL.

The Psychology Society Award

The Psychology Society Award has been established by the students of the Psychology Society to encourage and support their fellow students. This award will be given to an undergraduate student majoring in Psychology or Behavioural Neuroscience who is beyond their second year of study and meets the minimum academic requirements for an award. It will be based on academic achievement in Psychology or Behavioral Neuroscience courses as well as involvement in the internal and external Psychology or Behavioral Neuroscience community. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Department of Psychology.

Rees Scholarship

This scholarship, funded by Memorial University of Newfoundland alumnus Michael Rees (B.Sc. '99), is awarded annually to a student entering their second year of full-time undergraduate studies majoring in Earth Sciences at Memorial University of Newfoundland. The scholarship is valued at \$1,000 and will be awarded to a Newfoundland and Labrador high school graduate solely on the basis of scholastic achievement (minimum of scholarship standing). It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Head of the Department of Earth Sciences.

The Rotary Club (St. John's Northwest) Scholarship

This scholarship has been established by the Rotary Club of St. John's Northwest. It is valued at \$1,000.00 annually and will be awarded to a full-time student beyond first year, pursuing a Bachelor of Arts or a Bachelor of Science with a major in one of the Social Sciences, who has demonstrated a commitment to community service. The recipient of this scholarship will be a long-term resident of Newfoundland and Labrador who completed high school in this province and will have demonstrated scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the joint recommendation of the Dean of Arts and the Dean of Science. This scholarship will be presented at one of the regular meetings of the Rotary Club of St. John's Northwest and the recipient will be asked to speak about their goals and community service work.

The Roberta H. Sellars Scholarship

This scholarship is the result of an endowment by the Rev. Walter C. Sellars in recognition of his wife Roberta for her loyal and loving support, particularly while he was struggling through university. The scholarship will be awarded annually to a full-time student in any year in either the Faculty of Arts or Science on a rotating basis. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on scholarship standing and financial need and upon the recommendation of the appropriate Dean.

The Rick Sheppard Memorial Scholarship

This scholarship, valued at \$500.00 has been established by the friends and colleagues of Rick Sheppard, a graduate of Memorial University of Newfoundland (Geology-Class of '81), who died in the Ocean Ranger Disaster. The award is open to undergraduate students majoring in Geology. Academic standing, financial need and active participation in the Alexander Murray Geological Club will be taken into consideration in selecting candidates. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Head, Department of Earth Sciences.

The James (Jay) Stackhouse Memorial Scholarship

From a sum of money donated to the University by the friends of the late James (Jay) Stackhouse, a geologist who graduated from this University in 1976, a scholarship has been established for students majoring in the Earth Sciences at Memorial University of Newfoundland. Undergraduate students in their penultimate year of the program may apply. The value of the award will be determined by the annual interest earned on the fund. The scholarship will be awarded at the end of the fall semester by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Head, Department of Earth Sciences.

Statistical Society of Canada Scholarship

This scholarship has been established by a generous donation from the Statistical Society of Canada. It is based on scholarship standing and is awarded to an undergraduate student in any year of study who is majoring in Statistics and meets the minimum academic requirement for a scholarship. The scholarship will be valued at \$750. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Department of Mathematics and Statistics.

The Sun Life Financial Scholarship in Applications of Technology

The Sun Life Financial Scholarship in Applications of Technology is consistent with the company's belief that education is key to the future well-being of individuals, business and society. The scholarship, valued at the annual interest on the endowment, will be designated on an annually rotating basis to a student on the Corner Brook campus and the St. John's campus. It will be awarded to a student within the faculties of Science, Engineering and Applied Science and Business Administration who is focussing his/her studies on the application of technology and has demonstrated scholarship standing. In addition, the student will have actively participated in extra-curricular activities and have been active in student life. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the appropriate Dean and/or the Vice-President of Grenfell Campus.

The Eric A. Swanson Scholarship in Earth Sciences

This scholarship, valued at \$3,000.00, is established by Eleanor Swanson in honour of her father, Eric. It will be awarded annually to a student in the Faculty of Science, who is following a program of studies in Earth Sciences. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Earth Sciences.

Teck Scholarships in Earth Sciences

These scholarships are made possible by a generous contribution by Teck Resources Limited, a Canadian mining company. Two scholarships are available annually to full-time undergraduate students majoring in Earth Sciences: one for a student in the third year of the program and the other for a student in fourth year. To be eligible, candidates must have scholarship standing and must demonstrate strong leadership skills, superior communication skills and a commitment to community and citizenship. Interested applicants should provide to the Head, Department of Earth Sciences one academic and one non-academic letter of reference attesting to their strengths in these areas, along with a cover letter indicating their desire to be considered for the scholarship. Applications will be due by the end of September each year with recipients selected by November and scholarships awarded shortly thereafter. Applicants should contact the Department of Earth Sciences Main Office for specific deadlines. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Head, Department of Earth Sciences.

Dr. Siegfried Thomeier Memorial Prize in Pure Mathematics

The prize, the interest from a donation by an anonymous donor, is awarded to a fourth or fifth year student majoring in Mathematics with a concentration in Pure Mathematics. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Mathematics and Statistics.

The Eugene Vincent Memorial Scholarship

This undergraduate scholarship has been established by the Baie Verte-Springdale Branch of the Canadian Institute of Mining and Metallurgy, in memory of the late Eugene Vincent, a former President and active member of the Branch. The award, which has a value of at least \$300.00, will be restricted to residents of Newfoundland and Labrador who are enrolled beyond the first-year level of the Earth Sciences program at Memorial University of Newfoundland and who are intending to pursue careers in the mining field. Selection of a candidate will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences.

The Robert Westcott Memorial Scholarship

This scholarship was established by Mrs. Mary Westcott in memory of her late husband, Mr. Robert Westcott. It is valued at a portion of the annual interest on an endowment and will be awarded on a rotating basis to students beyond first year who have a strong commitment to post-secondary education and who are majoring in Business Administration and/or Economics. It will be based on scholarship standing and financial need and will be awarded to a student who was born in Newfoundland and Labrador. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean/Department Head of the appropriate discipline.

The Dr. Howard Louis White Memorial Award in Chemistry

This award is the result of a donation to Memorial University of Newfoundland from family members of the late Dr. White, class of 1941. It is awarded to a student majoring in Chemistry who is in 2nd year or beyond. Valued at the annual accrued interest on an initial endowment and based on academic standing, it is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting upon a recommendation from the Head, Department of Chemistry.

The Jacques Whitford Newfoundland Geoscience Scholarship

This scholarship, valued at the annual interest on their endowment, has been established by Jacques Whitford Environment Limited and Newfoundland Geosciences Limited as a contribution to the *Opportunity Fund Campaign*. It will be awarded on an annually rotating basis to students in the Faculty of Engineering and Applied Science (particularly Civil Engineering), the Faculty of Science (particularly

Biological Sciences) and Archaeology. Successful candidates are to be of scholarship standing and preferably show an interest in environmental issues. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean/Director/Department Head of the appropriate discipline.

The Williams Science Scholarships

These scholarships valued at \$1,500.00 each are the result of an endowment started by Dr. Hank Williams. One scholarship from the fund shall be awarded to the most promising second year student entering the Earth Science Program and others, as the fund will allow, will be awarded to second year students entering the Faculty of Science. These scholarships shall be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on recommendations from the Head, Department of Earth Sciences and the Dean, Faculty of Science respectively. In the event that there is no acceptable candidate in Earth Sciences Department in a given year, all scholarships for that year will be awarded to students in the Faculty of Science upon recommendation of Dean.

The Dr. June G. Winter Memorial Scholarship

This scholarship valued at the interest on the endowment was established in memory of Dr. June G. Winter, a former member of faculty in the Department of Chemistry. The scholarship will be awarded annually to a female student in her first year of chemistry studies and will be based on the results of the Chemical Institute of Canada (CIC) National Chemistry Examination. The scholarship is tenable only by students who attended school and wrote the CIC examination in Newfoundland and Labrador. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Chemistry.

The Walker Wood Foundation Bursary in Science

Valued at \$4,000 annually, this bursary is established as a result of a generous contribution from Sue and Neil Wood, friends of Memorial University of Newfoundland. The bursary is available to full-time undergraduate students who graduated from a high school in rural Newfoundland and Labrador and who are entering into their first year of study at Memorial University of Newfoundland with the intention to complete a Bachelor of Science degree. Eligible students must have demonstrated financial need, and preference will be given to candidates who also demonstrate that they are active in the community. The bursary is renewable for three additional years as long as the recipient formally majors in an area within the Faculty of Science, maintains a 70% average, good academic standing and full-time status. In the event that the recipient does not meet the criteria for renewal, the bursary will be transferred to a selected candidate in the corresponding year of study in the Faculty of Science. The bursary is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean of the Faculty of Science.

Dr. James A. Wright Memorial Scholarship

One annually funded scholarship is established by a gift from Leprechaun Resources Ltd. in memory of Dr. James A. Wright, former professor in the Department of Earth Sciences. The scholarship, valued at \$1,000, is available to full time undergraduate students in their second year of study at Memorial University of Newfoundland with a preference for students enrolling at Grenfell Campus. To be eligible, students must meet the minimum academic requirements for a scholarship and must have graduated from a high school on the West Coast of Newfoundland, as defined by the University. Preference will be given to students pursuing any area of study within the Faculty of Science or the Faculty of Engineering and Applied Science. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Lee Wulff Scholarship

A fund was established in 1991 to honour the memory of Lee Wulff (1905-1991), a renowned American sportsman, author, conservationist and environmentalist, who spent a considerable amount of time exploring the waters, barrens and woodlands of Newfoundland, promoting its abundant wildlife resources and supporting conservation. A single scholarship, valued at no less than \$1,500.00 will be awarded annually from this fund, to a third year Biology major wishing to pursue further studies in biological sciences, with emphasis on conservation and environment. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of Biology and the Dean of Science and will be based on academic excellence in biological sciences and a demonstrated interest in conservation and the environment.

4.8 School of Human Kinetics and Recreation

The following are available to students in the School of Human Kinetics and Recreation based on the recommendation of the Dean.

Athletics Northeast (ANE) Running Club Award for Varsity Cross Country

This award was created by Avalon Northeast (ANE) Running Club, which is a community minded club made up of runners of all ages who embrace the concept of serious running as a way to enjoy an active and healthy lifestyle and to enhance their quality of life. The recipients will be one male and one female student, who are members of the cross-country team at Memorial University of Newfoundland and who are in clear academic standing. The recipient will have demonstrated leadership, commitment and dedication to the cross country program while endeavouring to maximize his/her running potential. For undergraduate students, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Director of Athletics, School of Human Kinetics and Recreation. In the event a graduate student is the recommended recipient, it will be awarded by the School of Graduate Studies on the recommendation of the Director of Athletics.

The George and Mary Behm Award

The George and Mary Behm Award, established by Dr. David Behm, is valued at \$500. It will be awarded annually to a full-time graduate student enrolled in the Masters of Kinesiology program who has the highest average in the first four masters' courses of the M.Sc. Kinesiology program. The award will be made by the Dean of the School of Graduate Studies on the recommendation of the Dean, School of Human Kinetics and Recreation. It will be presented at the School of Human Kinetics and Recreation Awards Ceremony in November.

The Edward Patrick Browne Memorial Scholarships

In his will, Edward Browne, a distinguished and beloved member of the University community, and a life-long supporter of the growth and development of the sport of basketball at provincial and national levels, left a bequest to Memorial University of Newfoundland for the awarding of scholarships to students.

These scholarships are awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the advice of the Dean of the School of Human Kinetics and Recreation.

The Bruce J. Butler Award

This award has been established in memory of Bruce J. Butler by his family and friends. Bruce was a graduate of Memorial University of Newfoundland's School of Physical Education and Athletics and a talented varsity athlete who represented Memorial University of Newfoundland in both soccer and hockey from 1964-68. He was known as a great teammate and a genuine team player who possessed a great sense of humor. Valued at a portion of the income on the investment, it will be awarded annually to an undergraduate varsity athlete studying in one of the programs of the School of Human Kinetics and Recreation. In determining this award, preference will be given to student-athletes who have demonstrated leadership, athletic ability and overall commitment to their teammates. The recipient must meet the minimum academic requirements for an award as defined by the University. It will be awarded by the Senate Committee

on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Director of Athletics.

Frank T. Butler Memorial Scholarship

This scholarship was established in memory of Frank T. Butler, a committed and successful athlete, coach and sport administrator at Memorial University of Newfoundland. Frank Butler was the backbone of Memorial University of Newfoundland Athletics for close to 30 years and his contribution to sport at this University and in the province of Newfoundland and Labrador, has been felt at many levels. This scholarship will be awarded to support student-athletes in their pursuit of post-secondary study. Currently valued at \$1,000, the scholarship will be awarded to student-athletes who meet the requirements for scholarship standing and who best combine the values that Frank admired most: athletic commitment, academic success and contribution as an ambassador in the community. The scholarship will be open to all student-athletes who are current members of a varsity team at Memorial University of Newfoundland. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Director of Athletics.

The Olivia and Ethan Button Award

The Olivia and Ethan Button Award, established by Dr. Duane Button, is valued at \$500. It will be awarded annually to a full-time undergraduate student enrolled in the Bachelor of Kinesiology or Bachelor of Physical Education program at Memorial University of Newfoundland and will be given to the student with the highest average in Exercise Physiology 3310. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Human Kinetics and Recreation. It will be presented at the School of Human Kinetics and Recreation Awards Ceremony in November.

The Nita Chambers (Sutton) Award

Nita Chambers (Sutton), a graduate of Stella Maris High School in Trepassey and Memorial University of Newfoundland in St. John's, was a spirited and talented participant in basketball at both the scholastic and intercollegiate levels. This award fund has been established in Nita's memory through the fund-raising efforts of her family, friends, colleagues, team-mates, and former instructors. Valued at a portion of the annual interest, it will provide financial assistance to deserving male and female student-athletes who have graduated from high schools in Newfoundland and Labrador and who compete for the Memorial University of Newfoundland Sea-Hawks in the sport of basketball. To be eligible for this fund students will be required to maintain a minimum cumulative average of 65% within the previous academic year of study at Memorial University of Newfoundland. Funds will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation in consultation with the coaches of the varsity basketball teams.

The Damien and Denis Collier Award

This award was established by former Memorial University of Newfoundland Varsity Wrestlers, Damien and Denis Collier. To be eligible, returning athletes must be a current member of a Memorial University of Newfoundland Sea-Hawks wrestling team and have achieved a minimum average of 65% based on the previous academic year of study at Memorial University of Newfoundland. First-year athletes will also be eligible to receive provided they have an 80% final admission average. First-year athletes who do not meet the minimum 80% entering average may be eligible following the release of Winter grades as long as they maintain a 65% average on all coursework. This is a one-time allowance. Preference for this award will be given to student athletes who have demonstrated outstanding commitment, leadership, athletic ability and dedication to their teammates. The award valued at \$500 annually will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the wrestling coach and the Director of Athletics.

The CSEP/SCPE (Canadian Society for Exercise Physiology) Undergraduate Student Award

The CSEP/SCPE Undergraduate Award recognizes excellence in academic achievement among undergraduate students. It is offered in Canadian universities which offer an undergraduate degree in physical education, human kinetics, or related disciplines. It will be awarded to graduating students who achieve the highest academic standing in their undergraduate class in the scientific portion of their curriculum. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation. One award, in the form of an engraved medallion and a certificate, is granted annually at each university.

Elizabeth Dale NLVA Scholarship

This scholarship has been established by the Newfoundland and Labrador Volleyball Association (NLVA) and will be awarded annually, on the basis of scholarship standing, to a new recruit to the female volleyball program. This scholarship is renewable, for a second year, providing the recipient maintains scholarship standing and is a member of the female varsity volleyball team for both years. If an athlete receives a scholarship in her first year and does not return to the team in the following year, it is at the discretion of the coach to award the scholarship to another returning athlete. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, School of Human Kinetics and Recreation acting on the advice of the team coach and the NLVA Executive.

The Margaret (Mag) Davis Memorial Scholarship

This scholarship has been established in memory of Margaret (Mag) Davis, former graduate of Memorial University of Newfoundland, dedicated physical education teacher and well-known athlete who excelled in the sports of softball, field hockey, ice hockey, soccer, ball hockey, curling, squash and golf. Valued at a minimum of \$500 annually, it will be awarded to a female undergraduate student studying in the programs of the School of Human Kinetics and Recreation. In awarding this scholarship, preference will be given to students who have demonstrated athletic ability and scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, School of Human Kinetics and Recreation.

The Marie and Paul Devlin Athletics Scholarship

This scholarship, valued at a portion of the annual income on the initial endowment, was established by Memorial University of Newfoundland alumnus, Dr. William Devlin. Dr. Devlin is a medical school graduate and a former varsity athlete at Memorial. In awarding this scholarship, preference will be given to undergraduate students who combine academic achievement, leadership and athletic prowess at the varsity level. This scholarship is tenable in all undergraduate programs at this University. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, School of Human Kinetics and Recreation.

The J. Douglas Eaton Alumni Scholarship

This scholarship was established by the Alumni Association of Memorial University of Newfoundland to commemorate the 30th Anniversary of degree programs in the School of Human Kinetics and Recreation and to honour Dr. Eaton a former department head. The value of the scholarship will be determined by the interest accruing from the initial endowment. The scholarship shall be awarded to the student who attains the highest academic standing in the third year of the Bachelor of Physical Education, Bachelor of Recreation or Bachelor of Kinesiology. Recipients must also demonstrate commitment and service in activities related to their intended profession. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on recommendations from the Dean of the School.

Everest 2010 Mountain of Learning Experimental Education Award

This Award was established by TA Loeffler, faculty member in the School of Human Kinetics and Recreation, on the occasion of her

second attempt on Mount Everest. The award, in honour of her grandmother, Frida Loeffler, celebrates Frida's lifelong love of learning. The award will be valued at a portion of the income on the endowment and will be awarded annually to a student who meets the minimum academic requirements for an award as defined by the University. The recipient may be enrolled in any one of the three cooperative education degree programs in the School of Human Kinetics and Recreation. To be eligible for this award, the student will have demonstrated an exceptional commitment to experiential education through their participation in activities or work terms related to their intended profession. The award will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean, School of Human Kinetics, in consultation with the School's Cooperative Education Coordinators. The award is presented annually at the Fall HKR Awards Celebration.

The Matthew J. Foster Alumni Scholarship

This scholarship, established by the School of Human Kinetics and Recreation, Memorial University of Newfoundland, commemorates the 30th Anniversary awarding of the first Bachelor of Physical Education Degrees at Memorial University of Newfoundland and honours Mr. Foster (department head/director - 1964 until his retirement in 1986). They will be valued at the interest accruing from the initial endowment and awarded to the student in the second year of a program offered by the School of Human Kinetics and Recreation who attains the highest academic standing. Recipients should also have demonstrated leadership in activities related to their intended profession. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation from the Dean of the School.

The Dr. M.O. and Grace Morgan Scholarship in Physical Education

This fund is the result of an endowment to Memorial University of Newfoundland from the estate of Dr. and Mrs. Morgan. One or more scholarships, valued at a portion of the annual accrued interest, will be awarded to a Physical Education student in the first year of the Bachelor of Physical Education degree program. The recipients will have demonstrated scholarship standing as well as leadership in the professional preparation and/or services program of the School of Human Kinetics and Recreation. These Scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation.

Rick Morris Memorial Bursary

This bursary was established in memory of Rick Morris by his family and friends. Rick was a caring individual who was deeply committed to Newfoundland and worked with a variety of individuals, organizations, and government. He was a mentor to many helping professionals, who regularly sought his counsel on personal and professional issues. He was deeply concerned with violence against individuals, particularly women, children, and the survivors of Mount Cashel. He was involved in the establishment of Unified Family Court's mediation services and frequently collaborated with the aboriginal and senior's communities. The bursary, valued at a portion of the income from the endowment, will be awarded annually to a student who is in financial need and meets the minimum academic requirements for a bursary. It will be awarded on a rotating basis to a student enrolled in one of the following academic areas: Year 1- School of Social Work, Year 2- Faculty of Education, Year 3- School of Human Kinetics and Recreation, Year 4- Department of Gender Studies and Year 5- School of Nursing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Unit for which the bursary is being awarded.

The Newfoundland and Labrador Basketball Association Merit Awards

These awards, of varying amounts, have been established by the Newfoundland and Labrador Basketball Association. They shall be awarded to Memorial University of Newfoundland students who are members of one of the University's basketball teams and in good academic standing. These awards shall be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards in conjunction with the Dean, School of Human Kinetics and Recreation.

The Newfoundland and Labrador Volleyball Association Awards

These awards, valued at the interest accruing from the principal amount, have been established by the Newfoundland and Labrador Volleyball Association from monies contributed by supporters of volleyball including coaches and players. They shall be awarded to Memorial University of Newfoundland students, male and/or female, who are in good academic standing, displaying commitment and leadership in the game of volleyball and who are members of one of the University's varsity volleyball teams. The awards shall be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation.

The Newfoundland & Labrador Soccer Association Awards

These awards, valued at \$500.00 each have been established by the Newfoundland Soccer Association and shall be awarded to two or more Memorial University of Newfoundland students, one male and one female, who are in good academic standing, displaying commitment and leadership in the game of soccer and who are members of one of the University's soccer teams. The awards shall be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation.

The Proactive Physiotherapy Award in Human Anatomy

This annually funded award, valued at \$250, is the result of a contribution from Proactive Physiotherapy, a company owned and operated by two alumni of Memorial University's School of Human Kinetics and Recreation, Chris Cluett and Justin Whittle. This award is available to the candidate who receives the highest mark in the on-campus offering of HKR 2310, Human Anatomy each year. To be eligible, students must be enrolled full-time as undergraduates in the School of Human Kinetics and Recreation and be in clear academic standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, School of Human Kinetics and Recreation. The award is presented annually at the Fall HKR Awards Celebration.

The School of Human Kinetics and Recreation 30th/25th Anniversary Scholarship

In the calendar year 1994 the School commemorated 30 years of professional preparation in physical education/recreation and 25 years of Atlantic University Sport (AUS) competition at Memorial University of Newfoundland by hosting Anniversary Celebrations. The Steering Committee of these Anniversary Celebrations in co-operation with the two major organizing committees of these events established a \$500.00 Scholarship to be awarded annually to the undergraduate student who combines academic achievement and athletic prowess at the varsity level. In awarding this scholarship, preference will be given to candidates who have demonstrated ability and desire to coach, and to children of either graduates of the School or of former varsity athletes. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the School of Human Kinetics and Recreation.

Scott Memorial Scholarship

This scholarship, established by Winslow and Eileen Scott in memory of their late son Bradford, a former student of Memorial University of Newfoundland, is valued at not less than \$500.00. In awarding this scholarship, preference will be given to students in the Bachelor of Education Intermediate/Secondary Program who have completed the Bachelor of Physical Education or Bachelor of Physical Education (Co-operative) degree at Memorial University of Newfoundland. If a suitable candidate cannot be found in this category it will be awarded to a senior student in the Bachelor of Physical Education or Bachelor of Physical Education (Co-operative) program who is doing the teaching option. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and

Awards on the basis of scholarship standing and upon a recommendation approved by the Dean, Faculty of Education and/or the Dean, School of Human Kinetics and Recreation.

Sea-Hawks Athletics Awards

A limited number of athletic awards are available annually to first year and returning student-athletes who exhibit leadership, achievement and athletic success. The annual number and value of awards will vary. To be eligible for these awards, returning athletes must be a current member of a Memorial University of Newfoundland Sea-Hawks Athletic team and have achieved a minimum average of 65% based on the previous academic year of study at Memorial University of Newfoundland. First-year athletes will also be eligible to receive provided they have an 80% final admission average. The School of Human Kinetics and Recreation Selection Committee may consider other criteria including financial need, service to the University and the community. These awards will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation in consultation with the coaches of varsity teams.

The Michael 'Beecher' Smith Heart Award

The Michael 'Beecher' Smith Heart Award will be awarded to a student-athlete who demonstrates outstanding leadership, dedication and commitment, while bringing a positive attitude to their team. This award is presented in honour of the characteristics that Michael 'Beecher' Smith, a former Memorial University of Newfoundland wrestler, exemplified. The recipient must be a current member of a varsity team and have met the minimum academic requirements for an award. It will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Director of Athletics.

The Harold Squires Scholarship

This scholarship, valued at a portion of the annual interest, was established by Memorial University of Newfoundland Alumnus and long-time employee Harold Squires. In awarding this scholarship preference will be given to a student who competes for the Memorial University of Newfoundland Sea-Hawks in the sport of basketball. Based on scholarship standing it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Human Kinetics and Recreation in consultation with the coaches of the varsity basketball teams.

The St. John's Association of Basketball Officials Award

From a sum of money donated by the St. John's Association of Basketball Officials an award valued at a portion of the annual income on the investment is to be provided annually to a full-time or part-time Memorial University of Newfoundland student, either graduate or undergraduate, who is an active member of the University basketball community. The candidate must meet the University's definition of Clear Standing. In the case of graduate students the award will be made by the Dean, School of Graduate Studies. In the case of undergraduate students the award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In both cases the award is based on the recommendation of the executive of the St. John's Association of Basketball Officials.

The Swimming Newfoundland and Labrador Bursary

This bursary, valued at \$1,000.00 annually, is available to a student continuing beyond their first year of studies at Memorial University of Newfoundland. The bursary recipient will be a swimmer in good standing with Swimming Newfoundland and Labrador and will be a returning member to the Memorial University of Newfoundland Seahawks Varsity Swim Team. Awarding of this bursary will be based on swimming performance at the varsity level. It will be awarded to a student in good academic standing at the University. Applications may be obtained in writing to the Swimming Newfoundland and Labrador Office, RPO MacDonald Drive, Box 21248, St. John's, NL, A1A 5B2 or by telephone to (709) 576-7946 or fax: to (709) 576-7493.

The Josephine Welch Research Initiative Award

The Josephine Welch Research Initiative Award, established by Dr. David Behm, is valued at \$500. It will be awarded annually to a full-time graduate student enrolled in the Master of Kinesiology program who has demonstrated the greatest initiative towards publishing research. This can include submitted or published papers, abstracts or data collection. This award will be made by the Dean, School of Graduate Studies on the recommendation of the Dean, School of Human Kinetics and Recreation. It will be presented at the School of Human Kinetics and Recreation Awards Ceremony in November.

Lorne Woolridge NLVA Scholarship

This scholarship has been established by the Newfoundland and Labrador Volleyball Association (NLVA) and will be awarded annually, on the basis of scholarship standing, to a new recruit to the men's volleyball program. This scholarship is renewable, for a second year, providing the recipient maintains scholarship standing and is a member of the men's varsity volleyball team for both years. If an athlete receives a scholarship in his first year and does not return to the team in the following year, it is at the discretion of the coach to award the scholarship to another returning athlete. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, School of Human Kinetics and Recreation acting on the advice of the team coach and the NLVA Executive.

4.9 School of Music

The following are available to students in the School of Music based on a recommendation from the Dean.

The James E. Austin Memorial Scholarship

From a sum of money donated by the firm of Dicks & Co. Limited, a scholarship has been established in honour of the late James E. Austin, former Chairman of the Board of the Company. The scholarship, valued at \$500.00, is to be awarded annually on the basis of academic excellence to a full-time student enrolled in the School of Music at Memorial University of Newfoundland who is entering the fifth semester of the Conjoint Degree program. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean, School of Music.

Dr. Andreas Barban Memorial Scholarship

This Scholarship was established in memory of Dr. Andreas Barban, distinguished musician and scholar, and former instructor in the School of Music. The scholarship, valued at not less than \$1,000.00 will be awarded to a full-time Bachelor of Music student beyond the first year whose principal applied study is piano, and who has demonstrated musical potential and academic excellence. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Jonas (Joe) Barter Scholarship in Music

This scholarship, valued at \$500.00, is awarded annually from the income derived from a trust fund given to the University by the family and friends of the late Jonas (Joe) Barter. It is to be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of academic excellence, based on the advice of the Dean, School of Music. Preference will be given to a student who has completed three years of study in the area of Music Composition.

The Yvonne Belanger Memorial Bursary

This fund was established by her family to cherish the memory of musician, teacher and mother, Yvonne Belanger. The bursary will be awarded annually to full-time Bachelor of Music students beyond first year from the interest accrued on this endowment. The award is

made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music with the criteria for eligibility being musically, musical achievement, financial need, and scholarship standing.

The Amanda Bishop Memorial Scholarship

This fund was established by the family of Amanda Bishop to cherish the memory of a loving and caring daughter and sister whose life-long ambition was to study voice in preparation for a career in the performing arts. With a value of at least \$500.00, this scholarship will be awarded annually to a student beyond the first year of the music degree program in good academic standing, whose performance medium is voice and who has demonstrated dedicated commitment to the betterment of the music community. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Charles J. Bown Memorial Entrance Scholarship in Music

This scholarship was established in 2001 in memory of Charles J. Bown (1963-2000) who graduated from Memorial University of Newfoundland in 1985 with a Bachelor of Music and Music Education. He went on to obtain his Master's degree in vocal performance from the University of Ottawa in 1994. He was actively involved in music as an educator, choir director, soloist and organist until his death on October 24, 2000. Valued at the annual interest on the endowment, the scholarship will be awarded to a student entering the Bachelor of Music program at Memorial University of Newfoundland who has demonstrated musical potential, academic ability and financial need. Preference will be given to a student whose major applied study is in voice. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Dennis G. Browne Memorial Scholarship

This scholarship, valued at the accrued interest on an endowment, established by the firm of Patterson Palmer Hunt Murphy, in memory of the late Dennis G. Browne, who was a member of their law firm; will be awarded to a student enrolled beyond first year in the Bachelor of Music program. The scholarship will be awarded on the basis of scholarship standing and demonstrated musical potential. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Buell-Olson Scholarship

This scholarship, valued at a portion of the income on the investment, was established by Dr. Gerry B. Olson, who was a Henrietta Harvey Visiting Professor in the School of Music in 1983-84 and a long time contributor to the vitality of instrumental music in Newfoundland and Labrador. It was renamed in 2006 on the occasion of the retirement of Dr. Donald Buell in recognition of his seminal role in instrumental music and music education in Newfoundland and Labrador. It is to be given to a student entering the first year of the Bachelor of Music program. Preference will be given to a student from Newfoundland and Labrador whose principal applied study is in woodwind, brass or percussion. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the School of Music.

The Canadian Broadcasting Corporation (Newfoundland & Labrador Region) Entrance Scholarship in Music

This scholarship, valued at not less than \$500.00, is to be awarded annually from a sum of money donated by the Canadian Broadcasting Corporation (Newfoundland and Labrador Region). The scholarship will be awarded on the basis of academic standing and demonstrated music potential, to a student from Newfoundland and Labrador entering the first semester of full-time study toward the Bachelor of Music degree. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Dr. G. Albert Cooper Bursary

This bursary, valued at the accrued interest on an initial endowment, is awarded annually to a full-time Bachelor of Music student beyond second year who has demonstrated academic excellence, musical potential and need. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Dean, School of Music.

Olga Davis Scholarship in Music

This scholarship was established in honor of Mrs. Olga Davis, for whom music constitutes an essential part of life. It is derived from a generous gift by Dr. John Guy and Ms. Jennifer Guy (Davis) to the School of Music. The scholarship, valued at \$1000 will be awarded annually to a Music student beyond first year who is a resident of Newfoundland and Labrador. The recipient must demonstrate both musical excellence in his or her applied study as well as financial need. The scholarship will be awarded by the Senate Committee of Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

Karl Diemer Memorial Bursary

This fund has been established by Mme Roberte Diemer in memory of her husband, Corner Brook businessman, Karl Diemer. Trained as a professional singer, Mr Diemer had a great love for music and encouraged young musicians. The bursary, valued at a portion of the income on the investment, will be awarded annually to a voice student beyond first year who demonstrates musical potential and scholarship standing, as well as financial need. If there are no voice candidates in a given year, the award will be made to a student whose performance medium is strings. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

ECMA Legacy Scholarship

This scholarship, valued at \$1000.00, has been established by the East Coast Music Association. It will be awarded annually to a student in any year of the Music program who demonstrates scholarship standing. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Frederick and Isabel Emerson Memorial Scholarship

This scholarship has been established in memory of Frederick and Isabel Emerson by their children. Mr. Emerson, lawyer, musician, and a former lecturer and member of the Board of Regents, was involved in setting up and teaching music classes in the early days of the Memorial University College. The scholarship, valued at not less than \$500.00, is awarded annually to a full-time music degree student beyond the second semester. Selection of candidates will be made on the basis of academic standing, financial need and character. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Ed Goff Memorial Scholarship

This scholarship valued at a minimum of \$2,500.00 is to be awarded to a student in any year in the Bachelor of Music degree program who shows musical potential and has scholarship standing. Preference will be given to a student whose principle applied study is saxophone. It may be renewed for the duration of the student's program, up to a maximum of four years, if he or she continues to excel musically and maintain scholarship standing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Gower Youth Band Entrance Scholarship in Music

This scholarship, in the value of at least \$1,000.00, is sponsored by The Gower Youth Band in honour of former members who have become professional musicians and music educators. The scholarship is open to all students in brass, woodwind or percussion entering the first year of full-time study in the School of Music, and is awarded on the basis of musical excellence and potential as demonstrated at the entrance audition. This award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the

recommendation of the Dean, School of Music.

The Alan D. Hall Award

This award has been established in memory of Alan D. Hall by his friends and family. A longtime faculty member in the Department of English at Memorial University of Newfoundland, he was deeply engaged in Music and Theatre throughout his life. The award, valued at a portion of the income on the investment, will alternate between the School of Music and the Faculty of Arts on a yearly basis. For the School of Music the award will go to a Music student beyond first year who demonstrates a high level of achievement on their instrument of applied study as well as involvement and commitment to the music community. For the Faculty of Arts the award will go to a student beyond first year enrolled in the program leading to a Diploma in Performance and Communications Media or a student enrolled in the program leading to a Bachelor of Arts degree with a major in Drama and Music. The eligible student must demonstrate a high level of achievement in theatre, as well as involvement in and commitment to the theatre community. To qualify for this award, students must meet the academic requirements for an award as outlined by the University. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music or the Dean, Faculty of Arts.

The Norah and Leo Healey Memorial Award in Music

This Award has been established in memory of Norah and Leo Healey by their granddaughter Noreen Greene-Fraize and her spouse Thomas W. Fraize Q.C. The award will go to a School of Music student in any year of study seeking support for a community engagement project. To qualify for this award, students must meet the academic requirements for an award as outlined by the University and submit a proposal – including a timeline and an approximate budget - to the Dean, School of Music by October 15. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Ben Heppner 25th Anniversary Scholarship in Music

This scholarship was established through the generosity of Canadian tenor, Ben Heppner, who donated his fee for a recital given on the occasion of the 25th anniversary of the founding of the School of Music. Proceeds from the concert were matched by the *Opportunity Fund* to endow the scholarship. Valued at a portion of the annual interest on the endowment, it will be awarded annually to a student in the Bachelor of Music degree program on the basis of musical and academic excellence. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Winnifred Holloway Memorial Scholarship

This scholarship is the result of a bequest left to the University by Mrs. Velda Richards of St. John's. The scholarship, valued at approximately \$1,000.00, will be awarded annually to a female student who is full-time in the Bachelor of Music program and who is beyond first year. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music on the basis of musical talent, financial need, and scholarship standing.

The William J. House Memorial Scholarship

This scholarship, valued at a portion of the income on the investment, has been established in memory of William J. House by his widow, Mrs. Daphne L. House. The scholarship is to be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the School of Music, to a full-time organ student from Newfoundland and Labrador who shows promise and purpose of continuing in that field.

The Howse of Flowers Music Scholarship

This scholarship, valued at not less than \$500.00, is awarded annually to a full-time music degree student beyond the second semester who has demonstrated academic excellence and musical potential. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of the Dean, School of Music.

The Imperial Tobacco Canada Entrance Scholarship in Music

This scholarship, established in 1998 by Imperial Tobacco Canada in support of the *Opportunity Fund* Campaign, has a minimum value of \$2,000.00 annually. It will be awarded on the basis of scholarship standing and demonstrated music potential, to a student entering the first semester of full-time study toward the Bachelor of Music degree at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Music.

The JUNO Legacy Graduate Scholarship in Music

This scholarship was established by the 2010 JUNO Awards Host Committee to support excellence in music. This scholarship, valued at \$2,000 will be awarded annually to a full-time graduate student at the School of Music enrolled in the Master of Music (M.Mus.) program. The recipient must meet the minimum academic requirements for a scholarship as defined by Memorial University. It will be awarded by the Dean, School of Graduate Studies on the recommendation of the Director, School of Music.

The Kiwanis Club of St. John's Music Scholarship/Bursary

This scholarship/bursary, valued at \$750.00, is awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music, to a promising student who is continuing studies in music at this University. Selection of candidates will be made on the basis of financial need, academic standing and character. The scholarship/bursary is not restricted to any particular year of study.

The Margaret Krause Scholarship in Music

This scholarship has been established in memory of Mrs. Margaret Krause, a pianist and cellist, who lived in St. John's during the years 1955-58 with her husband, Dr. Lucjan Krause, a professor of physics at Memorial University of Newfoundland's Parade Street location. During this time Margaret played much chamber music with local musicians and their children Janet and Catherine were born. Catherine (also a cellist) subsequently became Director of the Health Sciences Library at Memorial University of Newfoundland. One scholarship valued at a portion of the income on the investment, will be awarded annually to a full-time undergraduate student in scholarship standing whose principal instrument of applied study is a bowed string instrument. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Music.

The Dame Vera Lynn Scholarship in Music

This scholarship, valued at a maximum of \$2500.00 over five years (\$500.00 per year), was established to honour Dr. Vera Lynn, the distinguished musician and honorary graduate of Memorial University of Newfoundland. It is open to all students entering the first year of full-time study in the School of Music and is awarded on the basis of academic standing and musical potential as demonstrated at the entrance audition. The recipient must maintain scholarship standing to retain the scholarship. A relinquished scholarship may be re-awarded at the discretion of the Dean, School of Music. This award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music. Application forms may be obtained from the School.

The R.F. (Bob) MacLeod Memorial Entrance Scholarship in Music

This scholarship, with a value of at least \$300.00, has been established in memory of Mr. R.F. (Bob) MacLeod, pianist, organist, and entertainer. The scholarship is awarded annually to a student entering the first year of full-time study toward the Bachelor of Music degree. In making the award preference will be given to a student from rural Newfoundland and Labrador. Academic standing, character and financial need will be considered. The award is to be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the advice of the Dean, School of Music.

The Pat and Margaret Maloney Scholarship in Music

This scholarship was established by Dr. Aidan Maloney in honor of the lasting contributions of Margaret Maloney and her late husband Patrick to the musical life of our community. With Margaret's indelible passion for singing and Patrick's innate talent as a "kitchen" musician, music and life were synonymous to them. Individually gifted and together dynamic, they shaped a legacy shared by not only family, but our community at large. The scholarship, valued at a portion of the income on the investment, will be awarded annually to a Music student beyond first year who demonstrates musical excellence in her or his applied study. The scholarship will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Marquis Limited (Colonel Sanders) Bursary in Music

This fund was established to provide financial assistance to students from Newfoundland and Labrador whose permanent residence is outside the St. John's metropolitan area, and who are entering the first year of full-time study in the School of Music. The number of awards given annually and the value of each shall be determined by the Dean, School of Music. The award(s) is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The David McCurdy Memorial Bursary

This bursary, established by the family and friends of the late David McCurdy, a former student of this University, is valued at \$300.00 and is awarded annually to a student enrolled in the School of Music. In making the award, interest and ability in Music, as well as financial need, will be considered. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Joan McNamara Furlong Award

This scholarship, awarded annually in memory of Mrs. Joan McNamara Furlong, is provided from the interest accumulated on a continuing endowment given for this purpose by her family. At the request of the sponsors it will be awarded to a second- or third-year student in voice who shows definite promise and purpose of continuing in that field, and of making a cultural contribution to the community. The scholarship will be utilized by the successful candidate to further studies in voice at Memorial University of Newfoundland. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Karen Keirstead Mills Memorial Scholarship in Music

This scholarship was established in 1991 in memory of Karen Keirstead Mills, a former organ student and voice instructor in the School of Music. The scholarship, valued at not less than \$1,000.00, will be awarded to a full-time Bachelor of Music student who is normally beyond the first year and who has demonstrated musical potential and academic ability. Preference will be given to a student whose major applied study is in voice or organ. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Dorothy Duff Moores Memorial Entrance Scholarship in Music

This scholarship in memory of Dorothy Duff Moores, a lover and supporter of music, is provided from the interest accumulating on an endowment given for this purpose by her son Frank D. Moores and family friends. Valued at a portion of the income on the investment, it is awarded annually to a student of outstanding academic and musical ability who is entering the first semester of full-time study towards the Bachelor of Music degree. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

Mrs. Grace Morgan Scholarship in Music

This fund was established in 1982 by faculty members of the School of Music in recognition of the interest and support given by Mrs. Grace Morgan to music at Memorial University of Newfoundland. Further funding resulted from a bequest to the University by Dr. M.O. Morgan after his death in 1995. Four scholarships, each valued at not less than \$2,500.00, will be awarded annually from the income derived from the fund. Two scholarships will be awarded to students entering the first semester of full-time study toward the Bachelor of Music degree, and two scholarships will be awarded to students beyond the first year of the music degree program. In making the awards, academic standing and musical potential will be considered. Whenever possible, at least one of the awards will be given to a student in piano and at least one of the awards will be given to a student in organ. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

Carl Morrissey Bursary in Music

This bursary is established in memory of Mr. Carl Morrissey by his family and friends. Through this bursary they hope his love of and involvement in music will continue to encourage young musicians, as he did so often. The bursary, valued at a portion of the income on the investment, will be awarded annually to a full-time undergraduate student in the School of Music in any year of study based on financial need and demonstrated musical potential. The recipient must meet the minimum academic requirements for a bursary. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Arthur and Dorothy Noseworthy Entrance Scholarship in Music

This scholarship, valued at not less than \$1,000.00, is to be awarded annually from the interest accruing from an endowment fund established by the Noseworthy family in honour of their parents. The scholarship will be awarded on the basis of academic excellence and demonstrated musical potential to a student entering the first semester of full-time study toward the Bachelor of Music degree. Preference will be given to a student whose principal instrument is organ. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Dr. Hugh O'Neill Prize in Piano

This prize is the result of a generous donation to Memorial University of Newfoundland by The O'Neill Foundation. One prize valued at \$500.00 will be awarded annually to the top graduating undergraduate student in the School of Music, who majored in piano. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Music.

The Dr. Hugh O'Neill Prize in Violin

This prize is the result of a generous donation to Memorial University of Newfoundland by The O'Neill Foundation. One prize valued at \$500.00 will be awarded annually to the top graduating undergraduate student in the School of Music, who majored in violin. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Music.

The Dorothy and David Peters Scholarship in Music

The Dorothy and David Peters Scholarship in Music was established by Dr. David Peters with the intention of providing full, course-based tuition for two semesters (Fall and Winter) to the best student at the School of Music who displays the aptitude, ability, and passion for concert performance. Valued at a portion of the income on the endowment, the Scholarship is available to a School of Music student in his or her second year of studies and is renewable for up to two additional years provide they meet the academic requirements for a scholarship as defined by Memorial University of Newfoundland. The recipient must display a high level of musical ability for concert performance in any of the following areas: a keyboard instrument, strings, voice, woodwinds, or brass. In order to be

considered for renewal, the recipient must be a performance major with scholarship standing during years three and four of their program and all of the aforementioned criteria will apply where eligibility is concerned. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The G. Calvin Powell Memorial Scholarship

This scholarship, valued at \$500 has been established by Rebecca Eleanor Powell in memory of her grandfather G. Calvin Powell whose love of the arts and encouragement towards Ms. Powell were influential in her desire to study music. It will be awarded annually to a student beyond first year in the School of Music on the basis of scholarship standing and excellence on his or her instrument of applied study. The Scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

Rex E. Rood Memorial Scholarship

This scholarship has been established in memory of Rex E. Rood by his wife and daughter. Although not a musician or performer, Mr Rood had a deep love and knowledge of classical music which he shared with his family and which formed an integral part of his life. He enjoyed orchestral arrangements, choral works and solo voices, but was particular fond of operatic tenors.

This scholarship, valued at \$2000.00 per year, is to be awarded to a student in any year of the Bachelor of Music degree program who demonstrates musical potential and academic excellence. Preference will be given to a student whose principal applied study is voice, in particular a tenor, bass or baritone. The award may be renewed for the duration of the student's program, up to a maximum of five years, if the recipient continues to excel musically and maintains scholarship standing. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Music.

Rex and Ruth Rood Memorial Scholarship in Music

Rex Rood had a deep love and knowledge of classical music, which he shared with his family and which formed an integral part of his life. Ruth (Hue) Rood had a lovely soprano voice and performed in many operettas and concerts during her school years and as a soloist and in chorales as an adult. This Scholarship is given in memory of her parents by their daughter, Susan Maunder. Valued at \$2,000 per year, it is awarded to one student annually in any year of the Bachelor of Music degree program who demonstrates musical potential and academic excellence. Preference will be given to a student whose principal applied study is voice. One scholarship, in total, will be awarded each year with the previous recipient being eligible for renewal (up to a maximum of five years) if the recipient continues to excel musically and maintains scholarship standing. The Scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Music.

The Dr. Ignatius A. Rumbolt Scholarship in Music

This scholarship, valued at a portion of the income on the investment, was established in memory of Dr. Ignatius A. Rumbolt, distinguished musician, music educator, builder of the choral tradition in Newfoundland and Labrador, and honorary graduate of Memorial University of Newfoundland. The scholarship is awarded to a student beyond first year in the Bachelor of Music degree program who has demonstrated academic excellence and musical potential. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

School of Music Faculty Scholarship/Bursary Fund

These scholarships/bursaries of the value of at least \$300.00 each are awarded out of income derived from a fund established in 1976 by the faculty members of the School of Music. The awards are made annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music, to promising students who are continuing their studies in Music at this University. Selection of candidates will be on the basis of musicianship, academic standing, financial need and participation in School of Music activities.

The Sergeants Mess of Newfoundland Memorial Entrance Scholarship in Music

From the revenue accruing from War Savings Bonds purchased in 1940 by the Sergeants Mess of Newfoundland, a fund was established in 1990 to provide an annual scholarship of not less than \$500.00 to a student entering the first semester of full-time study in the School of Music. Academic excellence and musical potential as demonstrated at the entrance audition will be considered. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Roger Skinner/Music NL Memorial Award in Music

This award has been established in memory of Roger Skinner by his friends, family and Music NL. Roger contributed significantly to the music industry of this Province and was a founding member and drummer of the legendary country/rock group The Ducats. He served on the Board of Directors for Music Newfoundland & Labrador for a number of years and was serving as President at the time of his passing in 2002. Among his many contributions to the music of Newfoundland and Labrador, it was his vision that resulted in the creation of Music NL's Annual Awards Gala which celebrates the best of our Province's music industry. Valued at a portion of the income on the endowment, the Award will go to an undergraduate student in the School of Music with demonstrated financial need who meets the minimum academic requirements for an award as outlined by Memorial University of Newfoundland. The Award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Director, School of Music.

The Grace M. Sparkes Alumni Entrance Scholarship/Bursary in Music

The Memorial University of Newfoundland Alumni Association has established, from its Alumni Annual Fund, an entrance scholarship/bursary in Music. The award, valued at not less than \$500.00, will be given annually to a student entering the first semester of full-time study towards the Bachelor of Music degree. Academic standing, musical potential and financial need will be considered. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Grace M. Sparkes Scholarship in Music

This scholarship was established by Mrs. Sparkes, former Alumni of the year and devoted friend of Memorial University of Newfoundland. Valued at approximately \$500.00, it will be given annually to an undergraduate student in full-time study towards the Bachelor of Music degree. Scholarship standing and musical potential will be the main considerations in awarding this scholarship. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Harold and Maxine Stanley Award

The award is established in memory of Mr. Harold Stanley by his family and friends. The award valued at a portion of the income on the investment, will be awarded annually to a full-time undergraduate student beyond first year in the School of Music. The recipient must meet the minimum academic requirements for an award. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Gordon M. Stirling Memorial Scholarship/Bursary

This fund was established by the Stirling Ryan law firm in memory of their late senior partner Gordon M. Stirling. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based upon the recommendation of the Dean, School

of Music. The award will be available to an exceptional student(s) enrolled in the School of Music to assist with travel and other expenses to enable such student(s) to perform at events of major musical importance outside the province. Scholarship standing, musical ability, financial need, and the benefits such exposure would confer on the student(s) will be taken into consideration by the Committee. The value of the award will be based on the interest income accruing on the capital sum in the fund.

Wesley Male Choir Bursary

This bursary was established in memory of William Collins and his two sons, John and Calvin 'Robert' Collins, who were all members of the Wesley Male Choir. It is derived from a generous gift by the late Mr. Calvin 'Robert' Collins to the Choir. The bursary valued at a portion of the income on the investment, will be awarded annually to a voice student beyond first year who demonstrates musical excellence in their applied study as well as financial need and meets the minimum academic requirements for a bursary. If there are no voice candidates in a given year, the award will be made to a student in another performance medium. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Mary C. Whiteley Entrance Scholarship in Music

This scholarship is awarded annually to a student entering first year in the School of Music at Memorial University of Newfoundland. It is awarded on the basis of scholarship standing and musical potential as demonstrated in the entrance audition. The value of this scholarship is determined by the amount of interest accrued on the principle sum. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

The Mrs. H.B. Young Memorial Scholarship

This scholarship has been established by Mrs. Helen Marquis in memory of her mother, Mrs. H.B. Young, and is awarded annually to a full-time student at the School of Music. The value of the award will be based on the income accruing from the fund during the period of tenure of the scholarship. In selecting candidates, academic achievement, financial need and character will be taken into consideration. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Music.

4.10 School of Nursing

The following are available to students in the School of Nursing based on a recommendation from the Dean.

The Alcohol and Drug Dependency Commission Commemorative Awards

These awards have been established to commemorate the Alcohol and Drug Dependency Commission (1982-1992). In an effort to promote the pursuit of addictions studies in various disciplines, it is hoped that recipients will pursue careers in addiction-related fields. Up to three awards, valued at \$750.00 each, are available annually and open to students who have completed a major or published paper at the undergraduate or graduate level or are completing an Honours Dissertation on addictions issues. It will be awarded on a rotating basis to students in Pharmacy, Nursing, Medicine, and Social Work with a Faculty or School receiving only one award in any given scholarship year. These awards will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean/Director/Head of the respective Faculty or School.

The Kathleen M. Baird Memorial Scholarship

This scholarship is made possible through a fund established by Mrs. Edna Baird-Stephenson in memory of her sister Kathleen M. Baird (1903-1985). The scholarship will be valued at the annual accrued interest on the endowment and awarded annually to a student in the second year of the Bachelor of Nursing (Collaborative) Program on the basis of scholarship standing and financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Nursing.

The Eleanor and Norval Blair Travel Scholarship in Nursing

This scholarship is made possible through a donation to the *Opportunity Fund* Campaign in 1998 by Mr. and Mrs. Blair. The scholarship, valued at the annual accrued interest on the endowment, shall take the form of a travel grant to a student in the Bachelor of Nursing (Collaborative) program at the Memorial University of Newfoundland School of Nursing site who has demonstrated excellence in nursing practice. The recipient will be a student in the third or fourth year of the program who will pursue each of the clinical practicum courses in the given semester. First preference will be given to those students going outside the province of Newfoundland and Labrador to complete their clinical. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, School of Nursing.

Clayton and Alice Cook Nursing Award

This award was established by Mr. Clayton D. Cook. The award, in honor of his niece Menetha Dyke, RN., will be valued at a portion of the income on the endowment and will be awarded annually to a student who meets the minimum academic requirements for an award, as defined by the University. The recipient must be enrolled in the second year of the undergraduate Bachelor of Nursing program at the School of Nursing. The award will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Nursing.

The Ruby Dewling Memorial Award in Nursing

This award has been created in memory of Ruby Dewling, a respected faculty member in the Memorial University of Newfoundland School of Nursing. Ms. Dewling taught in all areas of the program as a clinical instructor. She started her career by earning a diploma in Nursing from the General Hospital School of Nursing and then completing the post-RN diploma in clinical supervision from the University of Toronto. A lifelong learner, Ms. Dewling, went on to earn a B.Sc. from Mount St. Vincent and an M.Sc. (Medicine) from Memorial University of Newfoundland. She remained deeply involved with nursing education throughout her life and serves as an exemplary model for the nursing profession. The award, valued at a portion of the income from the endowment, will be presented annually to a graduate student in the School of Nursing who is completing research in, or who has a passion for, community health and who meets the minimum academic requirements for an award. Preference will be given to a full-time student. The award will be awarded by the Dean of Graduate Studies upon the recommendation of the Dean of the School of Nursing.

The Barbara Fowlow Memorial Scholarship

This scholarship is made possible by a fund established by friends and colleagues in memory of Barbara Fowlow, a graduate of Memorial University of Newfoundland's School of Nursing. Valued at the annual interest on the initial endowment, it is awarded annually to a student who is entering the final year of the Bachelor of Nursing (Collaborative) Program. Preference in awarding the scholarship will go to students who have shown an interest in Cardiovascular Nursing and/or been involved in student life through volunteer work, involvement in Student Societies etc., during their university years, particularly within the School of Nursing. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, School of Nursing.

Glendinning and Miller Family Scholarship in Nursing

This scholarship was established by Jane Carol Glendinning-Johnson, Andrea (Glendinning) Sumsion, and Barbara (Glendinning) Smith to honour and remember Andrew and Jane (Bethune) Glendinning and Hugh and Barbara (Green) Miller, their respective offspring and other family members, and to recognize their belief in the value of education which has carried down to the present generation. This

scholarship, valued at a portion of the accrued interest on an initial endowment, will be awarded annually to a student registered full-time in the Bachelor of Nursing (Collaborative) Program at Memorial University of Newfoundland. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, School of Nursing.

The Heart and Stroke Foundation of Newfoundland and Labrador Nursing Award in Cardiovascular Health

Established by the Heart and Stroke Foundation of Newfoundland and Labrador the Award, valued at \$1,000 annually, will be presented to an undergraduate student in any year of the Bachelor of Nursing program at the School of Nursing. The student will have demonstrated an interest in cardiovascular health, have actively volunteered with the Heart and Stroke Foundation and also have met the minimum academic requirements for an award. The Award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Nursing.

The Heart and Stroke Foundation of Newfoundland and Labrador Nursing Award in Stroke

Established by the Heart and Stroke Foundation of Newfoundland and Labrador the Award, valued at \$1,000 annually, will be presented to an undergraduate student in any year of the Bachelor of Nursing program at the School of Nursing. The student will have demonstrated an interest in patient health related to stroke care, have actively volunteered with the Heart and Stroke Foundation and also have met the minimum academic requirements for an award. The Award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Nursing.

The Mirdza Kajaks Scholarship

This scholarship, established by Mirdza Kajaks, is valued at a portion of the accrued interest on the endowment. It will be awarded annually to a full-time student entering the first year of the Bachelor of Nursing (Collaborative) Program at the Western Regional School of Nursing. It is the wish of Mrs. Kajaks that the recipient plans to practice in Newfoundland and Labrador upon completion of studies. Whenever possible such students will be given first preference. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Dean, School of Nursing.

The Daphne King (Bajzak) Memorial Award in Patient Care

The Daphne King (Bajzak) Memorial Award in Patient Care was generously established by the family of Mrs. Daphne Bajzak, a graduate of the General Hospital School of Nursing. Throughout her nursing career she provided calm comfort for those in pain. She will always be remembered for her kindness, compassion, empathy, positivity, tolerance and honesty towards patients and their families. Daphne came to be known for her unwavering dependability, trustworthiness and patient care centered approach to healing. The award will be presented annually to a student entering the 4th year of the Bachelor of Nursing program at the School of Nursing. The student will have demonstrated exemplary patient care by being an advocate for patients and their families' well-being during their clinical placements. The student must also meet the minimum academic requirements for an award. The award will be granted by the Senate Committee on Undergraduate on Scholarships, Bursaries and Awards upon the recommendation of the Director of the School of Nursing.

The Marilyn Marsh Scholarship

This scholarship is made possible by a fund established by former students and colleagues of Marilyn Marsh on the occasion of the Twenty-Fifth Anniversary of the School of Nursing. The scholarship is awarded annually to a student who has completed the second year of the Bachelor of Nursing (Collaborative) Program at the Memorial University of Newfoundland site. Criteria (in order of priority) for this award are:

- Demonstrated clinical excellence
- Participation in student/school activities
- Academic standing

The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean of the School of Nursing.

The John M. and Elsa S. Morgan Scholarships

These scholarships have been bequeathed to the University by the late Dr. John M. Morgan, B.Sc., M.D., and have been named to commemorate Dr. Morgan and his wife Elsa. Up to twenty-five scholarships will be made available annually to undergraduate students who have completed at least one year of studies at Memorial University of Newfoundland within the areas specified below and who will be continuing in these programs. The scholarships, valued at a minimum of \$1,000.00 each, will be disbursed as follows:

- up to five to the Faculty of Medicine
- up to four to the School of Nursing
- up to four to the Faculty of Education
- up to four to the Department of Philosophy
- up to four to the Department of Anthropology
- up to two to the Department of Religious Studies (with preference to students of comparative religions)
- up to two to students in Newfoundland Studies

The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the appropriate Dean/Director/Department Head. Preference will be given, where possible, to students from the Port-de-Grave District.

The Margaret Fitzpatrick Morgan Scholarship in Nursing

This fund was established by the late Dr. M.O. Morgan in memory of his wife, the late Margaret Fitzpatrick Morgan. One or more scholarships valued at not less than \$2,500.00 each will be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards to a student or students registered full-time in the Bachelor of Nursing (Collaborative) Program. Preference will be given to students entering the first year of the program preferably from rural Newfoundland and Labrador.

Rick Morris Memorial Bursary

This bursary was established in memory of Rick Morris by his family and friends. Rick was a caring individual who was deeply committed to Newfoundland and worked with a variety of individuals, organizations, and government. He was a mentor to many helping professionals, who regularly sought his counsel on personal and professional issues. He was deeply concerned with violence against individuals, particularly women, children, and the survivors of Mount Cashel. He was involved in the establishment of Unified Family Court's mediation services and frequently collaborated with the aboriginal and senior's communities. The bursary, valued at a portion of the income from the endowment, will be awarded annually to a student who is in financial need and meets the minimum academic requirements for a bursary. It will be awarded on a rotating basis to a student enrolled in one of the following academic areas: Year 1- School of Social Work, Year 2- Faculty of Education, Year 3- School of Human Kinetics and Recreation, Year 4- Department of Gender Studies and Year 5- School of Nursing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Unit for which the bursary is being awarded.

The John Pelley Memorial Scholarship

The John Pelley Memorial Scholarship is established in loving memory of Mr. John Pelley, a graduate of the Western Regional School of

Nursing. John was an Offshore Health Advisor who was aboard the Cougar 491 flight that was tragically lost on March 12, 2009. The scholarship will be awarded to a student in their final year in the Bachelor of Nursing (Collaborative) program at the Western Regional School of Nursing who has expressed an interest in post-graduate training in emergency nursing, occupational health nursing or critical care nursing. Preference will be given to a student who demonstrates a combination of a strong work ethic, a passion for student life and extra-curricular activities. To be eligible, students must meet the minimum academic requirements for a scholarship. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Director of the Western Regional School of Nursing.

The Elizabeth Lindsay Robbins Scholarship in Nursing

This scholarship was created by Elizabeth (Betty) L. Robbins who was born on May 15, 1911 in Strathaven, Lanarkshire County, Scotland. Betty graduated in Nursing from Stobhill General Hospital, Glasgow, Scotland on October 31, 1940 and received a Certificate from the Central Midwives Board for Glasgow on December 13, 1940. She came to Newfoundland on Jan 20, 1947 and married Frederick Robbins in St. John's on March 1, 1947. Mr. Robbins was a Newfoundland war veteran from Burlington, Notre Dame Bay, who had served with the Royal Navy during the Second World War.

This scholarship, valued at a portion of the annual accrued interest on an endowment (a minimum of \$2,500.00 annually), will be awarded to a student in the third year of the Bachelor of Nursing (Collaborative) Program. The scholarship will be awarded on the basis of scholarship standing, financial need, and nursing professional practice. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Nursing.

The Katharine Roberts Memorial Scholarship

This Katharine Roberts Memorial Scholarship has been endowed by Edward Roberts in memory of his mother Katharine. The scholarship is valued at a percentage of the income on the endowment and will be awarded annually to a student in any year of the Bachelor of Nursing (Collaborative) Program.

The first preference in awarding the scholarship will be given to Bachelor of Nursing (Collaborative) Program students from the electoral Districts of The Straits and White Bay North, Lake Melville and Cartwright-L'Anse au Clair (or other Districts embracing the communities in those Districts, which were established by the House of Assembly in 1995). If no suitable candidate comes forward from one of these Districts in any given year, the scholarship may be awarded to a Nursing student from a rural community elsewhere in Newfoundland and Labrador.

The scholarship will be awarded on the basis of scholarship standing, but in the case of a tie between two equally deserving students, financial need may be used as a determining factor. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Nursing.

The Royal Canadian Legion, Branch 13 Bursary in Nursing

Established by the Royal Canadian Legion, Branch 13 the bursary will be awarded to an undergraduate student in any year of the Bachelor of Nursing program at the Western Regional School of Nursing. The student must be in financial need and meet the minimum academic requirements for a bursary. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Director of the Western Regional School of Nursing.

The School of Nursing Class of 1976 Bursary

The Bursary, valued at a portion of the income on the endowment, will be awarded on the basis of financial need to a student who is registered full time at Memorial University of Newfoundland's School of Nursing and who has completed their first year clinical placement of the Bachelor of Nursing Collaborative program. Candidates must have displayed a passion for patient care through their respective clinical placements and have met the minimum academic requirements for a bursary. Students must have a supporting letter of recommendation detailing how they have demonstrated a passion for patient care from their clinical course instructor. In the event there is more than one suitable candidate for the bursary preference will be given to a student who comes from outside of the St. John's area. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Nursing.

The School of Nursing Faculty Memorial Award

The School of Nursing Faculty Memorial Award pays tribute to our respected faculty members who have passed on. The School of Nursing Faculty Memorial Award honours the following faculty members: Ruby Dewling, Grace Gould, Neil Joiner, Maureen Laryea, Margaret McLean, Joyce Nevitt, Beverly Rockwell, and Elizabeth "Betty" Summers. The award is valued at a portion of the income from the endowment and will be awarded to a student beyond their first year of the Bachelor of Nursing program at the School of Nursing. The recipient must emulate the best qualities of a nursing faculty member; including a passion for nursing education, a spirit of caring and a commitment to nursing and a compassion for patients. The award will be presented by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the School of Nursing.

The St. John's Home Care Scholarship for Excellence in Community Health Nursing

This scholarship valued at the annual accrued interest on the initial endowment will be awarded to a full-time or part-time student enrolled in the Bachelor of Nursing (Post RN) or Master of Nursing Program at Memorial University of Newfoundland with preference given to candidates enrolled in the Bachelor of Nursing (Post-RN) Program. Candidates must also have employment experience in community health nursing and demonstrated recent voluntary involvement in a community organization(s). Minimum academic requirements are a 75% overall average in either the completed diploma program in nursing or completed courses in either the B.N. (Post-RN) or Masters Program. In the case of undergraduates the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of Graduates the scholarship will be awarded by the Dean of Graduate Studies. In both instances the award will be based upon a recommendation from the Dean, School of Nursing.

The Sybil Gertrude Rusted Toy Memorial Bursary

This bursary, established by Dr. Nigel Rusted in memory of his sister Sybil, is valued at a portion of the accrued interest on an endowment. Sybil, the daughter of Rev. Canon Ernest and Faith (Hollands) Rusted, was born in Upper Island Cove April 2, 1911. She was educated at schools in Upper Island Cove, Carbonear, Girl's College in New York and the Royal Victoria Hospital in Montreal. The bursary will be awarded annually to a student entering the first year of the Bachelor of Nursing (Collaborative) Program with first preference to students from the Conception Bay North area, who have demonstrated ability and financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Nursing.

The Janet P. Winsor Bursary

This bursary, valued at a portion of the accrued interest on the initial endowment, is awarded annually to third year students enrolled in the B.N.(Collaborative) Program who demonstrate financial need over and above academic excellence. The candidates must have scholarship standing as well as demonstrate financial need. At least one bursary will be awarded in each of the three sites. The criteria for this award includes excellence in Year 3 clinical courses (Nursing 3501 and 3511) supported by a letter of recommendation from clinical instructors. The student's file may also be used to determine examples of clinical excellence. Each Committee on Undergraduate Studies will select the student at their site. This bursary will be awarded at the Graduation and Awards Ceremony in the Spring, but not necessarily to the highest academic student. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean, School of Nursing.

4.11 School of Pharmacy

The following are available to students in the School of Pharmacy based on a recommendation from the Dean.

The Abbott Prize

Abbott Laboratories Limited awards an annual prize consisting of \$250. This prize is awarded to a student of high academic merit. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the Recommendation of the Dean, School of Pharmacy.

The Alcohol and Drug Dependency Commission Commemorative Awards

These awards have been established to commemorate the Alcohol and Drug Dependency Commission (1982-1992). In an effort to promote the pursuit of addiction studies in various disciplines, it is hoped that recipients will pursue careers in addiction-related fields. Up to three awards, valued at \$750.00 each, are available annually and open to students who have completed a major or published paper at the undergraduate or graduate level or are completing an Honours Dissertation on addiction issues. It will be awarded on a rotating basis to students in Pharmacy, Nursing, Medicine, and Social Work with a Faculty or School receiving only one award in any given scholarship year. These awards will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean/Director/Head of the respective Faculty or School.

The Alpha Group Memorial Award in Community Pharmacy

The Alpha Group is a dedicated group of independent pharmacy owners who provide the communities of Newfoundland and Labrador with essential health care services and represent a vital part of the health care delivery system. The Award is given in memory of the members of the Alpha Group who have made a significant difference in the lives of their patients and who have now passed on. The Award will be presented to a student in the 3rd or 4th year of the Bachelor of Science (Pharmacy) program who has demonstrated excellence in community pharmacy practice during the completion of their structured practice experience placement. Preference will be given to students who have demonstrated excellence within an independent pharmacy practice setting. The student must also meet the minimum academic requirements for an award. The Award will be presented by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

Amerisource-Bergen Canada Scholarship/Bursary

This award of \$500.00 is provided to a student who has successfully completed the first year of the Pharmacy program. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Pharmacy.

The James and Betty Batt Family Award in Pharmacy

The James and Betty Batt Family Award in Pharmacy was generously established by Mr. Michael Batt, School of Pharmacy, Class of 1991, in loving memory of his grandparents James and Betty Batt. The award is valued at a portion of the income from the endowment and will be presented annually to an undergraduate student in any year of the Bachelor of Science (Pharmacy) program. The award is available to a student who is in financial need and who is actively engaged in community service, either within the School of Pharmacy or the external community and who meets the minimum academic requirements for an award. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The Kristine Cadigan Memorial Award

This award is valued at a portion of the income from the endowment and will be presented annually to any student in the Bachelor of Science (Pharmacy) program. The award recognizes a well-rounded and deserving student who is never afraid to help out when needed, dedicated to what he/she does, interested in a variety of different activities, involved in activities both inside and outside the School of Pharmacy, committed to the profession and shows significant academic accomplishment. The student must also meet the minimum academic requirements for an award. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

Canadian Pharmacists Association (CPhA) Centennial Award

This award offered by the Canadian Pharmacists Association consists of a \$300.00 cash prize and a travel tour of approximately one week to visit manufacturing laboratories and health facilities in Toronto, Montreal or Ottawa and to attend the annual conference of the Association. It is made to a student who is completing the third year of the Pharmacy program. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The CAPSI/WYETH - Guy Genest Passion for Pharmacy Award

This award, valued at a portion of the income from the endowment, is the result of a generous lead donation by the student membership of the CAPSI organization (Canadian Association of Pharmacy Students and Interns). It is established in honour of Mr. Guy Genest, a passionate individual, who has demonstrated unwavering support of Canadian Pharmacy students and interdisciplinary healthcare practices. The award recipient will be a pharmacy student in any academic year, in clear academic standing (as defined by the University), who shows clear evidence of dedication to and passion for the profession of pharmacy. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, School of Pharmacy.

The J. Joseph Dicks Memorial Bursary in Pharmacy

This bursary, valued at a portion of the income from the endowment, is the result of a generous donation by the family in memory of Mr. J. Joseph Dicks, a prominent pharmacist who achieved great success in his profession and community. The bursary will be awarded to a full-time Pharmacy student in any year of the program who demonstrates financial need and has a minimum GPA of 2 out of a possible 4. The recipient will also exemplify similar character as Mr. Dicks, who overcame personal challenge to achieve success. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, School of Pharmacy.

The Drug Store Pharmacy (Dominion) Bursaries

The Pharmacy division of Dominion Canada has established two bursaries of \$500.00 each. These bursaries are provided to two deserving students who have demonstrated significant financial need. These bursaries will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Dean, School of Pharmacy.

The G.R. Duncan Prize in Pharmacy

This award of \$100.00 is to be given annually to a student in any year of the pharmacy program who displays school spirit, is involved in school-related extra curricular activities, and promotes the profession of pharmacy. The recipient shall be chosen by student ballot. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Pharmacy.

The Excellence in Compounding Award

This award is given to a student completing the first year of the Pharmacy program who obtains the highest mark in the compounding laboratory portion of the first year pharmaceuticals courses. The award is valued at \$250.00. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Edward D. Freeman Bursary

This bursary honours the memory of Edward D. Freeman, a prominent Harbour Grace pharmacist who was a founding member of the Newfoundland Pharmaceutical Association (now the Newfoundland and Labrador Pharmacy Board). Valued at a portion of the income from the endowment it shall be awarded to a deserving student of good academic standing in the School of Pharmacy on successful completion of Pharmacy Year III to enable the student to complete his/her studies with financial assistance. This bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, School of Pharmacy.

The David Goudie Memorial Award in Pharmacy

David Goudie was a prominent pharmacist from the Deer Lake region who exemplified the characteristics of hard work, determination and humility. David was dedicated to his patients' well-being and demonstrated this through his philanthropy of time, service and financial support. David was known for his love of mentoring new pharmacists and employees, and as a person who was highly regarded as a community leader in Port Aux Basques region. The award will be granted to a student who has graduated from a Newfoundland and Labrador Secondary School and who is enrolled in the Bachelor of Science (Pharmacy) program at the School of Pharmacy. The student will have demonstrated an interest in practicing in a rural location. The award, valued at \$500 annually, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean of the School of Pharmacy.

The Charles E. Frosst Scholarship in Pharmacy

This award of \$1,000.00 and a Merck Manual is presented by Merck Frosst Canada Inc. to the top first-year student of the Pharmacy program. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Pharmacy.

The Hapgood and Vey Family Award

The Hapgood and Vey Family Award has been generously provided by Ms. Beverly Vey and is valued at \$2000. It will be presented annually to a student in any year of the Bachelor of Science (Pharmacy) program who is the descendent or spouse of a member of the Canadian Armed Forces or the Royal Newfoundland Regiment and who meets the minimum academic requirements for an award. A student may be the recipient of the award for a maximum of two years. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The Robert Heale Memorial Bursary

This bursary, valued at \$250.00 annually, honours the memory of Robert Heale, an honorary life member of the Newfoundland Pharmaceutical Association (now the Newfoundland and Labrador Pharmacy Board) who practised for over 50 years as a community pharmacist; and trained many pharmacists before pharmacy training programs were in place in Newfoundland. It is awarded to a student in any year of the pharmacy program who demonstrates scholarship standing and financial need. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of a recommendation from the Dean, School of Pharmacy.

The Dr. L.R. Hensman Prize

This prize is awarded to the Pharmacy student who places first in the CAPSI sponsored patient interview competition. A \$100.00 cash prize will be awarded. This prize is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Pharmacy.

The Linda R. Hensman Award

As a timeless advocate for the advancement of pharmacy education and practice, Dr. Hensman has been recognized as one of the top 100 most influential pharmacists in Newfoundland in the past century by the Newfoundland and Labrador Pharmacy Board. The Award is made possible by a generous gift by Dr. Linda R. Hensman, the third Director and first Dean of the School of Pharmacy. The Award, valued at a portion of the income from the endowment, will be granted to the pharmacy student who places first in the CAPSI sponsored patient interview competition. The student must also meet the minimum academic requirements for an award. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The J. Keith Lawton Memorial Bursary

This bursary has been established by the Board of Directors and employees of Lawton Drug Stores with the support of the Sobeyes Foundation, to honour the memory of J. Keith Lawton. The value of the award will represent the interest generated from the endowment each year. It will be awarded to a deserving student selected from all students enrolled in the Pharmacy program. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the School of Pharmacy.

The L.J. Lawton Memorial Award

A plaque, donated by the Canadian Pharmacists Association in memory of Louis J. Lawton, a founder of the Newfoundland Pharmaceutical Association (now the Newfoundland and Labrador Pharmacy Board), is presented each year as an Honour Award to a student entering the final year of the Pharmacy program. The recipient shall be chosen by the students and faculty by ballot in recognition of a commitment to the School of Pharmacy as well as a high degree of academic ability and showing of promise in making significant contributions to the profession of Pharmacy. In addition, this shall be accompanied by a miniature award and monetary award valued at the income from the endowment each year. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Pharmacy.

The McKesson Scholarship/Bursary

McKesson provides two awards valued at \$250 each. These awards will be open to all students enrolled in the School of Pharmacy and will be awarded on the basis of academic merit and financial need. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Memorial University Pharmacy Society Spirit Award

The Memorial University Pharmacy Spirit Awards have been generously provided by the Memorial University Pharmacy Society (MUPS) and are valued at \$200. Two awards will be presented annually to the two students in any year of the Bachelor of Science (Pharmacy) program who are ranked first and second in their accumulation of Memorial University Pharmacy Society points and who meet the minimum academic requirements for an award. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The Merck Scholarship

This award of \$1,000.00 and a Merck Manual is presented by Merck Frosst Canada Inc. to the top second-year student of the Pharmacy program. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Dean, School of Pharmacy.

The James J. O'Mara Awards

The James J. O'Mara Awards were created to honour the memory of James O'Mara, a prominent Newfoundland pharmacist who

tirelessly worked as an advocate for a university based School of Pharmacy. He served as the President of the NPhA from 1970-72 and was Secretary/Registrar of what is now the Newfoundland and Labrador Pharmacy Board from 1981-1990. An award will be given to one student in each year of the pharmacy program. The students will be selected based on top performance in the Pharmacy Skills courses for the year of study, as recommended by the course coordinators. Each award is valued at a portion of the income from the endowment. The awards are conferred by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the School of Pharmacy.

The Ottawa Pharmacy Alumni Award

The Ottawa Pharmacy Alumni Award has been generously provided by Ms. Hao Nguyen, Dr. Co Pham, and Dr. Roland Halil. The award will be presented annually to a student in their 3rd or final year of the Bachelor of Science (Pharmacy) program. The award recognizes a student who demonstrates a strong commitment to extra-curricular activities within Memorial University of Newfoundland and the external community and meets the minimum academic requirements for an award. The award, valued at a portion of the income from the endowment, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Dean of the School of Pharmacy.

The Ottawa Pharmacy Alumni Scholarship

The Ottawa Pharmacy Alumni Scholarship has been generously provided by Dr. Co Pham, Dr. Roland Halil and Ms. Hao Nyugen. The scholarship is valued at \$1000 and will be presented annually to a student in their third or final year of the Bachelor of Science (Pharmacy) program. The scholarship recognizes a student who demonstrates a strong commitment to extra-curricular activities within Memorial University of Newfoundland and the external community and meets the minimum academic requirements for a scholarship. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The Panta Pharmaceutical Passion for Compounding Award

The Panta Pharmaceutical Passion for Compounding Award has been generously provided by Panta Pharmaceutical. The award is valued at \$250.00 and will be presented annually to a student in the Bachelor of Science (Pharmacy) program. The award recognizes excellence in pharmacy compounding. The successful candidate must have demonstrated a passion for the art of compounding, have been recommended by their clinical skills coordinator and meet the minimum academic requirements for an award. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The Pfizer Award of Excellence

Pfizer Canada Inc. presents an annual award of a \$200 cash prize. The Award is presented for excellence in Clinical Pharmacy by a graduating pharmacy student. The Award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Dr. Co Pham and Family Award

The award was created by Dr. Co Pham, a proud graduate of the School of Pharmacy's Class of 2000. Dr. Pham passionately believes that the ideals of innovating and maintaining the independence of professional practice and the drive to be entrepreneurial are of paramount importance to pharmacy practice and were therefore a pivotal part in his desire to create this award. The award will be presented annually to a student in any year of the Bachelor of Science (Pharmacy) program who exemplifies an entrepreneurial and innovative spirit in the pursuit of advancing the pharmacy profession, independent pharmacy practice of the School of Pharmacy. The student must also meet the minimum academic requirements for an award. The award, valued at a portion of the income from the endowment, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean of the School of Pharmacy.

The PharmaChoice Award

The PharmaChoice Award, valued at \$500 annually, is given to a student in the School of Pharmacy. Candidates must demonstrate satisfactory performance in the Pharmacy Administration course and be in clear academic standing as defined by the University. Candidates must also have displayed interest in retail pharmacy as evidenced by past work experience as well as having expressed an interest in working in the field after graduation. The Award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, School of Pharmacy.

Pharmasave Community Service Award

Pharmasave provides one award in the amount of \$1250. This award is provided to a student entering the 2nd year of the pharmacy program who has made outstanding contributions to his or her community through volunteer service. Students must be in clear academic standing and be actively involved in volunteer work which has an impact on community life. Students will be eligible to win this award only once during his/her tenure at the School. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, School of Pharmacy.

Pharmasave Pharmacy Innovation in Patient Care Award

Pharmasave provides two awards in the amount of \$1250 each. These awards are provided to students in clear academic standing who are entering the 3rd or 4th year of the pharmacy program who show leadership in the development and implementation of a "non-dispensing" patient care program/service offered by a community pharmacy. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, School of Pharmacy.

The Jaclyn Rogerson Memorial Bursary in Pharmacy

The Jaclyn Rogerson Memorial Bursary in Pharmacy, valued at a portion of the income from the endowment, is established in loving memory of Jaclyn Rogerson, a well respected graduate from the School of Pharmacy's Class of 2004. The bursary is a result of gifts to Memorial University of Newfoundland by Jaclyn's family and friends to honour her commitment to the pharmacy profession and her community. As a gifted communicator and empathetic pharmacist, Jaclyn succeeded in providing caring support to her patients and community. The bursary will be awarded to a student entering their final year in the Bachelor of Science (Pharmacy) program at Memorial University of Newfoundland. Based on financial need and a minimum GPA of 2 (out of a possible 4), preference will be given to a student who also demonstrates a combination of a strong ability to communicate and empathize with patients, school spirit or who actively engages in community service. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean of the School of Pharmacy.

Sandoz Canada Inc. Scholarship/Bursary

Sandoz Canada Inc. offers annually three awards of \$500.00 each which are open to all students enrolled in the School of Pharmacy. They are to be awarded to students of good academic standing with an aptitude for Pharmacy. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Sanofi-Aventis Canada Inc. Scholarships

Sanofi-Aventis Canada Inc. offers annually two scholarships in the amount of \$750.00 each to deserving students entering the first year of the Pharmacy program. The selection will be based on academic achievement and admission requirements. These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the

Dean, School of Pharmacy.

The School of Pharmacy Entrance Scholarships

The School of Pharmacy provides two awards annually in the amount of \$1,000.00 each to students entering the first year of the program. Recipients will be selected on the basis of academic achievement and admission requirements. These awards will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The School of Pharmacy Class of 2011 Legacy Award

The School of Pharmacy Class of 2011 Legacy Award has been established by contributions from members of the Class of 2011. The Award is established to celebrate the bonds of friendship between members of the class. It also recognizes the class' belief in the value of providing service to the School of Pharmacy and the profession. The Award will be presented annually to an undergraduate student who has completed the third year of the Bachelor of Science (Pharmacy) program. The Award is available to a student who has demonstrated professionalism throughout their program, has served on at least one School of Pharmacy committee and has been engaged in service activities that advance the community or the profession. The student must also meet the minimum academic requirements for an award. The Award, valued at \$200 annually, will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The School of Pharmacy Silver Anniversary Scholarship

The School of Pharmacy Silver Anniversary Scholarship was created to celebrate the accomplishments of the School of Pharmacy's alumni, faculty, staff and students on the 25th anniversary of the School's founding in 1986. The Scholarship will be awarded annually to a maximum of two undergraduate students entering the Bachelor of Science (Pharmacy) program at the School of Pharmacy. It will be awarded to the highest ranked students based on academic achievement and admission requirements. The student must also meet the minimum academic requirements for a scholarship. It is valued at a portion of the income on the endowment and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

The Shoppers Drug Mart Associates Scholarships/Bursaries

Shoppers Drug Mart provides three scholarships/bursaries valued at \$1000.00 each. These awards will be open to all students enrolled in the School of Pharmacy and will be awarded on the basis of academic merit and financial need. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Augustus Stafford Memorial Scholarship

This award is presented to honour a founding member of the Newfoundland Pharmaceutical Association (now the Newfoundland and Labrador Pharmacy Board), the late Augustus Stafford of St. John's. The award, consisting of \$300, is given to the student achieving the highest academic standing in the first year of the Pharmacy program. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Teva Canada Scholarship/Bursary

Teva Canada provides two awards in the amount of \$500 to be granted annually to students achieving excellence in one of pharmaceutical manufacturing, biopharmaceutics, or medicinal chemistry. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Pharmacy.

The Christina M. Tulk Scholarship in Pharmacy

The Christina M. Tulk Scholarship in Pharmacy was generously established by Ms. Christina Tulk, a proud graduate of the School of Pharmacy's Class of 2002. The Scholarship, valued at \$1,000 will be presented annually to an undergraduate student in any year of the Bachelor of Science (Pharmacy) program. The Scholarship is available to a student who has attempted to advance the profession and School of Pharmacy with grace and humility. In the instance where more than one suitable candidate exists, financial need may be used as a determining attribute. The student must also meet the minimum academic requirements of a scholarship. The Scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the School of Pharmacy.

4.12 School of Social Work

The following are available to students in the School of Social Work based on the recommendation of the Dean.

The Alcohol and Drug Dependency Commission Commemorative Awards

These awards have been established to commemorate the Alcohol and Drug Dependency Commission (1982-1992). In an effort to promote the pursuit of addictions studies in various disciplines, it is hoped that recipients will pursue careers in addiction-related fields. Up to three awards, valued at \$750.00 each, are available annually and open to students who have completed a major or published paper at the undergraduate or graduate level or are completing an Honors Dissertation on addictions issues. It will be awarded on a rotating basis to students in Pharmacy, Nursing, Medicine, and Social Work with a Faculty or School receiving only one award in any given scholarship year. These awards will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean/Director/Head of the respective Faculty or School.

The Lyndsey Anne Antle Award in Social Work

This award is being established by the family of Lyndsey Anne Antle who was a student in the School of Social Work at Memorial University of Newfoundland and would have graduated on May 26, 2006. Unfortunately this did not happen. She was struck by a vehicle on June 19, 2005 and passed away as a result of severe injuries on June 22, 2005. Lyndsey strived for excellence in everything she did and truly believed in giving her all to work, family, friends and anyone who needed a helping hand. Her natural wisdom, warmth and strong conviction to helping others made her a great human being and she would have made a wonderful social worker. This award is valued at \$300.00 and will be awarded annually to the student in the graduating class who has the highest average for years four and five of the Social Work program combined. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Social Work.

The Jackie Brown Memorial Social Work Scholarship

This scholarship has been established in the memory of Jackie Brown, a dedicated social worker who was an activist for social justice. Valued at \$500.00 annually, it will be awarded to a full time undergraduate social work student who best epitomizes Jackie's commitment and energy to creating positive change related to a social justice issue in his/her community. The award, however, is not necessarily intended for the student with the highest academic standing. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Social Work.

The Christopher & Donna Cox Scholarship

This scholarship, established through a generous contribution by Dr. Donna Hardy Cox and Dr. Christopher Cox, is valued at \$500 per annum. Drs. Donna Hardy Cox and Christopher Cox, both alumni of Memorial University of Newfoundland, have established this scholarship in gratitude for their well-rounded student life and academic experiences. To be eligible, candidates must be full-time

undergraduate students. The scholarship will be awarded annually on a rotating basis between the School of Social Work and the Faculty of Medicine, beginning with the latter. In Medicine, the Scholarship will be awarded to a graduating M.D. student who has a strong academic record and who has expressed an interest in specializing in Oncology. In the School of Social Work it will be awarded to a graduating B.S.W. student who is in scholarship standing and who has made the greatest contribution to student and community leadership. The Scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based on the recommendation of the Dean/Director of the appropriate discipline.

The Memorial University of Newfoundland Social Work Scholarship

This scholarship, at a value of at least \$350.00, is awarded annually to a Social Work major enrolled in full-time study at Memorial University of Newfoundland. In the awarding of this scholarship, scholastic standing and financial need will be taken into account. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Social Work and may be renewed in a subsequent year.

The Professor John S. Morgan Scholarship

This scholarship has been named to honour the late Dr. John S. Morgan, an honorary graduate of the University who served as Visiting Professor of Social Work during the 1976-77 academic year. It is valued at \$500.00 per annum and will be awarded on the basis of academic merit to an undergraduate student enrolled in the School of Social Work. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the School.

Rick Morris Memorial Bursary

This bursary was established in memory of Rick Morris by his family and friends. Rick was a caring individual who was deeply committed to Newfoundland and worked with a variety of individuals, organizations, and government. He was a mentor to many helping professionals, who regularly sought his counsel on personal and professional issues. He was deeply concerned with violence against individuals, particularly women, children, and the survivors of Mount Cashel. He was involved in the establishment of Unified Family Court's mediation services and frequently collaborated with the aboriginal and senior's communities. The bursary, valued at a portion of the income from the endowment, will be awarded annually to a student who is in financial need and meets the minimum academic requirements for a bursary. It will be awarded on a rotating basis to a student enrolled in one of the following academic areas: Year 1- School of Social Work, Year 2- Faculty of Education, Year 3- School of Human Kinetics and Recreation, Year 4- Department of Gender Studies and Year 5- School of Nursing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Unit for which the bursary is being awarded.

The John J. Murphy Scholarship in Social Work

This scholarship, valued at \$500.00, is awarded annually to a student who has achieved academic excellence upon completion of the first year of the Social Work program. The award, however, is not necessarily intended for the student who has received the highest average in this category. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Social Work.

The Elizabeth A. Newlands Memorial Scholarship in Social Work

This scholarship has been named to honour the late Mrs. Elizabeth Newlands, one of the first graduates of the B.S.W. Program at Memorial University of Newfoundland. Valued at a minimum of \$1,000.00 annually, it will be awarded on the basis of academics to either a graduate or undergraduate student enrolled in the School of Social Work. If granted to an undergraduate the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. If awarded to a Graduate Student, it will be awarded by the Dean, School of Graduate Studies. In either case the scholarship will be awarded on the basis of an appropriate recommendation from the Dean, School of Social Work.

The Dr. J. Victor Thompson Scholarship in Social Work

This scholarship, valued at not less than \$650.00 is awarded annually to a full-time Social Work student upon completion of at least 90 credit hours in Social Work and other courses at Memorial University of Newfoundland. The award will be made on the basis of academic excellence by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of the Dean, School of Social Work.

5 Scholarships, Bursaries, and Awards Administered By the Senate Committee on Undergraduate Scholarships, Bursaries and Awards for Which Undergraduate Students Attending the Grenfell Campus at Corner Brook May Qualify

Although students on the Corner Brook campus are eligible for other awards listed in this Calendar, the following awards are tenable specifically at Grenfell Campus:

The Fred Aldrich Science Scholarship

This scholarship, established by the Corner Brook and Area Branch of the Alumni Association of Memorial University of Newfoundland, is awarded annually to a student at Grenfell Campus who is in the fourth semester of full-time study, who has accumulated at least 45 credit hours, and who is registered in a science program at Memorial University of Newfoundland. The scholarship may be held at either Corner Brook or St. John's. Valued at \$1,000.00, the award is made on the basis of outstanding academic performance. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus and the Head of Science at the Campus.

Belize Travel Award

This award, valued at \$1000 for study in Belize, has been established by Dr. Michael Newton. This award is open to students enrolled at the Grenfell Campus of Memorial University who wish to gain international experience by doing university or field courses in Belize. Students should be beyond their 1st year of study, meet the minimum academic requirements of clear standing and be recommended by the faculty in their area of study. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the scholarship committee at Grenfell Campus in consultation with faculty.

Marcella M. Besaw Memorial Award for International Students

This award has been established by the family of Marcella M. Besaw. Mrs. Marcella Besaw (1953-2010) often opened her home to international students at Grenfell Campus where her son attended, and treated them as extended family. It is valued at \$200.00 annually and will be awarded to a full-time international student beyond their first year of studies at Grenfell Campus. The recipient would have demonstrated an involvement in student life, both within the international student community and with the overall student body. The students must meet the minimum academic requirements for an award as defined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the scholarship committee at Grenfell Campus.

The Katy Bindon Scholarship

This scholarship, one or more valued at \$1,000.00 each annually, was created by friends of Dr. Katy Bindon with the assistance of the local branch of the Memorial University of Newfoundland Alumni Association and colleagues at Grenfell Campus. It was created to mark the contribution that Dr. Bindon made at the college during her tenure as its Principal from 1991-1997. The scholarship is to be awarded to a student entering his or her fourth year in any degree program offered at Grenfell Campus. The recipient should have combined academic excellence with an outstanding contribution to student life at Grenfell Campus. The scholarship is to be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus.

The Breakwater Folklore/Folklife Series Award

The Breakwater Books Folklore Prize is awarded annually for outstanding student performance in undergraduate folklore courses at Grenfell Campus. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head of Social Science at the Campus in consultation with Folklore Faculty.

Edward P. Browne Scholarship

This scholarship was established by individual members of faculty, staff and student body of Grenfell Campus in memory of the late Edward P. Browne. Professor Browne was Co-coordinator of Physical Education and Recreation at Grenfell Campus from its opening until his death in 1982. The scholarship is open to all full-time students who have spent at least two semesters at Grenfell Campus. It is awarded on the basis of academic standing, participation in college life and may include financial need. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on recommendation from the Grenfell Campus. The value of the award will be determined from the interest accrued on the principal sum donated.

The CA Western Newfoundland Scholarship

This scholarship, valued at \$500 annually, has been established by the CA Western Club of Western Newfoundland. The recipient will be the student with the highest grade point average who has completed the first year of studies in any program at Grenfell Campus, Memorial University of Newfoundland and is accepted into either the Bachelor of Commerce program in St. John's or a B.B.A. program in St. John's or Corner Brook. S/he must also meet the minimum academic requirements for a scholarship as defined by the University. The scholarship will be administered by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the scholarship selection committee at Grenfell Campus.

Canadian Coast Guard Newfoundland Region Alumni Association Bursary

This Bursary is made possible by the Canadian Coast Guard Alumni. Valued at \$500.00 annually, it will be awarded to a 2nd year Visual Arts student who excels in drawing and painting. Financial need will also be taken into consideration. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee of Grenfell Campus in consultation with the Head, Division of Fine Arts.

Canadian Society for Chemistry Silver Medal

This medal is presented annually to the student at Grenfell Campus with the highest average in third-year Environmental Chemistry courses. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of Science at the Grenfell Campus.

The Nicola Carlson Memorial Award

The Nicola Carlson Memorial Award is presented in honour of Mrs. Nicola Carlson, a Memorial University of Newfoundland alumnus and Grenfell Campus employee. The award will be presented annually to a Western Regional School of Nursing student who has demonstrated skills in or has expressed a desire for future education in the fields of oncology nursing or palliative care nursing. The student must meet the minimum academic requirements for an award. The award is presented by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Director of the Western Regional School of Nursing.

The Chancellor's Undergraduate Award Grenfell Campus

This award is given at the Grenfell Campus Convocation to the student of the graduating class who has demonstrated the greatest leadership contribution to undergraduate student life and other areas of the community during his or her university years at the Grenfell Campus. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Vice-President, Grenfell Campus in consultation with the University President.

The City of Corner Brook J.R. Smallwood Scholarship

This scholarship was established in 1991 by the City of Corner Brook to honour the Honourable Joseph R. Smallwood, first Premier of Newfoundland, who contributed significantly to the educational and cultural development of Newfoundlanders. This fund, donated by the City is a tangible mark of the support given by the City to Grenfell Campus since the Campus opened in Corner Brook. The scholarship valued at \$1,000.00 will be awarded to a student who is a resident of the City of Corner Brook in the final year of high school who is proceeding to Grenfell Campus. The award will be made, upon application, to a student of outstanding academic merit and promise who has demonstrated active participation in school and community life. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, acting on the recommendation of a special selection committee appointed by the Principal, with a representative from City Council.

Corner Brook Pulp and Paper Limited Scholarships

From funds donated annually by Corner Brook Pulp and Paper Limited, a number of scholarships are available to students attending Grenfell Campus, valued from \$250.00-\$500.00 each, available to students in any faculty or year of study. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at the Grenfell Campus.

The Cottage Crafts Association Scholarship

This scholarship is supported by the interest on \$5000.00 donated by Cottage Crafts Association, Corner Brook. It is awarded to a student in Fine Arts at Grenfell Campus. Preference will be given to a student with an interest in fibre arts, including costume design, textile design or textile manufacturing. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Grenfell Campus.

Decker Family Environmental Scholarship

This scholarship was established by the Decker Family. The scholarship, valued at \$1,000 will be awarded annually to a student enrolled at Grenfell Campus either in the Bachelor of Science program in Environmental Science, the Bachelor of Arts program in Environmental Studies, or the Bachelor of Resource Management program in Sustainable Resource Management. Students must meet the minimum academic requirement for a scholarship. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Grenfell Campus Scholarship Committee.

Division of Fine Arts Mercy/Presentation Education Fund Award

These awards, valued at between \$1000 and \$2000, have been established by the Mercy/Presentation Education Fund to assist students with extra-curricular projects that will enhance their education. These awards are open to students enrolled at the Grenfell Campus of Memorial University of Newfoundland in the Visual Arts or Theatre Arts program. Students must have clear academic

standing and complete an application. Applications will be available at the Scholarship's Office, Grenfell Campus. The awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head of Division, Chair of Visual Arts and Chair of Theatre Arts and the scholarship committee at Grenfell Campus.

The James Alexander Doull Memorial Scholarship in Humanities

This scholarship was established by Professor Floy Andrews Doull, to honour the memory of James Alexander Doull, teacher, colleague and friend. This scholarship, valued at a portion of the annual accrued interest, will be awarded annually to a student registered full-time in the Humanities Program at Grenfell Campus. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Chair of Humanities, Grenfell Campus.

Craig Dobbin Memorial Scholarship for Master of Business Studies at the Waterford Institute and Memorial University of Newfoundland

This scholarship has been established by Mr. Pat O'Callaghan, the Ireland Business Partnership, the Ireland Newfoundland Partnership, the Provincial Department of Education, and Craig Dobbin family members in memory of Mr. Craig Dobbin. It will be awarded on an annually rotating basis to students at The Waterford Institute of Technology (WIT) and Memorial University of Newfoundland. In year one, and every alternating year thereafter, the scholarship will be awarded to a recent honors graduate (in the past 2 to 3 years) of one of the undergraduate business programs in the Faculty of Business Administration program or Grenfell Campus, Memorial University of Newfoundland who is accepted into the Master of Business program, at the Waterford Institute of Technology, Waterford, Ireland. In the event that there is no such candidate, the scholarship will be awarded to two Memorial University of Newfoundland exchange students (undergraduate or graduate) to study (one academic term) at the Waterford Institute of Technology. In year two, and every alternating year thereafter, the scholarship will be awarded to an undergraduate student from the Waterford Institute of Technology who will be selected to attend Memorial University of Newfoundland's Faculty of Business Administration's M.B.A. program. In order for a WIT student to complete the program in one year, they must have an honors undergraduate business degree, or a business degree with significant academic standing. The student must meet Memorial University of Newfoundland's M.B.A. admission requirements. The student may take two years to complete the degree; however, scholarship funding will be available for one year only. In the event that no such student is selected from the Waterford Institute, then WIT will select a business undergraduate or graduate student to complete a student exchange (one academic term) at the Faculty of Business Administration or Grenfell Campus, Memorial University of Newfoundland. Scholarship recipients will be required to complete and present a report on an aspect of the Ireland Newfoundland Partnership. In the case of Memorial University of Newfoundland undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration or the Vice-President of Grenfell Campus. In the case of Memorial University of Newfoundland graduate students, the scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Business Administration.

Dr. Wynanne Downer Bursary for Women

This bursary was established by the Canadian Federation of University Women, Corner Brook Club, in memory of Dr. Wynanne Downer who was a founding member. The bursary, valued at a portion of the income from the endowment, will be made to a female student who graduated from a high school in Newfoundland and Labrador and who is pursuing a degree at Grenfell Campus. Preference will be given to a female student who entered university as a mature student (twenty-one years or older), who is beyond her first year of studies, is in financial need and meets the minimum academic requirements for a bursary. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus. Applications will be available at Student Services, AS232, Grenfell Campus and/or may be downloaded from the CFUW Corner Brook website.

The Environmental Science Merit Scholarship

One Merit Scholarship, valued at \$2,500.00 annually will be awarded to an outstanding student entering the fourth year of the Environmental Science program at Grenfell Campus. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Chair of Environmental Science, Grenfell Campus.

Duncan A. Ferguson Prize in Psychology

This prize was established by family, friends and colleagues in memory of Dr. Duncan A. Ferguson. It will be awarded annually to a student in his/her final year of a Psychology program at Grenfell Campus. The chosen student will have demonstrated strong academic performance and have contributed to the spirit of student life within the Psychology program. This prize, valued at \$500, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Chair, Psychology program, Grenfell Campus, in consultation with the Psychology faculty and the Ferguson family.

The Madeline Fowler Prize in English

This prize, valued at \$200.00, is in memory of Madeline Fowler. The prize is normally awarded to a senior student in the B.A. Specialization in English engaged in full-time studies at Grenfell Campus. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Program Chair of English at the Grenfell Campus.

The Dr. G.A. Frecker Memorial Alumni Bursaries

The Memorial University of Newfoundland Alumni Association has established, from its Annual Fund, five bursaries named in honour of the late Dr. G.A. Frecker, Chancellor, Memorial University of Newfoundland, 1971-79, and valued at \$500.00 each. Four of the bursaries are tenable at the St. John's campus and one at the Grenfell Campus at Corner Brook. The bursaries will be awarded annually to full-time students in any faculty or year on the basis of academic standing and financial need.

The Joanne Swan Greenlee Prize in Historical Studies

This prize, valued at \$500.00 will be awarded in memory of Joanne (Swan) Greenlee, who, for two decades, delighted in the hearty appetites and lively conversation of Grenfell Campus students who gathered to discuss history at her home. It will normally be awarded to a full-time senior student, at Grenfell Campus, majoring in Historical Studies who displays outstanding cumulative merit in four History courses during the academic year. This prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Chair of Historical Studies.

Grenfell Campus, Memorial University of Newfoundland and Labrador Residence Scholarship

This scholarship, valued at \$500.00, is available to a student who has spent at least two semesters in residence at the Grenfell Campus. Academic performance and contribution to college life will be the main criteria for choosing the recipient. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Scholarship Committee at Grenfell Campus.

Grenfell Campus, Memorial University of Newfoundland and Labrador Scholarship Fund

Funds are available for the purpose of providing scholarships to students at Grenfell Campus. The scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at the Grenfell Campus. Financial need may be taken into account when making the awards.

The Rufus Guincharde Entrance Scholarship

This scholarship has been established by the Newfoundland government in honour of the late Rufus Guincharde. The award, valued at \$2,000.00, is presented annually to a student entering Grenfell Campus, who has demonstrated a commitment to the preservation of Newfoundland heritage and culture. This commitment may be reflected in Newfoundland music, folklore, art or writing. Applicants for the Rufus Guincharde Scholarship should submit, with their application, either a statement of their interests relevant to this scholarship, or a completed piece of work. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, based upon the recommendation of the Scholarship Committee at Grenfell Campus.

The Ida Harvey Scholarship

This scholarship, in memory of Ida Harvey, is supported by a fund established in 1988 on the occasion of the opening of the Fine Arts Building. It is awarded on merit to any student in a Bachelor of Fine Arts Program by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus.

Historical Studies Merit Award

This book prize is awarded to a student who has made an outstanding contribution to the life of the Historical Studies Program at Grenfell Campus. The faculty of that program will fund the prize. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Historical Studies Faculty.

The E.J.F. Hodgett Scholarship in Science

This scholarship was established by friends and colleagues of Professor Ferriss Hodgett on the occasion of his retirement, in celebration of his outstanding contributions and service to Memorial University of Newfoundland, and in particular Grenfell Campus. Professor Hodgett, a native of Belfast, in the north of Ireland, served as Vice-Principal of Grenfell College from 1975-1992. This scholarship, valued up to two semesters' tuition, will be awarded to the student entering second year at Grenfell Campus who has attained scholarship standing and has received the second highest overall average in his/her first year having completed at least four courses in the Natural Sciences. The award shall be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on recommendation of the Scholarship Committee of Grenfell Campus.

The Gervase C. Hollander Prize in Biology

This prize was established in 1982 by Mrs. Hollander in memory of her husband, a former teacher and school supervisor with the Humber-Bay St. George Roman Catholic School Board. Valued at approximately \$100.00, it is awarded annually to a second-year student who has completed three or more courses in Biology beyond the first year and who have demonstrated excellence and initiative in both the theoretical and practical aspects of Biology. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of Science at Grenfell Campus.

Husky Energy SeaRose Bursary

The bursary is made possible through a generous donation from Husky Energy, as operator of the White Rose Project, in recognition of the donation of art work by Grenfell Campus's Fine Arts students. The art work is displayed on the FPSO (Floating Production Storage and Offloading) vessel the *SeaRose*. The bursary is being established to provide travel funding to students who, for financial reasons, would not otherwise have the opportunity to travel. Valued at \$2,000.00 annually, it will be awarded on a rotating basis between Visual Arts and Theatre Arts students attending Harlow Campus. To be eligible to receive the bursary students must have clear standing and demonstrate artistic merit and financial need. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus in consultation with the Head, Division of Fine Arts.

The Imperial Tobacco Canada Fine Arts Scholarship

This scholarship, established in 1998 by Imperial Tobacco Canada in support of the *Opportunity Fund* Campaign, has a minimum value of \$2,000.00 annually. It will be awarded on the basis of scholarship standing to a full-time student in the Bachelor of Fine Arts who shows promise and plans to continue in the field. It will rotate annually between the disciplines of Visual and Theatre Arts. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus in conjunction with the Head, Division of Fine Arts.

The F.L. Jackson Award in Philosophy

F.L. Jackson taught Philosophy at Memorial University of Newfoundland for twenty-nine years, for nine years serving as Head of the Department. Professor Jackson conceived the Department of Philosophy as a window on the grand tradition of philosophy, especially for Newfoundlanders, and it is this spirit which animates philosophy at Grenfell Campus. The F.L. Jackson Award will be given to students whose written work is distinguished by its appreciation of the history of philosophy. Generally there will be one award granted per academic year. It will be valued at a minimum of \$100 and will be awarded to a student in any year of study. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus and in consultation with the Philosophy faculty.

The Olof Lindgren Scholarship

This scholarship, the value of which will be determined by the annual interest accrued, is supported by a fund established by Dr. Orvil Olsen, a former Professor of Biology at Grenfell Campus, in memory of his grandfather Olof Lindgren, a Saskatchewan pioneer farmer, who was a firm believer in the value of education as a means of enhancing the quality of life. It is awarded to a student who has completed at least two years at Grenfell Campus and plans to proceed with the full degree on that campus. In awarding the scholarship, preference will be given to a student who has shown an interest in both the natural and physical sciences, and the arts. This award is based upon academic excellence. This scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus.

The William and Naomi Lundrigan Scholarship

The William and Naomi Lundrigan Scholarship shall be awarded to an entrance student attending Grenfell Campus, Corner Brook. Two scholarships valued at a portion of the income on the endowment will be awarded annually. The recipients must meet the minimum academic requirements for a scholarship as defined by Memorial University of Newfoundland and consideration may be given to financial need. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Selection Committee at the Grenfell Campus.

The Kathleen Wagstaff MacCallum Memorial Scholarship

This scholarship, was established by the MacCallum family in honour of their mother, Kathleen. Valued at the annual interest, it will be awarded to a Fine Arts student beyond first year at Grenfell Campus who is specialising in Visual Arts. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Scholarship Committee at Grenfell Campus in consultation with the Head, Division of Fine Arts. Factors such as financial need, family and community involvement, and contribution to the class may also be taken into account.

Colin Macnee Award for Drawing

This Award, in memory of Colin Macnee (1959-1989) was established by his family as a tribute to his life and work. He is remembered by friends and fellow artists for the unique and positive way he reached out to people as both an individual and an artist. Educated in

Britain and Newfoundland, he worked in St. John's up until the time of his death. Examples of his art can be found in private and public collections, including those of Memorial University of Newfoundland (through MUN Art Gallery) and the Government of Newfoundland and Labrador's Art Bank. It will be awarded to a student who has completed their first year of the BFA (Visual Arts) program at Grenfell Campus and, in the opinion of the awards committee for visual arts (where possible including a visiting artist), has demonstrated achievement in self-expression through the medium of drawing. The Award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell campus.

The Maxim Mazumdar Memorial Scholarship in Theatre

This scholarship is supported by a fund established by Theatre Newfoundland and Labrador in memory of Maxim Mazumdar, founding Artistic Director of T.N.L. It is awarded to a Grenfell Campus student who has completed the first year in the Theatre Degree Program and who has shown the most promise in any area of the Program. This scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus.

The Dr. M.O. and Grace Morgan Scholarship in Fine Arts

This scholarship is the result of an endowment to Memorial University of Newfoundland from the estate of Dr. and Mrs. Morgan. Valued at a portion of the annual accrued interest, it will be awarded to a Fine Arts student beyond first year at Grenfell Campus. It will rotate annually between Visual Arts and Theatre Arts. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Scholarship Committee at Grenfell Campus in consultation with the Head, Division of Fine Arts.

The Maxwell and Emily Mullett Scholarship

This scholarship is supported by the interest on monies donated by Maxwell and Emily (Wicks) Mullett. It is awarded to a student in the final year of studies in Visual Arts at Grenfell Campus on the basis of achievement and promise. Preference is given to Newfoundland and Labrador students. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus.

The Orvil Olsen Biology Prize

This prize was established to commemorate the tenth anniversary of the opening of Grenfell Campus. It is valued at approximately \$100.00 annually. Dr. Olsen taught Biology at the College from its opening until his retirement in 1980. The prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head of Science at Grenfell Campus to an outstanding student of first year Biology.

The Florence O'Neill Scholarships

An endowment donated to the University by Florence O'Neill, Ed.D., C.M., LL.D., honorary graduate of Memorial University of Newfoundland, distinguished for her contribution to the fields of adult education and community development, will fund annual scholarships valued up to \$1,000.00 each. These awards will be made available to full-time undergraduate students, preferably to those from rural Newfoundland and Labrador, on the basis of scholarship standing. One shall be given annually to a student attending the Grenfell Campus in Corner Brook.

The Raymond J.G. Pafford (1937-1997) Memorial Scholarship

This scholarship, established in 2000 by Mrs. Roberta Pafford, in memory of her husband Raymond, is valued at the annual interest on an endowment. It will be awarded on the basis of scholarship standing to a full-time student in any year of study of the Bachelor of Fine Arts program who shows promise and plans to continue in the field. It will rotate annually between the disciplines of Theatre Arts and Visual Arts. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus in conjunction with the Head, Division of Fine Arts.

The Palliser Prize in History

This prize is in honour of Captain Hugh Palliser, RN, Governor and Commander-in-Chief at Newfoundland from 1764 until 1768; in 1764 he became the first governor to visit western Newfoundland. It is awarded annually to a full-time student beyond first year who has earned no more than 90 credit hours and has earned the highest cumulative average in at least five History courses. This student would normally be studying towards a degree or minor in Historical Studies. The prize is valued at \$250.00 and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus and the members of the Historical Studies program. In the event that no student qualifies in any given year the award will not be given.

The Pausanias Award in Classics for Study Abroad

Named for the second century traveller and geographer, this award is available to students at Grenfell Campus who enroll in field study courses in the culture, history and/or civilization of ancient Greece or Rome. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus in consultation with the Head, Division of Arts at the Campus.

Al Pittman Harlow Travel Award

The Al Pittman Harlow Travel Award has been established in his memory by Al Pittman's friends and family. Mr. Pittman was one of Newfoundland's most esteemed poets and playwrights and he believed that observing the different helps us to see the familiar in a new light. Therefore, travel, in enabling us to experience a different place, culture and context, has the power to heighten and enhance our perspective of home. The award will go to a student in the fourth year of study in the Theatre Program at Grenfell Campus who best exhibits a passion for and commitment to theatre, as well as an appreciation of place and how physical and cultural landscape can impact perspective, and who meets the minimum academic requirements for an award. The Award will be made at the beginning of the semester in which the student is scheduled to depart for England (for approved study at the Harlow campus) and will be valued at a portion of the income on the endowment. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Program Chair, Theatre and the Scholarship Committee at Grenfell Campus.

The C.F. Poole Scholarship

This scholarship was established from funds donated by friends of Dr. Cyril F. Poole on the occasion of his retirement as Principal of Sir Wilfred Grenfell College. Dr. Poole, a native of Pilley's Island, Notre Dame Bay, was committed to excellence throughout his distinguished career as a university teacher and administrator in several Canadian universities including Sir Wilfred Grenfell College, where he served as Principal from 1977 to 1990. The scholarship honouring his contribution to excellence in education will be awarded annually to a Sir Wilfred Grenfell College student of outstanding academic merit and promise. Valued at approximately \$1,000.00, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on recommendation from Grenfell Campus.

The James C. Pratt Memorial Scholarship

This scholarship, valued at a minimum of \$1000.00, has been established in memory of James C. Pratt by his daughter, Mrs. Daphne L. House. The scholarship is to be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Program Chair of Visual Arts at Grenfell Campus, to a full-time student in the discipline of Bachelor of Fine Arts (Visual Arts) who shows promise and purpose of continuing in that field.

The Refreshments Canada Scholarship

This scholarship, donated by the soft drink industry of Newfoundland and Labrador, is valued at \$2,000.00 and will be awarded annually to an outstanding full-time student beyond first year of the Environmental Science Program at Grenfell Campus. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the Basis of scholarship standing and a recommendation from the Scholarship Committee at Grenfell Campus in consultation with the Chair of Environmental Science.

The Royal Canadian Legion Branch 13 Grenfell Campus Bursary

Established by the Royal Canadian Legion, Branch 13, the bursary will be awarded to an undergraduate student in any program at the Grenfell Campus of Memorial University of Newfoundland. The student must be in financial need and meet the minimum academic requirements for a bursary. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Scholarships Committee of the Grenfell campus of Memorial University of Newfoundland.

The Francis J. Ryan Memorial Scholarship

This fund was established by the Stewart McKelvey Stirling Scales law firm in memory of their late senior partner Francis J. Ryan. Valued at the annual interest on the endowment, the award will be made to a Fine Arts student specializing in Visual Arts at Grenfell Campus. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Scholarship Committee at Grenfell Campus in consultation with the Head, Division of Fine Arts. Financial need may be taken into account.

The Tommy Sexton Triple Threat Award

This Award has been established by the Tommy Sexton Project Inc., founded by the Sexton family. Tommy Sexton was one of the founding members of the award-winning comedy troupe, CODCO. This Award was established to celebrate and acknowledge his great ability as what is known in business as a Triple Threat. The Award will be valued at a minimum of \$500 and presented annually during the final theatre performance. Eligible students will be enrolled in the fourth year of the Bachelor of Fine Arts (Theatre) program at Memorial University of Newfoundland, Grenfell Campus. The recipient will have demonstrated exceptional skills in singing, dancing and acting as determined by the Chair and Faculty of the Theatre Program. Recipients must meet the minimum academic requirements for an award as defined by the University. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Selection Committee at the Grenfell Campus.

The Short Family Harlow Award

This award was created to assist students to travel to and study at Memorial University of Newfoundland's Harlow Campus in the United Kingdom. Four awards valued at \$1250 each for any program of study will be awarded annually. This award is open to students enrolled at either the St. John's Campus or the Grenfell Campus of Memorial University of Newfoundland. To be eligible, students must be planning to attend the Harlow Campus for at least one full term and must have graduated from a high school in Newfoundland and Labrador. Financial need will be considered. Recipients must meet the minimum academic requirements for an award as defined by Memorial University of Newfoundland. Application for this award can be made at the same time as application is made to the program at the Harlow Campus. Students will be notified if they are successful in their application for this award prior to accepting the placement at Harlow Campus; however, receipt of the award is contingent on acceptance into the program. A faculty nomination letter must accompany the award application form. Application forms are available in person or by writing the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by telephone to (709) 864-3956, or on the Harlow Campus web site at www.mun.ca/harlow. The award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Harlow Scholarship Committee.

The Sisters of Mercy Anniversary Scholarship

This scholarship was established by the Sisters of Mercy to commemorate the 100th anniversary of the arrival of the sisters on the west coast of Newfoundland in 1893. The Sisters of Mercy, educators in Newfoundland since 1842, have been associated with Memorial University of Newfoundland since the University was established. The scholarship valued at a minimum of \$1,000.00 will be awarded annually to a student from Western/Northern Newfoundland or Labrador entering Grenfell Campus with full-time status. Academic standing and promise will be the main criteria. Consideration may be given to candidates' financial circumstances. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Scholarship Committee at Grenfell Campus.

John A. Snow Prize in Mathematics

This prize, in memory of John A. Snow, will be awarded to a student attending Grenfell Campus beyond their third year of studies, who has excelled in a number of Mathematics courses. The prize of \$200.00 will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards in consultation with the Mathematics professors of Grenfell Campus.

The Honourable P. Lloyd and Elizabeth Soper Scholarship

This scholarship is provided from a fund established by the Honourable P. Lloyd and Elizabeth Soper. It will be awarded to a student at Grenfell Campus who has completed his or her first year of studies and is continuing as a full-time student at the Campus for the second year. The scholarship, valued at a minimum of \$1000.00, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and upon the recommendation of the Scholarship Committee at Grenfell Campus.

The Sun Life Financial Scholarship in Applications of Technology

The Sun Life Financial Scholarship in Applications of Technology is consistent with the company's belief that education is key to the future well-being of individuals, business and society. The scholarship, valued at the annual interest on the endowment, will be designated on an annually rotating basis to a student on the Corner Brook campus and the St. John's campus. It will be awarded to a student within the faculties of Science, Engineering and Applied Science and Business Administration who is focussing his/her studies on the application of technology and has demonstrated scholarship standing. In addition, the student will have actively participated in extra-curricular activities and have been active in student life. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the appropriate Dean and/or the Vice-President of Grenfell Campus.

The Visual Arts Entrance Scholarship

This scholarship, established by the Corner Brook and Area Branch of the Alumni Association of Memorial University of Newfoundland, is awarded annually to a student commencing first-year studies in the Visual Arts Program of the Bachelor of Fine Arts at Grenfell Campus. Valued at \$500.00, the award is made on the basis of previous academic performance and the quality of the portfolio submission. This scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus.

The Wabush Mines Fine Arts Travel Bursary

These bursaries are the result of an endowment to Memorial University of Newfoundland from Wabush Mines as part of their contribution to *The Opportunity Fund*. Valued at the annual interest on the endowment, they will support Fine Arts students at Grenfell Campus wishing to travel and gain exposure to Visual and Performing Arts. They will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of academics, financial need and a recommendation from the

Scholarship Committee at Grenfell Campus in consultation with the Head, Division of Fine Arts.

The Dr. Harriet Ware Memorial Scholarship in Fine Arts

This scholarship, valued at the annual interest on the initial endowment, is supported by a fund established by Martin Ware in memory of his mother, Dr. Harriet Ware. It will be awarded to a Grenfell Campus student who has completed the third year of a Bachelor of Fine Arts program in Theatre and is continuing in that program. The scholarship will be awarded to a student with scholarship standing who has also maintained at least a 70% average in non-theatre courses in their overall academic performance. Preference may be given to a single parent. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Scholarship Committee at Grenfell Campus.

The Alan and Patricia Wright Psychology Conference Travel Bursary

This award was established by Dr. Sandra Wright in memory of her parents, Alan and Patricia Wright, both former educators who believed strongly in the importance of education. Applications will be available through Psychology Faculty members in January of each year. It will be given annually to a fourth year Psychology major engaged in full-time studies at Grenfell Campus. The purpose of the award is to offset the cost of travel to a Psychology conference (for example APICS, CPA or CSBBS). Funds must be used for travel to and from a conference in the year it is awarded. Valued at \$700, one award is available each academic year. Applications will be read and the recipient chosen by Psychology faculty at Grenfell Campus based on academic performance in Psychology courses and the merit of the proposal. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Program Chair, Psychology and the Scholarships Committee at Grenfell Campus.

Dr. James A. Wright Memorial Scholarship

One annually funded scholarship is established by a gift from Leprechaun Resources Ltd. in memory of Dr. James A. Wright, former professor in the Department of Earth Sciences. The scholarship, valued at \$1,000, is available to full time undergraduate students in their second year of study at Memorial University of Newfoundland with a preference for students enrolling at Grenfell Campus. To be eligible, students must meet the minimum academic requirements for a scholarship and must have graduated from a high school on the West Coast of Newfoundland, as defined by the University. Preference will be given to students pursuing any area of study within the Faculty of Science or the Faculty of Engineering and Applied Science. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

6 Convocation Awards

Convocation Medals and Awards are given at the Spring Convocation each year however, students who graduated at the previous Fall Convocation will also be considered for these awards. The "scholarship year" shall be defined as "May 1-April 30".

Governor-General's Medals

Two Governor-General's Medals are awarded at Convocation: the Gold Medal to the graduate student who achieves the highest academic standing in his/her Graduate degree program; and the Silver to the undergraduate student obtaining a first degree who stands highest in the graduating class and has an average of first-class standing.

University Medals for Academic Excellence (St John's)

University Medals for Academic Excellence are given in the graduating year to candidates for Bachelor's degrees who are recommended by the appropriate Dean or Department Head of each of the following: Anthropology, Archaeology, Behavioral Neuroscience, Biochemistry, Biology, Business Administration, Canadian Studies, Chemistry, Classics, Computer Science, Communication Studies, Drama and Music, Earth Sciences, Economics, Education (Primary/Elementary, Intermediate/Secondary, Post-Secondary, Native and Northern, Music), Engineering (Civil, Computer, Electrical, Mechanical, Ocean and Naval Architectural, Process), English, Folklore, French, Gender Studies, Geography, German, History, Kinesiology, Linguistics, Mathematics, Medicine, Medieval Studies, Music, Nursing (B.N. and Post-RN), Pharmacy, Philosophy, Physical Education, Physics, Police Studies, Political Science, Psychology, Recreation, Religious Studies, Russian, Social Work, Sociology, Sociology/Anthropology, and Spanish.

University Medals for Academic Excellence (Grenfell Campus)

University Medals for Academic Excellence are given in the graduating year to candidates for Bachelor's degrees who are recommended by the Head of the Division of each of the following: Business Administration, English, Environmental Science, Environmental Studies, General Science, Historical Studies, Humanities, Psychology, Social/Cultural Studies, Theatre Arts, Tourism Studies, and Visual Arts.

The University Medal for Excellence in an All-Course Master's Program

The medal is awarded by the Dean of Graduate Studies to a student graduating at the Master's level who has demonstrated academic excellence in course work throughout his/her graduate program. One medal may be awarded in each academic year.

The University Medal for Excellence in a Thesis Based Master's Program

The medal is awarded by the Dean of Graduate Studies to a Master's candidate who has demonstrated excellence in the production of a thesis. One medal may be awarded in each academic year.

The Advisory Board Chair's Leadership Award

This award, established by the Advisory Board of the Faculty of Business Administration, is to be presented annually to the graduating business student (undergraduate) who has demonstrated the most chairperson-like characteristics through leadership in student affairs and service to the community during his or her university years. The award will be made by the Dean of the Faculty, on the advice of his colleagues, and in consultation with the Chair of the Advisory Board.

Association of Registered Nurses of Newfoundland and Labrador Award for Excellence in M.N. Program

The Association of Registered Nurses of Newfoundland and Labrador offers an annual award to three graduating students of the Master's of Nursing Program. One award will be given for the practicum route, one for the thesis route and one for the Nurse Practitioner route. For the practicum award, it will be based on a high quality practicum project as evaluated by the supervisor/co-supervisors. For the thesis award, it will be based on a high quality thesis as determined by review of both internal and external examiners. For the NP award, it will be based on recommendation of the program coordinator. In all cases the successful student must have achieved a minimum average of 75% in courses required for the program as well as hold an ARNLL license to practice. These awards are made at the annual Convocation. They will be awarded by the Dean, School of Graduate Studies based on a recommendation from the Dean, School of Nursing.

The Association of Registered Nurses of Newfoundland and Labrador Award of Excellence in the Bachelor of Nursing (Collaborative) and Bachelor of Nursing (Post-RN) Programs

The Association of Registered Nurses of Newfoundland and Labrador offers a \$200.00 Award of Excellence to two graduating students who have demonstrated excellence in nursing practice. One award will be given to a graduating student in the Bachelor of Nursing (Collaborative) program, and one to a graduating student in the Bachelor of Nursing (Post-RN) program.

The Austrian Ambassador's Prize

This prize, a book award, is to be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards

on the recommendation of the Head, Department of German and Russian, to a graduating student who has majored in German Language and Literature and has a consistently good academic record at the University.

The Captain Robert A. Bartlett Science Award

As a spontaneous expression of their admiration and affection for a man who has a lasting place in the history of polar exploration, the Explorers' Club of New York and two kindred organizations - the Wilderness Club of Philadelphia and the Harvard Travellers' Club of Massachusetts - donated a sum of money to this University, as a memorial to Captain Bartlett. The University has placed this money in a trust fund, the interest on which is the value of the award. It will be based primarily on academic excellence. Consideration may also be given to the demonstration of the spirit of scientific exploration. The award is made annually to a student graduating in Science, on the recommendation of the President.

The Brepols Book Prize in Medieval Studies

Brepols Publishing, Turnhout, Belgium, an international academic publisher with a very strong interest in medieval studies, has agreed to donate a prize consisting of a book to be selected from their current catalogue, to be awarded each year to an outstanding student graduating with Medieval Studies as a second major. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Co-ordinator of Medieval Studies. If in any year there is no outstanding candidate in the opinion of the Co-ordinator, it will not be awarded.

The Reginald H. Brown Q.C. Memorial Scholarship

The Reginald H. Brown Q.C. Memorial Scholarship is established at Memorial University of Newfoundland in memory of Reginald H. Brown, K. St. J., Q.C., through generous lead donations by Pamela Brown and Reg's colleagues at Cox & Palmer. Described as "a lawyer's lawyer", Reg Brown was a loyal friend and colleague who combined a very challenging and successful litigation practice with the leadership of his law firm as managing partner of Cox & Palmer, an Atlantic Canadian law firm established only two weeks before his death in early 2007. Reg balanced his demanding professional life and leadership in service of his profession and the community with the philosophy that family came first. The Reginald H. Brown Q.C. Memorial Scholarship is to be awarded at convocation to a student graduating from any area of study and accepted at law school. Selection will be made on the basis of academic excellence (with a minimum of scholarship standing) and demonstrated leadership qualities as epitomized by Reg in charitable, athletic, artistic or political endeavours, whether in student life or in the community at large. The scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

Dick Buehler Award in Theatre

This award is given to a student, at Spring Convocation, who has successfully completed all the Theatre courses or the requirements for the Diploma in Performance and Communications Media who will continue their training at an institution of higher learning or as an apprentice to an approved professional theatre or film company. Preference will be given to a student whose primary interest is in technical theatre. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Co-ordinator, Diploma In Performance and Communications Media.

The Faculty of Business Administration Advisory Board Bachelor of Business Administration Award for Excellence

This award, established by the Advisory Board of the Faculty of Business Administration, is to be presented annually to an outstanding student in the graduating class of the Bachelor of Business Administration program. The recipient will be selected based on a combination of academic performance, demonstrated leadership and general contribution within the program, the University, or the community. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the Faculty of Business Administration.

The Faculty of Business Administration Advisory Board B.Comm. (Co-op) Award for Excellence

This award, established by the Advisory Board of the Faculty of Business Administration, is to be presented annually to an outstanding student in the graduating class of the Bachelor of Commerce (Co-op) program. The recipient will be selected based on a combination of academic performance, demonstrated leadership and general contribution within the program. This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of the Faculty of Business Administration.

The Faculty of Business Administration Advisory Board M.B.A. Award for Excellence

This award, established by the Advisory Board of the Faculty of Business Administration, is to be presented annually to the outstanding student in the graduating class of the M.B.A. program. The recipient will be selected based on academic performance, demonstrated leadership and general contribution within the program. Selection will be made by the Scholarship Advisory Committee of the Faculty of Business Administration, acting on the advice of the Dean of the Faculty.

Faculty of Business Administration Dean's Award

These awards are made by the Dean of the Faculty, on the advice of his colleagues, to graduating students who have demonstrated academic excellence together with leadership qualities within the Faculty of Business Administration and/or the University.

Faculty of Business Administration Dean's MBA Award

This award is made by the Dean of the Faculty, on the advice of colleagues, to a graduating MBA student in recognition of academic excellence together with demonstrated leadership qualities in graduate student activities and service to the Faculty and/or the University.

The Canadian Association of Geographers (CAG) Award

The Canadian Association of Geographers (CAG) Award is given to the top student graduating with an Honours or General degree majoring in Geography in each university in Canada. The award at Memorial University of Newfoundland is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon a recommendation from the head of the Geography Department. Recipients receive a one-year membership in the association which includes a Subscription of *The Canadian Geographer*, a professional journal.

Canadian Society for Civil Engineering, CSCE, Newfoundland Section Convocation Award

Each year the local section of the Canadian Society for Civil Engineering awards a prize which consists of a certificate and \$200.00 cash to the top student graduating with a Bachelor of Engineering - Civil, from Memorial University of Newfoundland. The successful candidate will have demonstrated commitment, dedication and consistent performance in academic as well as work terms. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Canadian Society of Mechanical Engineering Medal for Academic Excellence

Each year the Canadian Society of Mechanical Engineering awards a medal and certificate for outstanding achievement to a graduating student in the baccalaureate program in Mechanical Engineering who also demonstrates commitment, dedication and consistent performance in academic as well as work terms. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Chancellor's Graduate Award

The Chancellor's Graduate Award is given at Convocation to the student of the graduating class who has demonstrated the greatest

leadership contribution to graduate student life and other areas of the community during his or her university years. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the President in consultation with the Deputy Provost (Students) and Associate Vice-President (Academic) Undergraduate Studies and the Dean, School of Graduate Studies.

The Chancellor's Undergraduate Award

The Chancellor's Undergraduate Award is given at Convocation to the student of the graduating class who has demonstrated the greatest leadership contribution to undergraduate student life and other areas of the community during his or her university years. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the President in consultation with the Deputy Provost (Students) and Associate Vice-President (Academic) Undergraduate Studies.

The Chancellor's Undergraduate Award Grenfell Campus

This award is given at the Grenfell Campus Convocation to the student of the graduating class who has demonstrated the greatest leadership contribution to undergraduate student life and other areas of the community during his or her university years at the Grenfell Campus. It is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on a recommendation from the Vice-President, Grenfell Campus in consultation with the University President.

The Senator Joan Cook Convocation Award in Canadian Politics

The Senator Joan Cook Convocation Award in Canadian Politics was established through generous donations from Senator Cook's friends and colleagues upon the occasion of her retirement from the Senate and in celebration of her long career in Canadian politics. This award will be given to an undergraduate student at convocation who has the highest average in their Canadian Politics Course during the last two years of their program. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Department Head, Political Science.

The Cox and Palmer Prize in Law and Society

This prize is for the student graduating from the Law and Society major or minor program with the highest academic average. The recipient must have obtained an overall average of at least 75%, completed the course program in the normal number of years and be recommended to the Senate Committee on Undergraduate Scholarships, Bursaries and Awards by the Co-ordinator of the Law and Society program.

The Dean's Honour Award in Engineering

This award is in recognition of outstanding contribution made to the Faculty of Engineering and Applied Science through leadership in student affairs and service to the community while maintaining high academic standing.

The David Dunsiger Award for Excellence

This award is for excellence in graduate studies in the Faculty of Engineering and Applied Science, and commemorates the contribution of Dr. A. David Dunsiger, a member of the Faculty of Engineering and Applied Science from 1974-79. It is awarded at the Spring Convocation to a graduate in the preceding year who produces work of outstanding quality. The recipient will be selected by the Faculty of Engineering Scholarship Advisory Committee, on the advice of the Dean of Engineering and Applied Science and the Dean of Graduate Studies.

The French Ambassador's Prize

This prize, the gift of the Ambassador of France to Canada, is a book award made at Convocation to an outstanding graduate whose major was French. The award is made on the recommendation of the Head of the Department of French and Spanish.

Fry Family Foundation Graduate Leadership Award

The Fry Family Foundation Leadership Award is presented to a graduate student who has been selected as Memorial University of Newfoundland's most outstanding graduate student leader. It provides an award of \$5,000.00 to the student who has contributed significantly to student life at Memorial University of Newfoundland, has assumed a variety of leadership responsibilities in various positions and has made a significant contribution to the betterment of their community. This award is given at Convocation to the student who has been selected to receive the Chancellor Award which is the most prestigious leadership recognition awarded by Memorial University of Newfoundland. This award will be made by the Dean, School of Graduate Studies.

Fry Family Foundation Undergraduate Leadership Award

The Fry Family Foundation Leadership Award is presented to an undergraduate student who has been selected as Memorial University of Newfoundland's most outstanding student leader. It provides an award of \$2,500.00 to the student who has contributed significantly to student life at Memorial University of Newfoundland, has assumed a variety of leadership responsibilities in various positions and has made a significant contribution to the betterment of their community. This award is given at Convocation to the student who has been selected to receive the Chancellor Award which is the most prestigious leadership recognition awarded by Memorial University of Newfoundland. This Award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards.

The Holy Heart of Mary Legacy Convocation Award

The Holy Heart of Mary Legacy Convocation Award was established in celebration of the 50th anniversary of the opening of Holy Heart of Mary High School in 1958. The fund was created with the generous support of the Alumni of that school to celebrate the legacy of excellence in teaching established by the school's founders the Sisters of Mercy and the Presentation Sisters. Valued at a portion of the income from the endowment it will be awarded at the Fall Convocation to a student graduating with a bachelor of Education (Intermediate/Secondary) who excelled academically as well as in the internship. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The A.C. Hunter Prize in English

The A.C. Hunter Prize in English, established by the late Mrs. A.C. Hunter in memory of her husband, formerly Head of the Departments of English and French, and Dean of Arts and Science at this University, has a value of \$100.00 and is awarded annually at the Spring Convocation to the graduating student majoring in English who stands highest in the General Degree program. The prize is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of English Language and Literature.

The IEEE Newfoundland and Labrador Section Award

This award, which consists of a certificate and cash prize, is presented at the Spring Convocation to a graduating student in the Faculty of Engineering and Applied Science (Electrical and Computer Engineering Program) who has had a consistently good academic record in the professional courses required for the degree and who has made a significant contribution to the Faculty and to the IEEE student branch. It is awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Engineering and Applied Science.

The Helen Jones Convocation Award for Excellence in English

This convocation award was established by her loving husband and colleague in memory of Professor Helen Jones, an inspiring and supportive teacher in the Department of English Language and Literature. Valued at a portion of the income from the endowment, it will be awarded annually to a student who is graduating with a B.A., honours or general degree, with a major in English, who has achieved

the highest average mark in their English courses. In the event of more than one student sharing the highest mark, the award will be made to the student who has completed the largest number of English courses. The award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of English Language and Literature.

Margaret Waterman Kelly Teaching Prize

This prize, valued at \$500, is named in memory of Margaret Waterman Kelly, a teacher in pre-Confederation Newfoundland whose life exemplified the highest ideals of education and volunteerism. This prize was established by her daughter, Ursula Kelly, to commemorate this lifework. The prize will be awarded to a female student from Newfoundland and Labrador, enrolled in the Faculty of Education who, upon graduation with a Bachelor's degree in Education (Primary, Elementary or Secondary), has demonstrated excellence in teaching combined with commitment to community service. The Prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean, Faculty of Education.

The William J. May Prize in Post-Secondary Studies (Undergraduate)

This prize, valued at a portion of the annual income on the endowment, was established by friends and family of the late Mr. William J. May. Mr. May was Director of Technical and Vocational Education for the province for a number of years and received an Honorary Doctorate from Memorial University of Newfoundland for his contributions to that field. The prize will also consist of a small certificate suitable for framing and will be awarded to the undergraduate student of the graduating class who receives the Medal of Excellence for Post-Secondary Studies (formerly Vocational Education) in his/her graduating year. In a year when there is no suitable candidate it will not be awarded. The prize will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Education.

The MBA Award for Academic Excellence

This award is to be presented annually to the student in the graduating class of the MBA program who achieves the highest academic standing.

The Memorial University of Newfoundland English Student Society (MESS) Award

This award was established in 2000 as a result of funds raised by the Memorial University English Students' Society (MESS) and the Faculty of the Department of English Language and Literature. The MESS Award recognizes the outstanding contribution to student life at Memorial University of Newfoundland made by the Memorial English Students' Society. It will be awarded annually at the Spring Convocation to one or more graduating English Honours or Major students who have consistently good academic records and who have made outstanding contributions to student life. The award will be valued at the annual interest on the endowment and will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of English Language and Literature.

The Grace Morgan Prize in Biochemistry (Nutrition)

This prize is for the student graduating in honors Biochemistry (Nutrition) with the highest standing. The recipient must have obtained an overall average of at least 75%, completed the course program in the normal number of years and be recommended to the Senate Committee on Undergraduate Scholarships, Bursaries and Awards by the Head, Department of Biochemistry.

The Margaret Fitzpatrick Morgan Medal in Nursing

This award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, School of Nursing, Memorial University of Newfoundland.

The Harvey and Doris Murcell Scholarship in Religious Studies

This scholarship, donated to the University by Doris and the late Harvey Murcell of Harbour Grace, and valued at \$500.00, is awarded to a graduating student majoring in Religious Studies. To be eligible for the award, a student must have scholarship standing. Financial need, and the student's contribution to the Department of Religious Studies, may be considered. The award is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Religious Studies.

Newfoundland & Labrador Association of Social Workers' Student Award

The Newfoundland and Labrador Branch of the Canadian Association of Social Workers makes this award annually to a graduating B.S.W. student selected by the Association in consultation with the School of Social Work.

Rick Morris Memorial Bursary

This bursary was established in memory of Rick Morris by his family and friends. Rick was a caring individual who was deeply committed to Newfoundland and worked with a variety of individuals, organizations, and government. He was a mentor to many helping professionals, who regularly sought his counsel on personal and professional issues. He was deeply concerned with violence against individuals, particularly women, children, and the survivors of Mount Cashel. He was involved in the establishment of Unified Family Court's mediation services and frequently collaborated with the aboriginal and senior's communities. The bursary, valued at a portion of the income from the endowment, will be awarded annually to a student who is in financial need and meets the minimum academic requirements for a bursary. It will be awarded on a rotating basis to a student enrolled in one of the following academic areas: Year 1- School of Social Work, Year 2- Faculty of Education, Year 3- School of Human Kinetics and Recreation, Year 4- Department of Gender Studies and Year 5- School of Nursing. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head of the Unit for which the bursary is being awarded.

The Newfoundland & Labrador Teachers' Association Medal

This medal is awarded to a graduating student in Education who has had a consistently good academic record in the professional courses required for the degree and who has made an outstanding contribution to the Faculty of Education and to the University.

Professional Engineers and Geoscientists Newfoundland and Labrador Anniversary Award

The Professional Engineers and Geoscientists Newfoundland and Labrador offers an Award in the Faculty of Engineering and Applied Science to mark the occasion of fifty years of Engineering education at Memorial University of Newfoundland. The award, to be tenable by a student in each year's graduating class, is to be awarded on the following conditions:

- a. high academic standing;
- b. outstanding leadership qualities;
- c. involvement in extracurricular activities;
- d. all-round contribution.

The selection of the winner is to be based on the recommendation of a Selection Committee within the Faculty.

Professional Engineers and Geoscientists Newfoundland and Labrador Award for Excellence

The Professional Engineers and Geoscientists Newfoundland and Labrador has established an "Award for Excellence", which may be made to a student at Memorial University of Newfoundland who obtains an Engineering degree in not more than eight consecutive academic terms and who has completed the prescribed courses with the highest average mark in all the courses. This award takes the

form of a framed "Award for Excellence", suitably engraved, and presented by PEGNL at or about the time of Convocation

Professional Engineers and Geoscientists Newfoundland and Labrador Award for Excellence in Geoscience

The Professional Engineers and Geoscientists Newfoundland and Labrador have established an award for excellence in Geoscience which shall be awarded to the graduating student at Memorial University of Newfoundland who has shown the highest degree of academic excellence during his/her geoscience education. It takes the form of a framed "Award for Excellence" which is engraved and presented by PEGNL on or about the time of convocation. The award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Earth Sciences.

The Prize of the Ambassador of the Federal Republic of Germany

This prize, a book award, the gift of the Ambassador of the Federal Republic of Germany in Canada, is to be awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of German and Russian, to a graduating student who has majored in German Language and Literature and has a consistently good academic record at the University.

Drs. James and Leslie Rourke Dean's Convocation Award in Medicine

This award has been established by a generous donation from Dr. James Rourke, who started as Dean of Medicine in 2004, and Dr. Leslie Rourke. The award recipient will be the graduating medical student who has made an outstanding personal contribution to bettering the lives of others through volunteer work and humanitarian acts while maintaining high academic standing. Consideration will be given to students who have exhibited the following characteristics: altruism, kindness and compassion. The award, valued at a portion of the income on the investment, is made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the basis of a recommendation from the Dean, Faculty of Medicine. The Office of Student Affairs of the Faculty of Medicine will assist the Dean in his or her choice of an appropriate candidate,

The Society of Chemical Industry Merit Award

The student graduating in Honours Chemistry and Biochemistry with the highest standing will receive a suitably engraved gold key and a year's Subscription to Chemistry and Industry. The recipient must have obtained an overall average of at least 75%, completed the course program in the normal number of years, and be recommended to the Senate Committee on Undergraduate Scholarships, Bursaries and Awards by the Heads, Department of Chemistry and Biochemistry.

The Spanish Ambassador's Prize

This Prize, the gift of the Ambassador of Spain to Canada, is a book award made at Convocation to an outstanding graduate whose major or minor was Spanish. The award is made on the recommendation of the Head of the Department of French and Spanish.

The George M. Story Convocation Medal in Arts

This award was established in memory of Dr. George M. Story, Professor Emeritus of Memorial University of Newfoundland. The medal and a \$100.00 prize are awarded to the student graduating with a Bachelor of Arts who has demonstrated, as did Dr. Story, both academic excellence and a strong commitment to serving the University and the community. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean of Arts.

The Swiss Ambassador's Prize

One prize in French and one in German are awarded annually to graduating students who have majored in these languages. The prize in French is awarded on the recommendation of the Head, Department of French and Spanish, and the prize in German on the recommendation of the Head, Department of German and Russian.

The Leslie Thoms Convocation Award

This award, valued at the interest on an endowment, was provided by friends and family of the late Mr. Thoms. It will be awarded at convocation to the undergraduate student of the graduating class who has shown positive, outstanding leadership in student affairs and activities during his or her university career while carrying a full-time course load for the majority of their undergraduate studies and maintaining good academic standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Deputy Provost (Students) and Associate Vice-President (Academic) Undergraduate Studies.

The Moire A. Wadleigh Graduate Award for Excellence in Environmental Science

This award for graduate students in the Environmental Science Program was established in memory of Dr. Moire A. Wadleigh, friend and colleague, caring teacher, dedicated scientist and beacon of excellence in Environmental Science and Geoscience. Two awards will be presented annually: one to the student completing the best Master of Science thesis in Environmental Science within the previous 12 months, the second to the student in the Master of Environmental Science program with the best project and report completed in that year. Successful students must have achieved an average of at least 80% in courses required for the program. Awards will be made by the Dean of Graduate Studies upon recommendation of the Board of Studies of the Graduate Program in Environmental Science.

The Dr. James L. Walker Convocation Award

This award was established in memory of Dr. James L. Walker, a Brandon University department head, psychology professor and research consultant whose innovative teaching, socially relevant research and integration of research into treatment programs for Alzheimer's patients transformed the lives of students, colleagues and patients. Valued at \$1,000, it will be awarded at convocation to a graduating undergraduate student in the Psychology honors program who has demonstrated both academic excellence (a minimum of clear standing) and leadership within their community. The award will be conferred by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Psychology.

The Captain George C. Whiteley English Prize

This prize is the gift of Mr. George C. Whiteley, Jr., a student of Memorial University College, 1926-27, in memory of his father, the late Captain George C. Whiteley. The prize, of the value of \$100.00, is awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of English Language and Literature, to the student who graduates with B.A.(Hons.) in English with the highest standing. In the event that at any convocation there is no Honours graduate in English, the prize may be awarded to a graduating student of outstanding academic merit and promise in the General Degree program who is selected and recommended for the award by the Department of English. Other things being equal, the prize will be awarded to a student who has produced original work of literary merit.

7 Scholarships, Bursaries, and Awards Available for Undergraduate Students for Study Outside Newfoundland and Labrador

The Gordon Billard Award in Education

A donation has been made to Memorial University of Newfoundland by Mr. Gordon Billard for the purpose of establishing a fund to provide financial assistance to Education students who live at the University's Harlow campus while undertaking approved studies in Great Britain. The award is intended to enhance the student's educational experience in Britain. Its value will be based on the annual interest on the fund. It will be awarded during the Spring Semester by the Senate Committee on Undergraduate Scholarships, Bursaries

and Awards upon the recommendation of the Dean, Faculty of Education. Academic achievement and financial need will be considered.

The Coca-Cola Scholarship for International Studies

This scholarship, valued at the annual interest on its endowment, has been established from contributions to the University's *Opportunity Fund* Campaign by The Coca-Cola Foundation. It will be awarded to a student who has completed at least two years of a degree program at Memorial University of Newfoundland and who has been accepted to attend a recognized university outside Canada for one or two semesters of study for transfer credit to Memorial University of Newfoundland towards completion of his/her undergraduate degree.

The Sylvia Dawson Education Award

This annually funded award has been established by a former student of Sylvia Dawson for a period of five years. Sylvia Dawson was a dedicated educator who loved teaching. Valued at \$250 per year, the award is available to an intern in the Faculty of Education who has been selected to travel to Harlow England. Preference will be given to a student who has graduated from high school in Bay Roberts. In the event no student meets this criteria preference will be given to a student who has graduated from high school in Newfoundland and Labrador. The award will be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Dean of the Faculty of Education.

Paddy Dobbin Scholarship in the Faculty of Business Administration

The Paddy Dobbin Scholarship is endowed through a gift from the Dobbin family members (children and grandchildren) in memory of Paddy Dobbin, a St. John's native who married Rita Power on March 17, 1929. From his early life Paddy demonstrated a strong entrepreneurial spirit, a man not afraid of hard work or taking risks. He instilled these qualities in his eleven children. Paddy guided with much love and a spirit that anything was possible. Through example, he taught his children to never fear challenges, feeling there was always something to be learned. The scholarship is open to undergraduate students of scholarship standing, enrolled in the Faculty of Business Administration in the International Bachelor of Business Administration (iBBA) program, who have been accepted for, but not yet undertaken, the study abroad component of their program. Preference will be given to students who have been active in extracurricular activities at Memorial University of Newfoundland and/or in the community. The scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Faculty of Arts Annual Award Fund

These awards are made possible each year by the generous donations of alumni and friends to the Faculty of Arts Annual Fund. Valued at a minimum of \$500 they will be granted annually to undergraduate students enrolled in a Faculty of Arts program. First preference is for students enrolled in a study abroad program within the Faculty of Arts. The recipients must meet the minimum academic requirements for an award as defined by Memorial University of Newfoundland and the number of awards available annually will be at the discretion of the Dean, Faculty of Arts. The awards be granted by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Arts.

The Harlow Development Corporation Scholarship Trust

The Harlow Development Corporation, Harlow, England, has made a grant to establish a scholarship fund to financially assist students from Memorial University of Newfoundland who wish to live at the University's Harlow campus while undertaking approved studies in Great Britain. The fund will also provide scholarships to students who are residents of Harlow and who wish to study at Memorial University of Newfoundland, or some other institute of learning, in Newfoundland. It is hoped that interest on the fund will finance five or six annual scholarships at £250 each. The online application can be found at www.mun.ca/scholarships/scholarships/Harlow.php

Harlow Travel Awards

A number of travel awards, each valued to a maximum of £250 will be awarded to full-time undergraduate students registered at the Harlow Campus in a Memorial University of Newfoundland approved program. Preference will be given to students who are permanent residents of the Province of Newfoundland and Labrador and are attending the Harlow Campus for a minimum of six consecutive weeks residing on the campus for the duration of the award. Eligibility for these awards requires a minimum of clear academic standing in the previous scholarship year. The awards will be made by the Senate Committee on Undergraduate Scholarships and Financial Aid upon the recommendation of the Harlow Scholarship Trustees. The online application can be found at www.mun.ca/scholarships/scholarships/Harlow.php.

The Ann Elizabeth Crosbie (Perlin) Harvey Memorial Scholarship

This scholarship, valued at the interest on an endowment, was established by The Perlin Family Trust to assist undergraduate students from Memorial University of Newfoundland who wish to pursue their studies at the Harlow Campus in Harlow, England. It will be awarded on the basis of scholarship standing with preference being given to students studying Theatre, and/or Drama Studies. The online application can be found at www.mun.ca/scholarships/scholarships/Harlow.php.

The Elizabeth C. Hesson Memorial Scholarship in German

This scholarship was established in memory of Dr. Elizabeth C. Hesson, Head of the Department of German and Russian from 1986 to 1989 and a member of that Department from 1969 to 1989, through the generosity of her family, colleagues and friends. The scholarship has a value of \$1,000.00, and is normally awarded to a German major who has completed at least the second year of study at Memorial University of Newfoundland and who has demonstrated a high level of academic performance in German. The scholarship shall be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of German and Russian, and is designed to assist the student to undertake a program of German studies in German-speaking Europe. In addition to academic excellence, financial need may be taken into account. This scholarship will not necessarily be awarded every academic year.

The A.C. Hunter Travel Award in French

This award has a value of not less than \$600.00 and is awarded annually. It has been established in memory of Dean A.C. Hunter through the generosity of Mrs. Hunter, the Provincial Government of Newfoundland, the Board of Regents of Memorial University of Newfoundland and Dean Hunter's former students and friends. The award shall take the form of a travel grant to a student, in second year or beyond, majoring or minoring in French who wishes to pursue a program of study of one or more semesters' duration, in French language, literature or culture, at a recognized institution in metropolitan France. Eligibility for this award requires a minimum of clear academic standing (as defined by the University) in the previous scholarship year. The award shall be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Department of French and Spanish.

The Muriel H. Hunter Award in Spanish

This award, valued at \$600.00, is awarded out of income derived from a bequest to the University by the late Mrs. Muriel H. Hunter, wife of the late Dr. A.C. Hunter and former Lecturer in Spanish at the Memorial University College. The award shall take the form of a travel grant to a student, in second year or beyond, majoring or minoring in Spanish who wishes to pursue a program of study of one or more semesters' duration, in Spanish or Spanish-American language, literature or culture, at a recognized institution in metropolitan Spain or Latin America. Eligibility for this award requires a minimum of clear academic standing (as defined by the University) in the previous scholarship year. The award shall be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, on the recommendation of the Department of French and Spanish.

The H.H. Jackson Travel Scholarship in German

This scholarship was established upon the retirement of Dr. Herbert H. Jackson, Professor Emeritus and first Head of the Department of German and Russian from 1967 to 1980, through the generosity of his colleagues and students. The scholarship has a minimum value of \$500.00 and is awarded annually by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards, upon the recommendation of the Department Head, to a candidate who has completed at least the second year of study at Memorial University of Newfoundland, has demonstrated a high level of academic performance in German, and is planning to undertake a program of studies and/or work assignment in a German-speaking country.

The Arthur and Sonia May Scholarship

The scholarship, which is expected to be between \$4,000 and \$5,000 (based on the annual interest on its endowment), has been established by Arthur and Sonia May on the occasion of the University's 50th Anniversary as a degree granting institution, and in gratitude for the outstanding experience they enjoyed as students. It will be awarded to a student who has completed at least two years of a degree program at Memorial University of Newfoundland and who has been accepted to attend a recognized university outside Canada for one or two semesters of study for transfer credit to Memorial University of Newfoundland towards completion of his/her undergraduate degree. Applications may be made to the Scholarships, Bursaries and Awards Office, Room 4018, University Centre on or before the third Friday in June.

The Dr. M.O. and Grace Morgan Harlow Bursary

This bursary, valued at a portion of the annual accrued interest on an endowment to Memorial University of Newfoundland from the estate of Dr. and Mrs. Morgan, was established to encourage and assist undergraduate students to attend the University's Harlow Campus. It is open to full-time Memorial University of Newfoundland students attending the Harlow Campus. Up to three bursaries of equal value will be awarded annually to two students in the Faculty of Education (one each in the Spring and Fall semesters) and one to a student in any field of study (in the Winter semester). Bursaries awarded in Fall and Spring will be based on a recommendation from the Dean, Faculty of Education. These bursaries will be awarded by the Senate Committee on Undergraduate Scholarships and Financial Aid. An application is required to identify those students planning to attend Harlow in the winter semester only and may be obtained online at www.mun.ca/scholarships/scholarships/Harlow.php.

The Patti Lynn Noonan Memorial Harlow Travel Bursary

This Bursary, valued at a portion of the income from the endowment, is established in memory of Patti Lynn Noonan by her family. Patti-Lynn's motto was "Live life to the fullest and appreciate it and always tell the people you love that you love them". Patti Lynn will always be remembered for her smile, her laughter, her love of life, her devotion to family, friends and the students in her care, her courage and her determination. Patti Lynn's experience at Harlow was a highlight of her time at Memorial University of Newfoundland. The purpose of the Bursary is to enable the recipient to travel outside of Harlow while studying at Memorial University of Newfoundland's Harlow campus. To be eligible, students must have demonstrated financial need, be in good academic standing, and be accepted to study at the Harlow campus. Preference will be given to students enrolled in the Faculty of Education. The bursary will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards based on the recommendation of the Dean of the Faculty of Education.

The Pinsent Family Harlow Travel Award

This annually funded award has been established by the Pinsent Family for a period of five years. Valued at \$1000 per year this award is available to a Faculty of Education Intern who has been selected to travel to Harlow, England and has achieved scholarship standing. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Dean of the Faculty of Education.

Al Pittman Harlow Travel Award

The Al Pittman Harlow Travel Award has been established in his memory by Al Pittman's friends and family. Mr. Pittman was one of Newfoundland's most esteemed poets and playwrights and he believed that observing the different helps us to see the familiar in a new light. Therefore, travel, in enabling us to experience a different place, culture and context, has the power to heighten and enhance our perspective of home. The award will go to a student in the fourth year of study in the Theatre Program at Grenfell Campus who best exhibits a passion for and commitment to theatre, as well as an appreciation of place and how physical and cultural landscape can impact perspective, and who meets the minimum academic requirements for an award. The Award will be made at the beginning of the semester in which the student is scheduled to depart for England (for approved study at the Harlow campus) and will be valued at a portion of the income on the endowment. This scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Program Chair, Theatre and the Scholarship Committee at Grenfell Campus.

The Gar Pynn Memorial Harlow Scholarship

This scholarship is endowed through a gift from Marg Pynn, family, and friends in memory of Gar Pynn, past director and faculty member of the Faculty of Business Administration. Eligible candidates must be full-time undergraduate students in the Faculty of Business Administration, and have scholarship standing. Preference will be given to students applying to complete an academic term at Memorial University of Newfoundland's Harlow Campus. The scholarship, valued at a portion of the income on the investment, will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration.

The Rhodes Scholarship

A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years. Since, however, the majority of Rhodes Scholars obtain standing which enables them to take a degree in two years, appointments are made for two years in the first instance. Scholars may, however, hold the Scholarship for only 1 year. Those Scholars who elect to read for a D.Phil. at the time of admission may apply for a third year on stipend. The Rhodes Scholar must present a definite plan of study for that period satisfactory to his/her College and to the Rhodes Trustees. A Rhodes Scholar may apply to any one of the courses of study available at the University of Oxford, subject to the consent of the college or, in the case of graduate study, the relevant faculty or department.

The stipend of a Rhodes Scholarship consists of a direct payment to the University and to the Scholar's College of approved fees (such as matriculation, tuition, laboratory fees, and certain other set charges), plus a maintenance allowance, which is paid directly to the Scholar at the rate of at least £3,480 per annum to cover board, lodging and other expenses. The sum provided should be sufficient to enable a Scholar to meet the necessary expenses for term-time and vacations, but those who can afford to supplement it to a modest extent from their own resources are advised to do so. Reasonable travel expenses to and from Oxford will be paid by the Trust. Application forms containing full particulars can be obtained from the Secretary of the Selection Committee for the Province of Newfoundland or from the Scholarships, Bursaries and Awards Office at Memorial University of Newfoundland. Inquiries may be directed in writing to the Secretary of the Selection Committee to Dr. S. Ann Colbourne, 88 Hugh's Pond Road, Portugal Cove-St. Philips, NL, A1M 2C6, by telephone to (709) 777-5219, by fax to (709) 777-5849, or email to acolbourne@nl.rogers.com.

Dr. Edmund de Rothschild Harlow Travel Bursary

This bursary was established to enhance the student's educational experience while studying at Memorial University of Newfoundland's Harlow Campus, by providing funds to defray cost of travel and field work. Travel bursaries valued at a portion of the accrued interest on the endowment to a maximum of £250.00 will be awarded to full-time, undergraduate students registered at the Harlow Campus in a program approved by Memorial University of Newfoundland. The bursary will be awarded by the Senate Committee on Undergraduate

Scholarships and Financial Aid and will be based on need. Eligibility for a bursary requires a minimum overall cumulative GPA of 2. Applicants may be asked to provide a letter of recommendation from a faculty member, including confirmation that the travel is in support of the approved program. If required, the Scholarships and Awards Office will follow-up with applicants as needed.

The Scotiabank Bursaries for International Study

These bursaries, funded by a generous donation from Scotiabank to The Opportunity Fund, are intended to help students broaden their educational experience and cultivate an international perspective through study abroad while pursuing studies in the Faculty of Arts at Memorial University of Newfoundland. Fifteen or more bursaries will be available with approximately ten at the undergraduate level valued at \$1,000.00 each and five at the graduate level valued at \$2,000.00 each. The undergraduate bursaries will be awarded on the basis of scholarship standing to full-time students who are participating in one of the overseas Field Schools or study abroad opportunities sponsored by the Faculty of Arts. These include the Arts semester in Harlow (every Fall) as well as Summer programs at Harlow and in other countries such as Ireland, Malta, Russia, etc. In addition, students wishing to participate in formal exchange programs through the faculty of Arts, such as those with the University of Keele, will also qualify. The graduate bursaries will be based on academics as well and will assist full-time Faculty of Arts master's and doctoral students (including those in interdisciplinary programs) to travel to other countries for the purpose of thesis research and thesis-related study. In both cases financial need may be taken into consideration. In the case of undergraduates the bursaries will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates they will be awarded by the Dean, School of Graduate Studies. In both cases the bursaries will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

The Short Family Harlow Award

This award was created to assist students to travel to and study at Memorial University of Newfoundland's Harlow Campus in the United Kingdom. Four awards valued at \$1250 each for any program of study will be awarded annually. This award is open to students enrolled at either the St. John's Campus or the Grenfell Campus of Memorial University of Newfoundland. To be eligible, students must be planning to attend the Harlow Campus for at least one full term and must have graduated from a high school in Newfoundland and Labrador. Financial need will be considered. Recipients must meet the minimum academic requirements for an award as defined by the University. Application for this award can be made at the same time as application is made to the program at the Harlow Campus. Students will be notified if they are successful in their application for this award prior to accepting the placement at Harlow Campus; however, receipt of the award is contingent on acceptance into the program. A faculty nomination letter must accompany the award application form. Application forms are available in person or by writing the Scholarships, Bursaries and Awards Office, Room 4018, University Centre, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by telephone to (709) 864-3956, or on the Harlow Campus web site at www.mun.ca/harlow. The award will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Harlow Scholarship Committee.

8 Government of Newfoundland and Labrador Scholarships

8.1 For Students Graduating From High School

The following scholarships are made available by the Government of Newfoundland and Labrador and are awarded by the Minister of Education to high school students in the province. They are based on the Department of Education scholarship score which is derived from the results of public exams. In excess of 200 scholarships are awarded each year.

a. The Junior Jubilee Scholarship

This scholarship has a value of \$2,500.00. It is awarded annually to the high school graduate who achieves the highest Department of Education scholarship score.

b. The Electoral District Scholarships

These scholarships, valued at \$1,000.00 each, are awarded annually to the three high school graduates in each electoral district who achieves the highest Department of Education scholarship score.

c. The Centenary of Responsible Government Scholarships

Fifty-five scholarships, valued at \$1,000.00 each, are awarded to high school graduates based on the Department of Education scholarship score provided they have not already been awarded another government scholarship.

d. Constable W.C. Moss Scholarship

This scholarship has a value of \$1,000.00. It is awarded annually to a son or daughter of a member of the Royal Newfoundland Constabulary, or of the Royal Canadian Mounted Police (active, retired or deceased), who achieves the highest Department of Education scholarship score. The Constable W.C. Moss Scholarship requires an application which is available from high school principals.

8.2 For Undergraduate Students in Attendance at Memorial University of Newfoundland

a. The Centenary of Responsible Government Scholarships

The Government of Newfoundland and Labrador provides these scholarships, valued at \$1,000.00 each, to students pursuing an undergraduate program of study. These scholarships are awarded by the Minister of Education on the recommendation of the Senate Committee on Undergraduate Scholarships, Bursaries and Awards at Memorial University of Newfoundland. They are awarded on the basis of scholarship standing and no application is necessary.

b. The Senior Jubilee Scholarship

The Senior Jubilee Scholarship, valued at \$3,000.00, is provided by the Government of Newfoundland and Labrador. It is awarded annually by the Minister of Education on the recommendation of the Senate Committee on Undergraduate Scholarships, Bursaries and Awards at Memorial University of Newfoundland, to the student at the University who attains the highest average in the courses completed during the first two semesters of their second academic year. No application is necessary.

c. The Doctor Arthur Barnes Scholarship

The Doctor William W. Blackall Scholarship

The Doctor Vincent P. Burke Scholarship

The Reverend Doctor Levi Curtis Scholarship

The Ronald K. Kennedy Scholarship

These scholarships, valued at \$1,200.00 each, are provided by the Government of Newfoundland and Labrador. They are awarded annually by the Minister of Education on the recommendation of the Senate Committee on Undergraduate Scholarships, Bursaries and Awards at Memorial University of Newfoundland, to students who have completed two years of a degree program at the

University. They are awarded on the basis of scholarship standing and no application is necessary. Normally these scholarships are tenable at Memorial University of Newfoundland but in special circumstances may be held elsewhere.

The values of the above awards are subject to change.

9 Scholarships, Bursaries, and Awards Administered By Other Authorities

Association of Registered Nurses of Newfoundland and Labrador Education and Research Trust

The AARNL Education and Research Trust has established a scholarship and bursary program for students enrolled in a Bachelor of Nursing Program at Newfoundland and Labrador School of Nursing, and for Registered Nurses pursuing continuing education at the baccalaureate, master and doctorate levels. The awards range in value from \$500 to \$2000. Information and application forms may be obtained from the Education and Research Trust website www.arnnl.ca or by contacting the Trust at trust@arnnl.ca. The deadline for application is October 15.

The Baxter Corporation - Jean Goodwill Scholarship

Two \$5,000 scholarships sponsored by Baxter Corporation, are awarded annually, and are administered by the Association of Indian and Inuit Nurses of Canada. The aim of the scholarships is to encourage nurses of Indian and Inuit ancestry who intend to serve in the Northwest Territories or Yukon, by helping them obtain the specialized knowledge they will require.

Consideration will be given to applicants of Indian and Inuit ancestry who intend to serve in the North, including:

- a. Students who are graduating from a registered nurses' course and are accepted into one of the following specialized training programs:
 - i. community health nursing,
 - ii. outpost nursing,
 - iii. midwifery;
- b. Graduate nurses already serving in isolated communities, who are accepted into one of the specialized training programs listed above;
- c. Those who are or will be enrolled in a Bachelor level nursing program.

The successful applicant must provide documentation of his/her efforts to secure employment in isolated northern native communities.

Completed applications must be received by the President of the Indian and Inuit Nursing of Canada by July 1 each year. Successful candidates will be notified by August 1. Further information may be obtained by writing to President Aboriginal Nurses Association of Canada, 55 Murray Street, 3rd Floor, Ottawa, Ontario K1N 5M3 or by telephone to (613)230-1864 or by fax to (613)230-1542.

The Patricia Blackburn Memorial Bursary Fund

This fund has been established at Grenfell Campus, Memorial University of Newfoundland, in memory of Patricia Blackburn and her grandson Erik Blackburn. The annual income is to be used at the discretion of the Vice-President (Grenfell Campus) to facilitate or improve the educational opportunities of deserving young people from rural Newfoundland & Labrador. The fund will assist one or more promising students who would otherwise be unable to attend or to continue university.

The Bristol Laboratories of Canada Prize

This prize of \$200.00 is to be used for the purchase of Medical books. It is to be awarded to a first-year medical student on the basis of academic performance as well as the interests and the needs of the student. Works on Pharmacology and Therapeutics will ordinarily be included in the books selected. The award is made by the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

Calder Scholarship

The Calder Scholarship, valued at \$500.00 has been created by the Town of Burgeo to honour Drs. Mike and Ann Calder for their combined sixty years of service to the town. It will be awarded annually to a student who has graduated from a school in Burgeo, who is enrolled in a post-secondary program of studies which leads to a career in the health care field. Students must apply, prior to November 30, on an application form provided by the Town of Burgeo. Students in any year of their programs may apply.

Cal Callahan Memorial Bursary

Each year this Association offers a bursary, or bursaries, totalling six thousand dollars (\$6,000.00) to sons, daughters, or legal wards of persons who derive their principal income from the Pipeline Industry and whose employers are Members of this Association. The purpose of these bursaries is to give financial assistance to students who are beginning undergraduate studies in a full program leading to a Degree or Certificate in any field, at a recognized University or College in Canada. Selection will be made by the Executive Committee, based upon scholastic record and financial need, provided the applicant otherwise qualifies. Applications may be obtained from the Pipe Line Contractors Association of Canada, Suite 720, 5915 Airport Road, Mississauga, Ontario, L4V 1T1, and must be returned by not later than September 30th accompanied by a receipt or other proof of enrollment.

Canadian Armed Forces University Training Plans

Selected students may qualify for financial assistance through these Canadian Armed Forces University Training Plans: the Regular Officer Training Plan (ROTP); the Regular Officer Training Plan (ROTP-Coop, M.U.N. only); the Dental Officer Training Plan (DOTP); the Medical Officer Training Plan (MOTP); and the Reserve Entry Scheme-Officers (RESOP). Full details may be obtained in writing from The Canadian Forces Recruiting Centre, Government of Canada Building, 354 Water Street, St. John's, NL, A1C 1C4 or The Canadian Forces Recruiting Detachment, Herald Towers Building, Suite 407, 4 Herald Avenue, Corner Brook, NL, A2H 4B4.

Canadian Federation of University Women (Saint John, NB) Jean Flemming Memorial Scholarship for Mature Students - \$1,500

The Canadian Federation of University Women – Saint John offers this scholarship to a mature female student pursuing degree studies at a Canadian university. Eligible candidates must be over 24 years of age, a resident of the greater Saint John area, and have completed a minimum of 30 credit hours – equivalent of one full year of study. The priority considerations in awarding the scholarship are academic merit and financial need. Preference will be given to those pursuing a degree on a full-time basis or who agree to register on a full time basis on receipt of the scholarship.

The Canadian Gerontological Nursing Association

Sancelli/CGNA Nursing Scholarship - 2 awards of \$1000.00. The purpose is to provide support to outstanding Registered Nurses undergoing further education in either an undergraduate nursing degree program, or a post graduate degree program that is relevant to career development in the field of Gerontological Nursing.

The candidate must:

- Be a member of the Canadian Gerontological Nursing Association.
- Be registered to practise nursing in a Canadian Province.

- Have gained acceptance to a suitable full-time program in a recognized educational institution at the time of taking up the award.
- Exhibit interest in and potential for, a career in Gerontological nursing in Canada.
- Be a Canadian citizen or permanent resident at the time of taking up the award.

The scholarship is administered by the CGNA and further information regarding criteria can be obtained by writing to CGNA, c/o Nancy Bol, Parkwood Hospital, 801 Commissioners Rd. E., London, Ontario N6C 5J1.

Canadian Hydrographic Association Awards

A sum of two thousand dollars (\$2,000.00) will be awarded to a full time student in second year of a science or survey program at a bona fide university or a technological college in Canada. The award is intended to assist a deserving student in financing his/her education in a field related to survey sciences. The award will be made annually to the student judged the most deserving based on the information contained in the applications received. The applications are available from the Canadian Hydrographic Association, Institute of Ocean Sciences, 9860 West Saanich Road, Sidney, B.C. B8L 4B2, Attention: Barry M. Lusk. C.L.S.

Canadian Lung Association Fellowship/Research Grant Program

From funds provided by the Christmas Seal Campaign, fellowships and research grants are awarded by the Canadian Lung Association on recommendations from the Canadian Thoracic Society, Canadian Nurses' Respiratory Society, and Physiotherapy Section.

Through the Canadian Thoracic Society, fellowships are awarded to physicians or to those holding doctorate degrees in the health sciences for periods of research training in the area of respiratory disease.

Through the Canadian Nurses' Respiratory Society, fellowships and research grants are awarded in the area of respiratory nursing at the Master's or post-Master's level.

The Physiotherapy Section of the Canadian Lung Association offers fellowships to physiotherapists pursuing post-graduate training, with respiratory research as the major component.

Information and application forms may be obtained in writing to Canadian Lung Association, 75 Albert Street, Suite 908, Ottawa, Ontario, K1P 5E7.

Canadian Nurses Foundation Scholarships & Fellowships Competition

Scholarships and fellowships are awarded to nurses pursuing education at the baccalaureate, master and doctoral levels. In addition to non-specific studies, awards are available for specific area of practice such as northern nursing, occupational health, dialysis nursing, neurological nursing, oncology nursing, community health, gerontology nursing, pediatric nursing and nursing administration. Applications must be members of CNA and CNF, be Canadian citizens and agree to work in Canada for a period of one year for each year of financial assistance. Application forms are available from their website www.canadiannursesfoundation.com or in writing to Canadian Nurses Foundation, 50 Driveway, Ottawa, Ontario K2P 1E2 or by telephone to (613)237-2133 or by fax to (613)237-3520.

Canadian Soroptimist Grants for Women - \$5,000.00

This grant is available to female students pursuing a course of studies leading to a career of service to people who are in their final year of a four year undergraduate program. Further information may be obtained in writing to Soroptimist Foundation of Canada, c/o Doreen Dodd, St. Paul's College, Westmount Rd., N., Waterloo, Ontario N2L 3G5.

The Canadian Union of Public Employees, Local 1516, Scholarships

CUPE Local 1615 offers five scholarships annually valued at \$500 each. The scholarships are available to students entering or already in a program of study at Memorial University of Newfoundland or a two-year program at any other recognized institution in St. John's or Corner Brook, who are children of CUPE Local 1615 members. The scholarships are awarded by the CUPE Scholarship Committee on the basis of academic ability only. Application forms are available from the CUPE Local 1615 Scholarship Committee.

The CANQUA '95 Undergraduate Research Awards

The national meeting of the Canadian Quaternary Association (CANQUA) was hosted by Memorial University of Newfoundland in 1995. As part of the legacy of that meeting, CANQUA is pleased to announce the creation of an undergraduate research award in Quaternary studies at Memorial University of Newfoundland. The award, valued at \$200, is intended to support honours thesis research in any discipline related to the Quaternary Period. Two additional awards of one-year membership in CANQUA (including journal Subscription) will be granted in the same competition. Candidates will be selected on the basis of a submitted research proposal and academic excellence. Application forms and guidelines are available from, and should be submitted to, the Geography Department. Deadline date for submission of applications is March 31.

Children of War Dead (Education Assistance) Act

This Act provides fees and monthly allowances for children of veterans whose death was attributable to military service. Inquiries should be directed to the nearest District Office of the Department of Veterans Affairs.

CIBA Student Award

The CIBA collection of medical illustrations provided by CIBA Pharmaceuticals is presented annually to the first-year student showing the most promise in the field of Anatomy. The award is made by the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

The Co-op Atlantic McEwen Scholarship

To honour the memory of Wesley H. McEwen, Co-op Atlantic annually offers two university entrance scholarships of \$1000.00 each per year, available to a student for up to four years. The awards help deserving students reach their educational goals and are designed to improve understanding and knowledge of co-operation and co-operatives. Applicants must be (a) a full-time employee, or the dependent of a full-time employee, of Co-op Atlantic or one of its member co-operatives; or (b) dependents of members or members of member co-operatives of Co-op Atlantic. Further information may be obtained in writing to The Manager, Corporate Administrative Services, Co-op Atlantic, P.O. Box 750, Moncton, New Brunswick E1C 8N5.

The Donald E. Curren Scholarships

These scholarships (four of \$1000.00 each and four of \$500.00 each) are open to mobility impaired students who have been accepted by a university in the Atlantic Provinces, with preference to paraplegics and quadriplegics. The scholarships will be awarded on merit, and on such other criteria as the Selection Committee may determine. Recipients must be Canadian citizens or permanent residents, and residents of the Atlantic Provinces. Application deadline is July 15. Application forms may be obtained in writing to Donald E. Curren Scholarship Fund, c/o Canadian Paraplegic Association, Nova Scotia Division, 5599 Fenwick Street, Halifax, Nova Scotia B3H 1R2.

Dr. Wynanne Downer Award for Women

This award was established by the Canadian Federation of University Women, Corner Brook Club, in memory of Dr. Wynanne Downer who was a founding member. The award, valued at a minimum of \$500.00 will be made to a female student from Newfoundland and Labrador who is pursuing a degree at Grenfell Campus. The award will be made annually by the members of the CFUW, Corner Brook. Preferences for this award will be given to a mature female student (twenty-one years or older), who is in good academic standing and beyond her first year of studies. Financial need will be considered. Applications for this award are available from the Scholarships and Awards Office, Memorial University of Newfoundland, Room 4018, University Centre, St. John's, NL, A1C 5S7, or the Student Affairs Office, Grenfell Campus, Room AS233, Corner Brook, NL A2H 6P9.

Epilepsy Newfoundland and Labrador**a. The Jim Hierlihy Memorial Scholarship**

This scholarship, valued at \$1000, will be awarded annually to an undergraduate student at any post-secondary institution in Canada or the United States, who have diagnosed epilepsy and are a member in good standing of Epilepsy Newfoundland and Labrador, at the time of scholarship application. Evaluations will be based on a combination of the applicant's grades, extracurricular activities, and financial aid.

b. The Mature Student Scholarship

This scholarship, valued at \$1000, will be awarded annually to an undergraduate student at any post-secondary institution in Canada or the United States, who is at least 21 years of age, who has diagnosed epilepsy and is a member in good standing of Epilepsy Newfoundland and Labrador, at the time of scholarship application. Current board or staff members are not eligible to apply for these scholarships. Former board or staff members and/or their family members can apply, if they have been out of the service of Epilepsy Newfoundland and Labrador for two years. This two year period will be calculated as two years prior to the scholarship award date.

Award holders must be prepared to enter or be currently entered in a post-secondary training institution in the academic year of application. Scholarship applications must be received by Epilepsy Newfoundland and Labrador no later than November 1st of the academic year. Notification of award will be made no later than November 15th. The award holder must submit to Epilepsy Newfoundland and Labrador confirmation of admission or enrollment as soon as possible after selection, but not later than January 15th of the academic year. The successful applicant should be available, in person, to receive their award at a formal presentation.

Further information, memberships or applications may be obtained in writing to Epilepsy Newfoundland and Labrador, 261 Kenmount Road, St. John's, NL, A1B 3P9 or by telephone to (709) 722-0502, or by fax to (709) 722-0999, or by e-mail: epilepsynf@nf.aibn.com, or through the website at www.epilepsynl.com.

Terry Fox Humanitarian Award Program

This program is intended to encourage Canadian youth to seek the high ideals represented by Terry Fox, by the granting of commemorative scholarships for the pursuit of higher education. The value of each award is \$3000.00 annually for a maximum of four years or until a first degree is obtained. Selection criteria for recipients will be based on demonstration of the highest ideals and qualities of citizenship and humanitarian service while in pursuit of excellence in their academic, amateur sport, fitness, health, community service and related endeavours. Deadline for the submission of applications is February 1st. Applications are available in writing to Terry Fox Humanitarian Award Program, Simon Fraser University, 8888 University Drive, Burnaby, BC V5A 1S6 or by fax to (604) 291-3311.

Charles E. Frosst Medical Scholarship

This scholarship, valued at \$1,000.00, will be awarded at the end of the fourth year to the student who, in the opinion of the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships, has shown the most promise in the field of Therapeutics. A suitably inscribed bronze medal is also presented to each year's winner.

Glaxo/Harlow Award in Clinical Pharmacy

Galxo Canada Inc. offers \$2,500.00 annually which provides travel expenses allowing two students in the final year of the pharmacy program to undergo the last rotation of their clinical structured practice experience in London, England. Students reside at Harlow Campus. Students must apply for this award. Recipients are selected on the basis of academic achievement as well as their performance on a required assignment. The award is not given to an applicant if all criteria for the award are not met. The selection will be made by clinical faculty, School of Pharmacy.

Glory of Mozart Chamber Music Travel Bursary

This award was established by the 1991 St. John's International Mozart Chamber Music Competition Committee.

The award will be available to students enrolled in the Bachelor of Music degree program who are participating as members of a chamber ensemble at an event of major musical importance outside the province. The bursary will be used to assist with travel and other expenses involved in attending the event. Musical ability, academic standing, financial need and the benefits to the students from attending the event may be taken into account in making the award. The value of the award will be based on the interest income accruing on the capital sum in the fund. Applications for this award should be submitted in writing to the Dean of the School of Music.

The Ford Hewlett Memorial Oncology Scholarship

A scholarship, valued at \$1000, has been established by the Canadian Cancer Society, in memory of Mr. Ford Hewlett of Springdale, Newfoundland, who was a very dedicated volunteer of the Society. The scholarship is awarded annually to a third year medical student who has demonstrated interest in the field of research or clinical oncology.

S.R. Hussey Memorial Scholarship Fund

This fund was established some years ago by the Canadian Council of the Blind Clubs of the Atlantic region for the purpose of assisting registered blind students in continuing their education. The fund is available to registered blind students in the Atlantic region who are attending a recognized university. The fund is also available to assist the children of registered blind persons. Blind students interested in making application for assistance from this fund should contact the nearest office of the Canadian National Institute for the Blind for further information.

Imperial Tobacco Canada Scholarship Fund for Disabled Students

Purpose: To encourage young Canadian disabled students to pursue university studies with the ultimate objective of obtaining a university degree.

Field of study: Undergraduate program in any field of study.

Value: Each scholarship is valued at \$1500.00 annually.

Number: Minimum 5.

Duration: One academic year - may be renewable upon application.

Conditions: Candidates must be disabled according to the following 1975 United Nations Declaration: A disabled person is "any person unable to ensure himself or herself wholly or partly the necessities of a normal individual and/or social life, as a result of a deficiency, either congenital or not, in his or her physical or mental capabilities."

Candidates must be Canadian citizens. Candidates must have successfully completed the schooling requirements or equivalent for admission to an undergraduate program of study, or be presently registered as a full-time undergraduate student as defined by the University, and have successfully completed the last academic year. Candidates must not be employees or franchisees, or dependents of employees or franchisees of Imasco or any of its subsidiaries. Where tenable: At any Canadian university which is a member of, or affiliated to a member of the AUCC. Further information: Additional information and application forms may be obtained in writing to The Awards Officer, Canadian Awards Section, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1. Completed applications in duplicate are to be returned to AUCC not later than June 1st.

Imperial Oil Ltd. Higher Education Awards (for Sons and Daughters of Employees and Annuitants)

The Higher Education Awards program provides full tuition and compulsory fees for sons and daughters of Imperial Oil Ltd. employees,

annuitants, or deceased employees. Students must be accepted at any approved Canadian University or Community College. The student must begin their education within six years of starting secondary school (grade 9), and must have an average of at least 70% in the subjects required for admission by the institution. Students who do not qualify upon graduation from secondary school may be eligible should they achieve the equivalent of a 70% average while in post secondary education. Once an award is granted, the student must pass all subjects and complete a "full workload" each year. A student may qualify for up to four awards in a five year period, which begins when the student first starts post secondary education. Application forms and brochures explaining the program in more detail are available in writing to Administrative Management Services, Awards Division, P.O. Box 414, Pickering, Ontario L1V 2R6 or by telephone to (416)420-0642 or by fax: to (416)420-2516 or through the website at www.uregina.ca/awards/scholarships/.

The International Grenfell Association Scholarship Program

A number of scholarships and awards are available to students resident in the region served by the Grenfell Regional Health Services:

a. The IGA Scholarships (three at \$3000.00 per semester for up to four years)

Two of these awards are available to high school graduates upon entrance to a degree-granting institution; application deadline date January 31. One award is reserved for undergraduate students already in attendance at a university; application deadline date May 15. These awards may be renewed if scholarship standing is maintained (at 70% or better).

b. The IGA Bursary Fund Awards

Discretionary awards of not more than \$2000.00 each are available for study at community colleges, technical institutes and universities to students qualifying on the basis of academic achievement, industry, potential and financial need. Applications may be submitted prior to May 15. A special bursary of \$3000.00 to a mature student, out of high school five years or more, is also available.

Application forms and further information are available in writing to Mr. Paul Canning, General Business and Grant Programs, International Grenfell Association, 66 Birmingham Street, St. John's, NL, A1E 5M8, or by telephone to (709) 745-6162 or by fax to (709) 745-6163, or by email to iga@nfld.net.

Dr. Jerzy Jarmasz Memorial Scholarship (\$500)

This award was endowed in 2003 by the co-donors, Mrs. Mercedes Jarmasz and the Polish Heritage Foundation of Canada. It is available to any student of Polish origin. One scholarship is awarded each year. In order to be eligible, applicants must have completed two years of studies. The application deadline is June 30. Application forms are available at www.polishheritagefoundation.org/.

Kin Canada Bursaries

Applicants to the Kin Canada Bursaries must be Canadian citizens or permanent residents and must be full-time students in the process of graduating from high school, or currently studying or registered at a post-secondary institution. Anyone interested in applying for these bursaries may use the standard application form available at www.bursary.ca and submit it to the Kinsmen, Kinette or Kin Club nearest your permanent residence by February 1st. Disbursements take place in May.

The Leonard Foundation Scholarships

Additional Application Forms are available in writing to Grace Singh, Secretary, The Leonard Foundation, c/o The Canada Trust Company, 20 Eglinton Avenue West, Toronto, Ontario M4R 2E2, or by telephone to (416) 361-8745, or by fax to (416) 361-8753, or Scholarships, Bursaries and Awards Office, Room 4018, University Centre, Memorial University of Newfoundland, or by telephone to (709) 864-3956, or by fax to (709) 864-2347.

Gerry Lynch Memorial Scholarship

This scholarship, valued at \$3,000.00, is awarded annually at the NLMA annual meeting to a graduating Memorial University of Newfoundland Medical student in good standing. Applicants are required to write a research paper of 1500-2000 words on a topic selected each Fall by the NLMA Board of Directors. The scholarship is administered by the Canadian Medical Foundation and will be available in perpetuity.

The Merck Frosst Award

Merck Sharp & Dohme Canada Limited provides an annual award of \$1,000.00 (or, when necessary, two awards of \$500.00 each) to a third-year student of each Canadian medical school. This award is intended to recognize the efforts of the medical student who has shown the most promise in the field of Therapeutics. A copy of the current edition of the Merck Manual will be offered together with the monetary prize. The awards are made by the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships

The Dr. Leonard A. Miller Award

This award, in memory of Dr. Leonard A. Miller, is given annually to the most outstanding student in the study of Community Medicine. The award, in the amount of \$500.00, is funded jointly by the Faculty of Medicine and the General Hospital. The selection of the recipient for the award will be made at the completion of first year medical studies. The award is made by the Dean of Medicine's Advisory Committee on Scholarships, Awards and Bursaries.

The National Sea Products Limited Scholarships

Five university entrance scholarships valued at \$1500.00 each are made available annually by National Sea Products Limited. The awards are open to children of permanent employees of the company or its wholly-owned subsidiaries, and to children of crew members of the company's offshore trawlers who have been employed with the company for at least twelve months. Further information and application forms are available in writing to The Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

The Natural Medicines Comprehensive Database Recognition Award

This award is presented to an outstanding graduating pharmacy student who has shown an interest in evidence-based approach to patient care, in particular when considering natural medicines. The winner receives the current edition of the Natural Medicines Comprehensive Database Book, access the Database online, complimentary enrollment in the Natural Medicines Comprehensive Database continuing education series, and an award certificate.

Newfoundland Light & Power Co. Limited Employees' Association Scholarships

Sons and daughters of Newfoundland Light & Power Co. Limited employees and certain other relatives of single employees, may apply for the above scholarships if they intend to pursue post-secondary study. In applying, applicants should note that employees must be members of the Newfoundland Light & Power Co. Limited Employees' Association and regular contributors to its Scholarship Fund. Applications and information are available in writing to Employees' Association, Newfoundland Light & Power Co. Limited, P.O. Box 8910, Kenmount Road, St. John's, NL, A1B 3P6.

Newfoundland Medical Association Awards

The Newfoundland Medical Association will make two awards of \$1,000.00 available to students at the end of second year of medical studies. These awards are intended to recognize potential interest in the organizational aspects of the profession of medicine as judged by the contribution made by the student to the governance of the medical school. While academic excellence is not the main criterion, recipients should be in good academic standing. The recipient should be identified to the Executive of the Association for approval upon recommendation by the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

Noia-Hibernia Commemorative Scholarship

1997 was a big year for the oil & gas industry. The Hibernia project was successfully completed, hauled out to sea, and started drawing oil. The Noia-Hibernia Commemorative Scholarship Fund was created to commemorate this landmark year. It offers an annual scholarship of \$1,000 to a graduating high school student in Newfoundland and Labrador who is entering post-secondary studies and intending to pursue a petroleum-related career. These are the bright minds that will shape the future of this industry, and we feel like it would only be right to foster some of their development. The scholarship will be awarded to the student who best meets academic and extra-curricular criteria. If you're about to graduate in June 2012 and are pursuing post-secondary studies with the goal of a career in petroleum in the 2012-2013 academic year, we encourage you to apply for this scholarship. Applications are available at www.noia.ca/Portals/0/ScholarshipApplication.pdf. Each student should outline their community and extra-curricular activities in the completed application and include a letter of reference. Applications should be sent to the following address: Noia Scholarship Selection Committee Box 44, Atlantic Place Suite 602, 215 Water Street St. John's, NL A1C 6C9.

The Ocean Ranger Scholarships and Bursaries

To commemorate the tragic loss of the 84 crew members of the Ocean Ranger on February 15, 1982, a scholarship and bursary program has been established by the Ocean Ranger Disaster Fund. These awards, valued at \$500.00 per year, are tenable at Memorial University of Newfoundland, the Fisheries and Marine Institute, and the College of the North Atlantic to students who are entering or pursuing a post-secondary program of studies at one of these three institutions. In selecting candidates, preference will be given to the daughters, sons and/or widows of those who were lost. In the absence of eligible candidates from this group, the scholarships and bursaries may be awarded to other students at the discretion of the Ocean Ranger Scholarship Committee. Information and application forms may be obtained from the Office of Student Affairs at any of the institutions noted above.

The Gregory J. Power Poetry Awards

The proceeds from a sum of money donated to the University by Mr. Gregory J. Power will (depending on the merit of submissions) be awarded as first, second, and third-place prizes in an annual poetry competition administered by the Department of English, Memorial University of Newfoundland. The competition will be open to full or part-time students at the University upon submission of original, unpublished work. The selection of winners will be the responsibility of the Head, Department of English, acting on the advice of a special committee. Entry forms and further information may be obtained by contacting the Department of English.

Prize in Psychiatry

To be awarded by the Psychiatry Department to the most outstanding student in Psychiatry in the Clinical Clerkship Year (Third-Year Medical Studies).

The Pro Vice-Chancellor's Prize

The Strategic Framework for Memorial University of Newfoundland states that Memorial will enrich undergraduate education by helping students to experience the excitement of intellectual discovery, introducing undergraduates more effectively to the wider academic enterprise. In encouragement of this objective and in recognition of superior writing and scholarship by undergraduate students that deserves a wider audience, the Vice-President (Academic) and Pro Vice-Chancellor has established a series of prizes for the best undergraduate scholarship done each year at the University.

Instructors are invited to nominate examples of their undergraduate students' course work for the Pro Vice-Chancellor's Prize. The professor will certify that the work is original and the student's own work, and submit it to his/her head/director who will transmit it to the committee. Students may also submit their own course work for consideration. Instructors' comments should not appear. In accepting nomination or making application, students agree to publication.

Nominations and applications will be assessed by a selection committee consisting of five academic staff members and chaired by the Associate Vice-President (Academic). The committee will adjudicate entries for their intellectual originality, cogency, facility of expression, and adherence to principles of scientific inquiry and critical thinking.

The value of the prize is \$500 cash or a \$1000 scholarship tenable in a graduate program at Memorial University of Newfoundland. Up to five prizes will be awarded each year. At the discretion of the selection committee, honourable mention may be accorded to entries beyond the available number of prizes.

Rixon Rafter Scholarship Fund

This fund was established in memory of Rixon Rafter, a former student of the Ontario School for the Blind, who became a successful newspaper owner in Ontario. Awards from this fund are intended to supplement, but not replace assistance available to students from existing sources. The amount granted to students from this fund is determined by the Rixon Rafter Scholarship Committee and financial need is taken into consideration. Registered blind students may request assistance from the fund by contacting the nearest Canadian National Institute for the Blind office in their area.

The Rhodes Scholarship

A Rhodes Scholarship is tenable at the University of Oxford and may be held for three years. Since, however, the majority of Rhodes Scholars obtain standing which enables them to take a degree in two years, appointments are made for two years in the first instance. Scholars may, however, hold the Scholarship for only 1 year. Those Scholars who elect to read for a D.Phil. at the time of admission may apply for a third year on stipend. The Rhodes Scholar must present a definite plan of study for that period satisfactory to his/her College and to the Rhodes Trustees. A Rhodes Scholar may apply to any one of the courses of study available at the University of Oxford, subject to the consent of the college or, in the case of graduate study, the relevant faculty or department.

The stipend of a Rhodes Scholarship consists of a direct payment to the University and to the Scholar's College of approved fees (such as matriculation, tuition, laboratory fees, and certain other set charges), plus a maintenance allowance, which is paid directly to the Scholar at the rate of at least £3,480 per annum to cover board, lodging and other expenses. The sum provided should be sufficient to enable a Scholar to meet the necessary expenses for term-time and vacations, but those who can afford to supplement it to a modest extent from their own resources are advised to do so. Reasonable travel expenses to and from Oxford will be paid by the Trust. Application forms containing full particulars can be obtained from the Secretary of the Selection Committee for the Province of Newfoundland or from the Scholarships, Bursaries and Awards Office at Memorial University of Newfoundland. Inquiries may be directed to the Secretary of the Selection Committee in writing to Dr. S. Ann Colbourne, 88 Hugh's Pond Road, Portugal Cove-St. Philips, NL, A1M 2C6, or by telephone to (709) 777-5219, or by fax to (709) 777-5849, or by email to acolbourne@nl.rogers.com

Robin Hood Multifoods Scholarship

One scholarship, valued at \$1000.00 for a two-year period, is made available by Robin Hood Multifoods to a student entering first-year university. For students entering Memorial University of Newfoundland, priority will be given to those enrolled in a Nutrition or Biology program. The award will be made on the basis of a candidate's participation in youth activities and priority is given to 4-H members, providing that the candidate meets the necessary academic and financial need requirements. Information and applications are available in writing to The Co-ordinator, Youth Services Division, Confederation Building, St. John's, NL, H3C 1E3.

The G. Allan Roeher Institute Awards

The G. Allan Roeher Institute offers bursaries to graduate students and research grants (up to \$8000 each) to post-graduate students and faculty members or associates, who are interested in the field of mental handicap or related fields. These awards are made possible through the support of the Scottish Rite Charitable Foundation of Canada. Further information and application forms may be obtained in

writing to The Secretary, Bursaries and Grants Adjudicating Committee, G. Allan Roeher Institute, Kinsmen Building, York University, 4700 Keele Street, Downsview, Ontario M3J 1P3.

Wojciech Rogozinski Memorial Scholarship (\$1000)

This award was endowed in 2007 by the donors, Mr. George Tymowski and Mrs. Danuta Tymowski. It is available to any student of Polish origin who demonstrates financial need. One scholarship is awarded each year. In order to be eligible, applicants must have completed two years of studies. The application deadline is December 31. Application forms are available at www.polishheritagefoundation.org/.

Royal Canadian Legion Scholarships

a. Provincial Command Scholarships

Two scholarships, valued at \$750.00 each, are awarded annually to students entering University for the first time who are children of ex-service personnel, or of Life, Ordinary or Associate Voting Members of the Legion. Actual financial need is taken into account in addition to scholastic standing when awards are made.

b. Dominion Command Scholarships

Two scholarships, valued at \$750.00 each, are awarded annually to students in their second, third, or fourth-year of university, who are the children of ex-service personnel, or of Life, Ordinary or Associate Voting members of the Legion. Actual financial need is taken into account in addition to scholastic standing when awards are made. Application forms available in writing to The Newfoundland & Labrador Command, The Royal Canadian Legion, P.O. Box 5745, St. John's, NL, A1C 5X3.

The Robert B. Salter Scholarship in Medicine

This scholarship is awarded annually from income derived from an endowment by Dr. Robert B. Salter, Professor and Head of Orthopedic Surgery at the University of Toronto, who has had a long association with the Grenfell Mission. This scholarship is to be awarded to the third-year undergraduate medical student who best exemplifies the qualities of compassionate and competent patient care. Preference will be given to students born in Newfoundland and Labrador. The award is made by the Dean of Medicine's Advisory Committee on Awards, Bursaries and Scholarships.

Diana Lemire Savidant Memorial Bursary

Diana Lemire Savidant (1943-1994) was born and raised in Rouyn, Quebec and moved to Prince Edward Island in 1973. Always an avid student, she also gained respect as an art teacher. Applications for the scholarship will be accepted from female residents of Prince County 18 years of age and older. The award will be given to the applicant who displays the most potential for development and that sense of exploration in the visual arts epitomized by Diana Lemire Savidant's own career. Financial need will be an important factor in determining the recipient but not necessarily the only one. Applicants are expected to be pursuing the arts as a career option or serious avocation. Eligible programs include: study in the visual arts at recognized post-secondary institutions; summer schools or professional level courses and advanced workshops and seminars, minimum duration of five days.

The bursary will be awarded in June of each year commencing in 1996 and the amount of the bursary will be determined each year based on the return on the capital fund invested. The award will be presented in the form of a cheque or bank draft payable jointly to the successful applicant and the educational institution. The Awards Committee may vary this rule if it is not applicable. No award will be made with respect to expenses already incurred. Should the program applied for be cancelled or the recipient withdraw or fail to enroll, the funds must be returned to the East Prince Women's Information Centre.

Applicants will be invited in March of each year through public announcements and other means with an application deadline of May 15. All applications must be accompanied by a resume and a full description of the program being pursued. The applicant should include a one page summary of personal background in art achievement and what goals are being pursued by following the study program for which support is being requested. Applicants selected for a finalist interview must be prepared to display a small portfolio of work, preferably in more than one medium. Where the program is more than one year in duration applicants are eligible to re-apply. Applications will be received until May 15 and may be obtained in writing to East Prince Women's Information Centre, 75 Central Street, Summerside, PE C1N 3L2 or by telephone to (902) 436-9856.

Schulich Leader Scholarship

Schulich Leader Scholarships are undergraduate entrance scholarships for students enrolling in the **STEM (Science, Technology, Engineering, Mathematics)** areas of study at 20 selected universities. All Canadian high schools, secondary schools and CEGEPs (in Quebec) may submit one Schulich Leader Nominee each. Schulich Leader Nominees are selected by their schools based on two of three criteria: outstanding community/business leadership, academic excellence and financial need. Once a Schulich Leader Nominee is selected, he/she can apply his/her nomination to the participating universities in Canada where they intend to submit formal applications for undergraduate study. All participating universities are responsible for making the final selection of their Schulich Leaders for their respective institution. In 2012, a maximum of 40 Canadian Schulich Leaders will be selected; in 2013 and thereafter there will be 60 Canadian Schulich Leaders. Each entrance scholarship is valued at \$60,000 CAD and will be indexed to inflation. The scholarship is distributed during each Schulich Leader's term of undergraduate study. The granting of scholarships will start with the academic year commencing in Fall 2012.

The Society of United Fishermen Memorial Scholarships

There shall be awarded annually by this Society two scholarships of a combined value of \$600.00. These scholarships are awarded to children of members or deceased members of the Society. The scholarships are tenable at Memorial University of Newfoundland or any other institution of learning at which the student might wish to continue his or her studies in the year following graduation from high school. Further information and application forms may be obtained in writing to The Grand Secretary, Society of United Fishermen, P.O. Box 1434, St. John's, NL. The deadline date for application is July 1st.

The St. John Ambulance Bursary

This bursary of \$1,000.00 is awarded to a student who is eligible for admission to a Bachelor's Program at a recognized University or Community College. Post-basic nurse applicants are required to be members of their Provincial/Territorial Nurses' Association and hold current registration or a Certificate of Competence. All applicants must have a St. John Ambulance Affiliation and must demonstrate financial need. The application deadline is March 15. Further information and applications forms is available in writing from St. John Ambulance Provincial Council or in writing to St. John Ambulance National Headquarters, 312 Laurier Ave. E., Ottawa, Ontario K1N 6P6 or by contacting Jean Wills, Deputy Director of Training Health Care by telephone to (613) 236-7461 or by fax to (613) 236-2425.

The Surgery Prize in Anatomy

This prize, valued at \$500.00, is awarded annually to a first-year student who has demonstrated a high proficiency in Anatomy, particularly in the practical field. Nomination of a candidate is made by the Professors of Anatomy and the Professor & Chairman of Surgery. The award is made by the Dean of Medicine's Advisory Committee on Scholarships, Awards and Bursaries.

The Patrick Tasker Masonic Educational Fund

This fund was established to provide financial assistance for the education of children of deceased, incapacitated and/or needy Masons who were or are members of participating Masonic Lodges in Newfoundland. The fund provides a limited number of scholarships (up to a value of \$800.00), payment of tuition fees for first-year students, and interest-free loans. In addition to the above, four entrance

scholarships of \$500.00 each are available to the dependants of any eligible member of the Masonic Fraternity within the province of Newfoundland and Labrador. These scholarships are awarded on the basis of academic achievement in Grade XII and are tenable at Memorial University of Newfoundland or at any other approved post-secondary institution in the province. Further information and applications forms is available in writing from The Patrick Tasker Masonic, Education Fund, P.O. Box 5481, St. John's, NL, A1C 5W4, ATTN: The Secretary.

Waterford Hospital Board of Management Scholarships

The Waterford Hospital Board of Management annually awards two scholarships, valued at \$500.00 each and tenable at Memorial University of Newfoundland, to children of employees of the Hospital. The awards are made on the recommendation of a Selection Committee especially appointed by the Board for that purpose. One of the scholarships is to be awarded to a female and the other to a male. Generally they are to be awarded to students who are entering the University for the first time. In the absence of suitable entrance applicants, the scholarships may be re-awarded or awarded to other children of employees who are beyond first year. In selecting suitable applicants academic standing as well as financial need will be taken into account. Applications for the scholarships may be obtained from the Administrator of the Hospital and must be completed and returned to that office by May 1st of any year.

The Western Memorial Regional Hospital Scholarship

This scholarship of \$500 is derived from interest on funds invested by the Medical Staff of the Western Memorial Regional Hospital and is awarded annually to a student who is entering the third year of medical studies at Memorial University of Newfoundland. The recipient shall be a bona fide resident of that area served by the Western Memorial Regional Hospital and shall have high academic standing. The scholarship is awarded by the Medical Staff of Western Memorial Regional Hospital in consultation with the Dean of Medicine. Applications should be made in July of each year to The Chief of Staff, Western Memorial Regional Hospital, P.O. Box 2005, Corner Brook, NL, A2H 6J7.

The Jacques Whitford Student Incentive Program

The student incentive program will provide a four month paid position with a \$2,000 award at the end of the work period. Both co-op work terms and summer positions will be considered. To be eligible candidates must be: full-time students with at least 50% of their credits achieved, have an 80% average, be fluent in English for all offices and fluent in French for the Montreal office, be legally entitled to work in the country to which they are making application and have excellent communication skills. Application forms for Memorial University of Newfoundland students are available from and should be returned to the office of the Associate Dean, Faculty of Engineering and Applied Science or the Faculty of Science. Applications must include: resume, official university transcript and a one page letter outlining candidate's aspirations. Deadline for application is January 31.

The Margaret Williams Trust Fund

This fund was established to promote the development of librarianship in Newfoundland and Labrador by providing funds for scholarships, research, special projects and work exchange opportunities. The value of awards will depend upon the annual interest earned on the fund. Further information and applications forms is available in writing from Chairman, Board of Trustees, Margaret Williams Trust Fund, Queen Elizabeth II Library, Memorial University of Newfoundland, St. John's, NL, A1B 3Y1.

Work Term Scholarships & Awards in Engineering

1. **W.W. Cossitt** - This award is intended for the Senior Engineering Student (Work Term 4, 5, & 6) who has made the most important contribution to an employer and therefore to the Co-operative Engineering Program. The award is made available by the Professional Engineers and Geoscientists of Newfoundland and Labrador (PEGNL) once per semester and has a monetary value of \$500. PEGNL issues the final award on the recommendation by the Dean, Faculty of Engineering and Applied Science and the Division of Co-operative Education. The Division's recommendation is based upon: a) Supervisor nomination; b) Student work performance; c) Student work report; d) Student academic standing (must be scholarship standing).
2. **PEGNL Eastern Chapter** - This award is intended for the Junior Engineering Student (Work Term 1, 2, & 3) who has made the most important contribution to an employer and therefore to the Co-operative Engineering Program. The award is made available by the Professional Engineers and Geoscientists of Newfoundland and Labrador (PEGNL) Eastern Chapter once per semester and has a monetary value of \$200. PEGNL, Eastern Chapter issues the final award on the recommendation by the Dean, Faculty of Engineering and Applied Science and the Division of Co-operative Education. The Division's recommendation is based upon: a) Supervisor nomination; b) Student work performance; c) Student work report; d) Student academic standing (must be scholarship standing).

10 Loan Funds

Maude Abbott Memorial Scholarship Loan Fund

This fund was established by the Federation of Medical Women of Canada. Small loans are available to any woman medical student or first-year intern. In special cases a loan of up to \$1000.00 may be granted to a medical woman for recognized post-graduate training. Loans are repayable within five years of date of issue, after which time interest will be charged at the rate of 5% compounded annually. Information regarding these loans may be obtained in writing to Secretariat, Federation of Medical Women of Canada, P.O. Box 8244, Ottawa, Ontario K1G 3H7.

The Association of Professional Engineers of Newfoundland Loan Fund

Established by the Association of Professional Engineers of Newfoundland for Engineering students during their time at this University. Apply to the Dean of Engineering and Applied Science, Memorial University of Newfoundland.

The Breezeway Emergency Trust Fund

In May, 1984, the Board of Directors of the Breezeway Bar gave to the University a sum of money, to be used as an emergency loan/bursary fund for needy undergraduate students. The Fund is administered by the Director, Student Support Programs through the Manager, Scholarships, Bursaries and Awards, and within guidelines already developed by the office for awards to financially needy students. These awards will not normally exceed \$300.00.

Canada Student Loans Program Newfoundland and Labrador Student Loans Program

The Government of Canada and the Government of Newfoundland and Labrador work together to provide student financial assistance to residents of the province. Students who have a demonstrated financial need may, upon application, may receive financial support from the Canada-Newfoundland and Labrador Student Financial Assistance Program. Students are encouraged to apply online at www.ed.gov.nl.ca/studentaid/ and to apply early.

Your eligibility to receive assistance will be determined by assessing your financial need. This is done by adding the costs of your education and living expenses, and then subtracting any money that may be available to you. This determines your assessed financial need - the amount of funding for which you may be eligible. The formula is: Costs - Available Resources = Assessed Need.

The provincial government provides funding for 40% of the amount assessed to a maximum total of \$140 per week of study; the federal government provides funding for 60% of the amount assessed to a maximum of \$210 per week of study (in some cases, eligible recipients of Canada Student Loans and Canada Student Grants may receive greater than \$210 per week of study in total federal assistance).

Receiving A Student Loan

- a. Step 1: Once you are approved to receive assistance, you will be sent a Master Student Financial Assistance Agreement (MSFAA). This agreement must be signed and sent to the National Student Loans Service Centre (NSLSC) and include all supporting documents.

Completing and Submitting the Master Student Financial Assistance Agreement (MSFAA):

Step 1 - Read the MSFAA!

Step 2 - Complete the required sections.

Step 3 - Take your MSFAA to a designated Canada Post outlet along with the following (for a list of designated Canada Post outlets, visit: www.CanLearn.ca):

1. Your Social Insurance Number card or a copy of your Canada Revenue Agency Notice of Tax Assessment;
 2. Official government issued photo identification; and
 3. A void cheque (if you do not have a cheque, your bank or credit union can help you complete the Electronic Funds Transfer section of the MSFAA).
- b. Step 2: Once NSLSC receives your MSFAA your educational institution must confirm your enrolment.
- c. Step 3: Once full-time enrolment has been confirmed, but no earlier than the first day of classes, eligible financial assistance will be deposited to your bank account. If you do not have a bank account, a cheque made payable to you will be mailed to the address you provide. All or a part of your financial assistance may be sent to your educational institution to pay fees owing. You will receive a letter from the NSLSC advising you of the amount of your disbursement that has been issued to you and/or your Educational Institution. You can also visit the NSLSC website at :www.CanLearn.ca for further information.

The disbursement to you and/or your institution may not occur simultaneously due to a difference between the federal and provincial deposit dates.

For more information on the Canada-Newfoundland and Labrador Student Financial Assistance program please visit online at www.ed.gov.nl.ca/studentaid/; in-person at Coughlan College on the St. John's Campus; by e-mail to studentaid@gov.nl.ca; by telephone to 1-888-657-0800 (toll-free) or (709)729-5849.

**Canadian Forces Personnel Assistance Fund
Education Assistance Loan Program**

1. The Canadian Forces Personnel Assistance Fund offers an Education Assistance Loan Program to assist serving and former members and their dependants with costs of full-time postsecondary education. This program consists of low interest loans of \$1,200 and \$1,500, then in \$500 increments up to a maximum of \$4,000 per student, per year, up to a maximum of \$16,000 lifetime per student. It should be noted that a period of 12 months must elapse before a new application can be considered.
2. Serving or former members are eligible to apply; they must have served in the Canadian Army, after 1st October 1946, or in the Canadian Forces, after 31 January 1968, and have a minimum of one year Regular Force military service. Selection may be based on family income, years of service and individual family circumstances.
3. Loans are repaid by the member over a twelve, twenty-four, thirty-six or forty-eight month period.
4. Application forms are available on our website at sisip.com/en/Downloads_e/ealp_e.asp, or from the Canadian Forces Base Financial Counsellors, district offices of Veterans Affairs Canada, and the Provincial Command offices of the Royal Canadian Legion. They may also be obtained by contacting the CFPAF office at 234 Laurier Avenue West, Ottawa, Ontario, K1P 6K6, telephone 6137603447 or toll free 8887539828.
5. For those who wish to obtain their loan in time for the semester beginning in September, your submission should arrive at CFPAF by 30 June. Otherwise, applications will be accepted throughout the year until the funds allotted for the EALP are exhausted.

The Gerald S. Doyle Engineering Scholarship Loan Fund

By the generosity of the late G.S. Doyle, Esq., O.B.E., there are a number of scholarship loans available each year to Engineering students. The loans are normally in the amount of \$500.00 per year, but may, when circumstances warrant, extend up to \$1,000.00 per year. The loans are made by the Dean of Students Affairs and Services on the recommendation of the Dean of Engineering and Applied Science. These loans may be granted for three successive years and are repayable at convenient times before graduation. Applications are available from the Office of the Associate Dean of Engineering and Applied Science.

Helen M. Lodge Loan Fund

The bequest of the late Professor Helen M. Lodge, formerly Professor of Education at this University.

F.W. Rowe Student Loan Fund

Based on royalties from Dr. Rowe's book, *The Development of Education in Newfoundland*. At the author's suggestion, priority is to be given to the children of active, retired or deceased teachers.

11 Scholarships, Bursaries and Awards Available to Graduate Students

11.1 Awards Administered By the School of Graduate Studies

Information on all graduate awards listed below can be obtained from the Dean of Graduate Studies.

Affinity NL (Ottawa) Scholarship

This scholarship is made possible by the fund raising efforts of the Ottawa Affinity Newfoundland and Labrador group and is valued at a portion of the income on the investment according to Memorial University of Newfoundland's Awards Program Spending Policy. Based on scholarship standing (academic excellence), it will be awarded in an alternating fashion to a first year undergraduate student (entering their second year) and then a first-year graduate student (entering the first year of either a Master's or Ph.D. program). The student must be from a rural community in Newfoundland and Labrador, express an interest in returning to work in rural Newfoundland, and be registered for full-time studies at Memorial University of Newfoundland. Rural is defined as outside St. John's and Corner Brook as determined by the Centre for Institutional Analysis and Planning, or an equivalent University or Government body. When awarded to an undergraduate student, the Scholarship will be awarded by the Senate Committee on Undergraduate Scholarship, Bursaries and Awards. When awarded to a graduate student, it will be awarded by the Dean of Graduate Studies upon the recommendation of the Awards and Medals Committee.

The Hira & Kamal Ahuja International Graduate Fellowship

The Hira & Kamal Ahuja International Graduate Fellowship, valued at a portion of the income on the endowment, has been established

by Hira Ahuja, a former faculty member in the Faculty of Engineering and Applied Science. The Fellowship will be awarded to three full-time international graduate students enrolled in the thesis-based program in the Faculty of Engineering and Applied Science. The fellowship will be awarded on the basis of academic excellence. Preference will be given to students who have served the East Indian community in Canada, through volunteer work. The Fellowships will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Engineering and Applied Science.

F.A. Aldrich Graduate Award

The F.A. Aldrich Graduate Award has been established in memory of the first Dean of Graduate Studies at Memorial University of Newfoundland. Up to three annual awards of \$2,000.00 may be made. Awards will be made by the Dean of Graduate Studies to alumni of Memorial University of Newfoundland who are in the first year of a full-time graduate program and will be based on academic merit, and need only if all other things are equal. If the application is based on need, please make a case.

Athletics Northeast (ANE) Running Club Award for Varsity Cross Country

This award was created by Avalon Northeast (ANE) Running Club, which is a community minded club made up of runners of all ages who embrace the concept of serious running as a way to enjoy an active and healthy lifestyle and to enhance their quality of life. The recipients will be one male and one female student, who are members of the cross-country team at Memorial University of Newfoundland and who are in clear academic standing. The recipient will have demonstrated leadership, commitment and dedication to the cross country program while endeavouring to maximize his/her running potential. For undergraduate students, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Director of Athletics, School of Human Kinetics and Recreation. In the event a graduate student is the recommended recipient, it will be awarded by the School of Graduate Studies on the recommendation of the Director of Athletics.

The Atreya-Haritha Scholarship in Mathematics

This scholarship is the result of a generous donation by Dr. K.R. and Nandinin Kothandaraman. Valued at \$1000 annually, it will be awarded on the basis of scholarship standing to a full-time student, either a senior level undergraduate or a graduate student in Mathematics and/or Statistics. In the case of an undergraduate student, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of Mathematics and Statistics. In the case of a graduate student, it will be awarded by the Dean, School of Graduate Studies, also upon recommendation of the head, Department of Mathematics and Statistics.

The William H. and Bertha Baird Memorial Scholarship

This scholarship, valued at the annual interest on the endowment, has been established by Mrs. Edna Baird-Stephenson in memory of her parents. It will be awarded to a full time graduate student at either the Master's or doctoral level. Eligible candidates should be residents of the province, or should have been resident in the province for at least three years prior to entering the program, excluding time spent at post secondary institutions. The award, based on academic excellence, will be made by the Dean, School of Graduate Studies on the recommendation of the Awards and Medals Committee.

The Barrowman Biochemistry Graduate Travel Awards

These awards are established by the generous donations of family and friends of the late Dr. Jim Barrowman to honor his contributions to research and graduate students at Memorial University of Newfoundland. Dr. James Barrowman was recruited to Memorial University of Newfoundland in 1975 as associate professor of gastroenterology and gastrointestinal physiology, was promoted to professor in 1979 and, in 1981, took on the role of the first assistant dean for Research and Graduate Studies (Medicine). The income from this endowment will be used to provide a number of awards to graduate students registered in the Department of Biochemistry, so that they may present their research at relevant scientific conferences. Preference will be given to full-time students, but part-time students will also be considered. The awards will be made by the Dean of Graduate Studies upon the recommendation of the Head, Department of Biochemistry.

The Barrowman Community Health Graduate Travel Awards

These awards are established by the generous donations of family and friends of the late Dr. Jim Barrowman to honor his contributions to research and graduate students at Memorial University of Newfoundland. Dr. James Barrowman was recruited to Memorial University of Newfoundland in 1975 as associate professor of gastroenterology and gastrointestinal physiology, was promoted to professor in 1979 and, in 1981, took on the role of the first assistant dean for Research and Graduate Studies (Medicine). The income from this endowment will be used to provide a number of awards to graduate students pursuing a research program in the Division of Community Health and Humanities, so that they may present their research at relevant scientific conferences. Recipients will have demonstrated high academic standing and research potential. The awards will be made by the Dean of Graduate Studies upon the recommendation of the Associate Dean, Research and Graduate Studies, Faculty of Medicine.

The George and Mary Behm Award

The George and Mary Behm Award, established by Dr. David Behm, is valued at \$500. It will be awarded annually to a full-time graduate student enrolled in the Masters of Kinesiology program who has the highest average in the first four master's courses of the M.Sc. Kinesiology program. The award will be made by the Dean of the School of Graduate Studies on the recommendation of the Dean, School of Human Kinetics and Recreation. It will be presented at the School of Human Kinetics and Recreation Awards Ceremony in November.

The Big Ben's Graduate Scholarship in Archaeology

This scholarship is funded through a generous annual contribution by Big Ben's to honor the amity and patronage of graduate students in Archaeology over the years. This scholarship is awarded annually to a full-time student enrolled in graduate studies in Archaeology. Candidates must be in the first two years of the Master's program or the first four years of the Doctoral program and must have at least scholarship standing. The award will be based on academic merit, with preference given to recipients with demonstrated leadership and public-spirited service to Memorial University of Newfoundland's graduate program in Archaeology. It will be awarded by the Dean, School of Graduate Studies based upon recommendation of the Head, Department of Archaeology.

The Dean M. Ian Bowmer Graduate Travel Award in Medicine

This award is made possible through the generous contribution of funds by Dr. M. Ian Bowmer, former Dean of the Faculty of Medicine at Memorial University of Newfoundland, as well as contributions by faculty and staff, to endow a graduate travel award in his name. This endowment will provide an annual award, valued at a portion of the income from the endowment, to a full-time graduate student pursuing a research program at the Masters or Doctoral level in the Faculty of Medicine, assisting the presentation of the student's research at a conference. The award will be competitive and based on an abstract or paper to be presented at the meeting. The award will be made by the Dean of Graduate Studies on the recommendation of the Associate Dean, Research and Graduate Studies, Faculty of Medicine. Application forms are available from, and should be submitted to, the Faculty of Medicine, Office of Research and Graduate Studies.

The Dr. Joe Brown Graduate Research Award in Aquatic Ecology and Aquaculture

This award was established to commemorate the life and work of Dr. Joe Brown through initial contributions by his family, friends, colleagues and students. As a Professor (Research) at the Ocean Sciences Centre from 1984 to 2005, Joe established a unique reputation both for his scholarly work in the areas of behavioural ecology of fishes and cold-water aquaculture and for his radiant,

passionate sense of humour, humanity and empathy, particularly concerning students. The award in support of research activities will be normally available annually to a full-time graduate student in the second or subsequent year of study in the areas of aquatic ecology or aquaculture, and is valued at a portion of the income from the endowment. Given on the basis of scholarly merit and quality of research, the award will be made by the Dean of the School of Graduate Studies upon recommendation from the Director of the Ocean Sciences Centre.

The David Buchan Graduate Research Award in Folklore

The Research Award is established in memory of Dr. David Buchan, a leading international ballad scholar, faculty member in the Department of Folklore from 1979 to 1994, and the first Memorial University of Newfoundland Research Professor. Administered by the School of Graduate Studies, two awards of \$500 will normally be given each year to fund costs related to national/international travel for the accomplishment of, or the presentation of, folklore research by students in the graduate program in folklore at Memorial University of Newfoundland. The awards, given on the basis of scholarly merit combined with the quality of a research proposal or conference paper abstract, will be made by the Dean of the School of Graduate Studies upon recommendation from the Head of the Department of Folklore, who will be advised by the Department of Folklore's Scholarships, Bursaries and Awards Committee.

Buchans Scholarship Fund of ASARCO Incorporated

ASARCO Incorporated has established a scholarship fund, the annual interest on which will provide for students enrolled in the Department of Earth Sciences, Memorial University of Newfoundland, either a scholarship for post-graduate study and research, valued at \$5000.00; or two scholarships for undergraduate study, valued at \$500.00 each. The latter scholarships will be available only when no suitable candidate can be found for the former. In order to qualify for these awards, students must be native-born Newfoundlanders or graduates of Newfoundland high schools. In the case of the graduate scholarship, the award will be made by the Dean of Graduate Studies on the recommendation of the Head, Department of Earth Sciences; in the case of the undergraduate scholarships, by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Head, Department of Earth Sciences. Should no candidates be available in any year, the awards may be held over.

The Maurice J. Burke Memorial Scholarship

This scholarship, valued at a portion of income on the investment, was established by the family of the late Maurice Burke. Mr. Burke served in the Provincial Department of Education in the Teacher Certification Division for thirty-five years. He was also a columnist and author with a personal and professional interest in Newfoundland culture and folklore celebrating the uniqueness of Newfoundland outport life. It will be awarded alternately to a full-time graduate or undergraduate student in the Department of Folklore on the basis of scholarship standing. In the case of undergraduates it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates it will be awarded by the Dean, School of Graduate Studies. In both cases the scholarship will be awarded on the basis of a recommendation from the Head, Department of Folklore.

The Dr. Alfred T.H. Burness Graduate Award in Medicine

The award is established by the generous donations of family and friends of the late Dr. Alf Burness to commemorate the thoughtful and patient graduate supervision and kindness provided by Dr. Burness (Division of Basic Sciences, Medicine 1976 – 1991) to graduate students in the Faculty of Medicine. The award is intended to encourage graduate students to produce work of outstanding quality.

The award will be given annually to a full-time graduate student pursuing a research program at the Masters level in the Faculty of Medicine who has successfully completed three semesters of the program. Selection will be based on course work, research, and other related accomplishments. Candidates must apply in writing, including a statement of eligibility as well as details of their area of research and progress, i.e. publications, presentations, other awards, etc. Each application must be supported by a reference from the candidate's supervisor verifying the candidate's area of research and progress to date. Applications should be submitted to, the Faculty of Medicine, Office of Research and Graduate Studies.

The award will be made by the Dean of Graduate Studies on the recommendation of a Committee including the Assistant Dean, Research and Graduate Studies (Medicine) and the Graduate Program Coordinators (Medicine).

Faculty of Business Administration Associates Scholarship Fund

This fund was established through the contributions of members of the Associates' Program of the Faculty of Business Administration. The fund will provide scholarships for undergraduate and graduate students in the Faculty. Awards will be made on the basis of academic standing but such factors as financial need and contribution to the Faculty may be taken into account. In the case of the undergraduate program, scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration. In the case of the graduate program, the scholarships will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Business Administration.

The Greg Campbell Memorial Business Scholarship

This scholarship is the result of a generous donation by Eleanor Swanson in memory of her late husband, J. Gregory Campbell. Interest on the fund will provide one award to a full-time graduate student in the Faculty of Business Administration who is entering the final year of study. Candidates for this scholarship must have scholarship standing and a demonstrated record of active community involvement, volunteer work and/or service in the faculty/University. If there are no suitable candidates in this category, the scholarship may be awarded to a candidate on the basis of academic standing. The scholarship will be awarded by the Committee on Graduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, School of Graduate Studies.

Canadian College of Teachers Scholarship

This scholarship, valued at \$1,000.00, is sponsored by the Cabot Chapter of the Canadian College of Teachers and is awarded annually to a full-time graduate student in the Faculty of Education for outstanding research. The award is made on the basis of application by a student or nomination by the student's supervisor. The application or nomination may take the form of a thesis or project proposal, but preferably be supported by an explanation of why the work involved is particularly meritorious. Applications should be forwarded to the office of the Associate Dean of Graduate Programs and Research, Faculty of Education. The scholarship will be awarded by the Dean, School of Graduate Studies, upon recommendation of the Dean, Faculty of Education.

The CFUW Edith Creighton Scholarship

This scholarship has been established by The Canadian Federation of University Women (CFUW) St. John's and is named after Edith Creighton (1892-1994); the first president of CFUW St. John's when it was formed in 1945. One scholarship, valued at \$2000, may be awarded annually, to a woman enrolled full-time in the Masters or Doctoral program in the Faculty of Education. To be eligible, candidates must have scholarship standing. The scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Education.

CFUW St. John's Scholarship for Women's Studies

This scholarship has been established by The Canadian Federation of University Women (CFUW) St. John's. One scholarship, valued at \$2000, may be awarded annually, to a woman enrolled full-time in the Master's program in the Department of Women's Studies. To be eligible, candidates must have scholarship standing. The scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Head, Department of Women's Studies.

The Dr. Jack Clark Graduate Award

This award was established in memory of Dr. Jack Clark who served as President and Chief Executive Officer of C-CORE from 1984 to 1997. The award will be valued at a portion of the income on the endowment and will be awarded annually. The award is available to any full-time graduate level student in the Faculty of Engineering and Applied Science who meets the minimum academic requirements for an award as defined by the University. Eligibility will be based on academic standing with preference given to those who have demonstrated financial need by presenting a case with their application. It will be awarded by the Dean of Graduate Studies upon the recommendation of the Dean, Faculty of Engineering and Applied Science.

Community Health Master's and Doctoral Student Awards

These graduate student awards are established by the Division of Community Health and Humanities in recognition that many students who wish to be full-time students in Community Health Programs are unable to do so because they do not have sufficient graduate student funding to meet the full-time criteria as required by the Office of Research and Graduate Studies, Faculty of Medicine. One masters and one doctoral research scholarship may be given annually to incoming thesis graduate students with a declared interest in pursuing full-time studies who do not have adequate funding (by way of scholarship, fellowship or faculty research money) to qualify for full-time status. These funds may be used alone or in conjunction with other student awards or partial supervisory funding to meet the full-time funding requirement of the Office of Research and Graduate Studies (Medicine). During the year of the award, it is expected that the student and supervisor will seek external funding to support the research program. Normally a student will be eligible to receive the scholarship only once her or his program. If a suitable candidate is not identified in one degree category, two research scholarships may be awarded in the same degree program or to a student in good standing in the second or subsequent year of his or her program. There will be one competition per year, coinciding with the Winter semester selections process. All incoming candidates accepted for M.Sc. and Ph.D. programs in the Division of Community Health and Humanities will be considered for the awards in accordance with the terms and conditions described above. The graduate program committee of CHH will make recommendations to Research and Graduate Studies (Medicine). The awards are made by the Dean of Graduate Studies on the recommendation of the Assistant Dean of Graduate Studies (Medicine).

The Rob Crosbie Scholarship for International Study

This fund was established from contributions to the University's *Opportunity Fund* Campaign by Mr. Rob Crosbie. The scholarship, valued at \$1,250.00 annually, will support a Business student (graduate or undergraduate) who is on an academic international exchange and who has shown interest in pursuing a career in the oil and gas industry. In the case of undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration. In the case of graduate students, it will be awarded by the Dean, School of Graduate Studies upon recommendation of the Faculty Committee on Graduate Studies.

The Sally Davis Scholarship

The Sally Davis Scholarship has been established to celebrate the memory and life work of Sally Davis. Contributions to the scholarship fund have come from family and friends who were so lovingly and generously influenced by Sally during her long life. The scholarship, valued at \$1000.00, will be awarded annually in the Spring Semester. Eligible candidates must be full-time students in the Master of Gender Studies program. Preference will be given to a candidate studying in one of the following areas: peace and international understanding, literacy, children, labour movement, gun control, or environment. If there is no qualified graduate applicant in a particular year, the award may be offered to an undergraduate (who is registered in a minor in Gender Studies who is in financial need. An individual may receive the award twice but no more. In the case of graduates it is awarded by the Dean of Graduate Studies upon recommendation of the Co-ordinator, Gender Studies Program. In the case of undergraduates, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Co-ordinator, Gender Studies Program.

The Department of Archaeology Scholarship

This scholarship, which is made possible by the Newfoundland Marine Archaeology Society, will be awarded annually to a full-time master's student, who is in his/her second year of study in the area of Archaeology. Valued at \$1,000.00 this scholarship will be awarded by the Dean of Graduate Studies based on a recommendation from the Head, Department of Archaeology on the basis of academic standing.

The Ernst R. Deutsch Memorial Scholarship in Geophysics

This scholarship is named in honour of Dr. Deutsch, a long-time faculty member at Memorial University of Newfoundland who passed away in 2000. Valued at a portion of the income on the investment the scholarship will be awarded annually to a senior undergraduate student in the Earth Sciences (or related field of Physics) whose concentration is Geophysics. If there is no qualified undergraduate student, the scholarship will be awarded to a full-time graduate student in Earth Sciences who has received an undergraduate degree from Memorial University of Newfoundland and whose area of concentration is Geophysics. It will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and a recommendation from the Head, Department of Earth Sciences in the case of an undergraduate student; in the case of a Graduate Student it will be awarded by the Dean of Graduate Studies on the recommendation of the Head, Department of Earth Sciences.

The Ruby Dewling Memorial Award in Nursing

This award has been created in memory of Ruby Dewling, a respected faculty member in the Memorial University of Newfoundland School of Nursing. Ms. Dewling taught in all areas of the program as a clinical instructor. She started her career by earning a diploma in Nursing from the General Hospital School of Nursing and then completing the post-RN diploma in clinical supervision from the University of Toronto. A lifelong learner, Ms. Dewling, went on to earn a B.Sc. from Mount St. Vincent and an M.Sc. (Medicine) from Memorial University of Newfoundland. She remained deeply involved with nursing education throughout her life and serves as an exemplary model for the nursing profession. The award, valued at a portion of the income from the endowment, will be presented annually to a graduate student in the School of Nursing who is completing research in, or who has a passion for, community health and who meets the minimum academic requirements for an award. Preference will be given to a full-time student. The award will be awarded by the Dean of Graduate Studies upon the recommendation of the Director of the School of Nursing.

The Dr. David Dibbon Leadership Scholar Award

The David Dibbon Award, valued at \$10,000 (\$5000 per year for two years), has been established by his family, friends, colleagues and students to commemorate the life and work of Dr. David Dibbon, Dean of the Faculty of Education, 2008-2010. David was committed to research focused on improving schools and school systems in Newfoundland and Labrador and elsewhere. He had great dreams of what public education could be. He was passionate about enabling schools to become better places for students to learn and for teachers to work. He was a transformational leader and change agent committed to collaborative partnerships and teamwork. He had a gift of innovative thinking, a visionary spirit, and the tenacious patience required to successfully lead meaningful educational reform. It will be awarded in alternating years to a doctoral student in educational administration who holds Dr. Dibbons ideals and has been accepted into Ph. D. studies in the Faculty of Education. \$5000 will be awarded in year one, when the student begins full-time studies. The second \$5000 will be awarded after successful completion of the oral comprehensive examination. The recipient will be as "The David Dibbon Leadership Scholar" and will be expected to share his or her research findings with practitioners. The award will be made by the Dean of Graduate Studies upon the recommendation of the Dean of Education.

Craig Dobbin Memorial Scholarship for Master of Business Studies at the Waterford Institute and Memorial University of Newfoundland

This scholarship has been established by Mr. Pat O'Callaghan, the Ireland Business Partnership, the Ireland Newfoundland Partnership, the Provincial Department of Education, and Craig Dobbin family members in memory of Mr. Craig Dobbin. It will be awarded on an annually rotating basis to students at The Waterford Institute of Technology (WIT) and Memorial University of Newfoundland. In year one, and every alternating year thereafter, the scholarship will be awarded to a recent honors graduate (in the past 2 to 3 years) of one of the undergraduate business programs in the Faculty of Business Administration program or Grenfell Campus, Memorial University of Newfoundland who is accepted into the Master of Business program, at the Waterford Institute of Technology, Waterford, Ireland. In the event that there is no such candidate, the scholarship will be awarded to two Memorial University of Newfoundland exchange students (undergraduate or graduate) to study (one academic term) at the Waterford Institute of Technology. In year two, and every alternating year thereafter, the scholarship will be awarded to an undergraduate student from the Waterford Institute of Technology who will be selected to attend Memorial University of Newfoundland's Faculty of Business Administration's M.B.A. program. In order for a WIT student to complete the program in one year, they must have an honors undergraduate business degree, or a business degree with significant academic standing. The student must meet Memorial University of Newfoundland's M.B.A. admission requirements. The student may take two years to complete the degree; however, scholarship funding will be available for one year only. In the event that no such student is selected from the Waterford Institute, then WIT will select a business undergraduate or graduate student to complete a student exchange (one academic term) at the Faculty of Business Administration or Grenfell Campus, Memorial University of Newfoundland. Scholarship recipients will be required to complete and present a report on an aspect of the Ireland Newfoundland Partnership. In the case of Memorial University of Newfoundland undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean, Faculty of Business Administration or the Principal of Grenfell Campus. In the case of Memorial University of Newfoundland graduate students, the scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Business Administration.

Eaton Foundation Scholarship

This scholarship, valued at \$1,500.00, is to be awarded to a student who has left full-time employment of five years or more to enter full-time studies in the MBA program, for completion or near completion of the degree. Selection of the candidate for the scholarship will be made on the basis of academic merit and financial need. Awards will be made on the recommendation of the Dean, Faculty of Business Administration, and the Dean of Graduate Studies. Preference will be given to Canadian citizens and permanent residents.

The Echos du Monde Classique/Classical Views Internship Fund

This fund jointly sponsored by the journal *Echos du Monde Classique/Classical Views* and the School of Graduate Studies, was established to support a full-time graduate student in Classics to train as an editorial intern with EMC/CV. It is awarded on the basis of academic standing to a full-time graduate student entering the Department of Classics and is valued at \$10,000.00 per annum, paid over a period of three successive academic semesters. It may be renewed for one additional year. The internship will be awarded by the Dean of Graduate Studies on the recommendation of the editors of *Echos du Monde Classique/Classical Views*.

Ethnomusicology Award for Field Research

This fund has been established by Beverley Diamond and Clifford Crawley to advance research in ethnomusicology in Canada on the occasion of the beginning of graduate studies in the field at Memorial University of Newfoundland. One or more awards, valued at a portion of the income on the investment, will be awarded annually to full-time graduate ethnomusicology students in clear academic standing who wish to pursue field research. Selection will be made on the basis of a submitted research proposal. Application forms and guidelines are available from and should be submitted to the School of Music. The deadline date for submissions of applications to the Chair of the Interdisciplinary Advisory Committee for Ethnomusicology is March 31. If there are no suitable candidates in a given year the awards will not be awarded. The awards will be awarded by the Dean, School of Graduate Studies on the recommendation of the School of Music's Scholarships and Awards Committee in consultation with the Interdisciplinary Advisory Committee for Ethnomusicology.

The Faculty of Business Administration Aboriginal Scholarship

A scholarship valued at \$500 will be awarded to an Aboriginal resident of Newfoundland and Labrador in the Faculty of Business Administration. Eligible students must be in scholarship standing, be enrolled as a full-time undergraduate or graduate student in the Faculty of Business Administration at Memorial University of Newfoundland and provide confirmation of their Aboriginal status. In the case of undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation from the Dean, Faculty of Business Administration. In the case of graduate students, the scholarship will be awarded by the Dean of Graduate Studies upon the recommendation from the Dean, Faculty of Business Administration.

The Faculty of Business Administration Jacinta Sheppard Fellowship

This fellowship, made possible through a donation by the Faculty of Business Administration, is in honour of Jacinta Sheppard, an MBA student who passed away in 1997 after a lengthy illness. While in the MBA program, Ms. Sheppard demonstrated academic excellence and a dedication to learning. This fellowship has a value of \$1,000.00 annually, and will recognize a full-time student who, in the opinion of a Selection Committee, Faculty of Business Administration, has demonstrated these same qualities. The award will be made by the Dean of Graduate Studies on the recommendation of the Dean, Faculty of Business Administration.

The Dr. Alex Faseruk MBA Scholarship for Excellence in Service

The Dr. Alex Faseruk MBA Scholarship for Excellence in Service will be awarded annually to a full-time MBA student of scholarship standing who has demonstrated outstanding service through participation in student, faculty or university activities and/or contribution to the larger community. This award is in recognition of Dr. Faseruk's contribution to the Faculty of Business Administration as Professor of Finance and Coach of MBA case competition teams. The value of this scholarship will be determined by the annual income derived from the endowment. It will be awarded by the Dean of Graduate Studies upon the recommendation of the Associate Dean, Academic Programs, Faculty of Business Administration.

The J. Bruce and Helen H. French Graduate Scholarship in Physics

This scholarship valued at the annual accrued interest on an initial endowment, will be awarded to a female student at any level of a graduate program in physics on the basis of excellence in both course work and research. If, in a particular year, a qualified female student is not available, the scholarship may be awarded to a male student who meets the other conditions. The scholarship will be awarded by the Dean of Graduate Studies upon the recommendation of the Head, Department of Physics.

The Fry Family Foundation MBA Leadership Scholarships

The Fry Family Foundation M.B.A. Leadership Scholarships, valued at \$2500 each will be awarded annually to full-time students in the M.B.A. program at Memorial University of Newfoundland. The awards will be given on the basis of academic excellence and leadership, and preference will be given to residents of Newfoundland and Labrador. The recipients of these scholarship should demonstrate a good interest in, and a strong commitment to, Newfoundland and Labrador. The scholarships will be awarded by the Dean, School of Graduate Studies, upon the recommendation of the Dean, Faculty of Business Administration.

The P.J. Gardiner Award for Small Business and Entrepreneurship

This fund was established from contributions to the University's Anniversary Fund to commemorate the memory of the late Peter Gardiner, a former Director of Memorial University of Newfoundland's School of Business and a local entrepreneur. This award is valued at \$5,000.00 annually and will recognize student creativity, innovation and entrepreneurship as evidenced by a student's genuine interest in small business and entrepreneurship through the establishment or the intention to establish a new venture. Students in any program of study (graduate or undergraduate) are eligible. To apply for the P. J. Gardiner Award, students are to provide a written report or plan describing their venture. Award finalists will then be asked to make an oral presentation to the Award Selection Committee. The Award Selection Committee will consist of faculty members from the Faculty of Business Administration and the business community at large. In the case of undergraduate students, the awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards acting on the recommendation of this panel. In the case of graduate students the awards will be made by the Dean, School of Graduate Studies upon the recommendation of the Committee on Graduate Studies of the Faculty of Business Administration.

The Peter Gardiner Award for International Study

This fund was established from contributions to the University's Anniversary Fund to commemorate the memory of the late Peter Gardiner, a former Director of Memorial's School of Business. Interest from the fund will provide or two annual awards of \$2,500.00 each to support Business students (graduate and/or undergraduate) to study at Memorial University of Newfoundland's Harlow Campus or at another university outside Canada. In the case of undergraduate students, the awards will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Dean, Faculty of Business Administration. In the case of graduate students, the awards will be made by the Dean of Graduate Studies upon recommendation of the Faculty Committee on Graduate Studies.

Graduate Students' Union Award for Academic Excellence

The award, valued at a portion of the income from the endowment, has been established by the Graduate Students' Union (GSU) of Memorial University of Newfoundland to provide financial assistance and recognize outstanding contributions by graduate students. The GSU Award for Academic Excellence will be awarded annually to a full-time graduate student in any discipline at either the masters or doctoral level. Applicants must have a strong academic record, and have made significant contributions to their field of study. The Award, based on financial need and academic excellence, will be made by the Dean of the School of Graduate Studies on the recommendation of the Awards and Medals Committee.

Graduate Students' Union Award for Leadership

The award valued at a portion of the income from the endowment, has been established by the Graduate Students' Union (GSU) of Memorial University of Newfoundland to provide financial assistance and recognize outstanding contributions by graduate students. The GSU Award for Leadership will be awarded annually to a full-time graduate student in any discipline at either the masters or doctoral level. Applicants must have demonstrated leadership ability, either through participation in student and university activities, and/or contribution to the larger community. The Award, based on financial need and outstanding leadership, will be made by the Dean of the School of Graduate Studies on the recommendation of the Awards and Medals Committee.

The Keith Griffiths Memorial Heart and Stroke Foundation Graduate Scholarship

This scholarship, established through a generous contribution by the Griffiths family, in partnership with the Heart and Stroke Foundation of Newfoundland and Labrador, is valued at \$1000 per annum. The Griffiths family has established this scholarship in memory of their father, Keith Griffiths, a stroke survivor and dedicated volunteer. The scholarship will be awarded to a full-time graduate level student in the Faculty of Medicine, who is pursuing a research program in stroke and neurological issues related to stroke. Candidates must apply in writing, providing a statement of eligibility, as well as details of their area of research, and progress. The award will be made by the Dean of Graduate Studies on the recommendation of a committee including the Assistant Dean, Graduate Studies (Medicine) and the Graduate Program Coordinators (Medicine).

The Mary A. Griffiths Memorial Bursary Fund for Folklore Field Research (Graduate)

This fund has been established by the Memorial University of Newfoundland Folklore Society in memory of Mary A. Griffiths, B.A. (Folklore). One of more bursaries valued at a minimum of \$250.00 each will be awarded annually to graduate Folklore students who wish to pursue field research. The awards will be made by the Dean of Graduate Studies on the recommendation of the Head of the Department of Folklore. Selection will be made on the basis of a submitted research proposal as well as demonstrated financial need. Application forms and guidelines are available from and should be submitted to the Folklore Department. Deadline date for submission of applications is January 31. If there are no suitable candidates in a given year the bursaries will not be awarded.

The Professor Elmer Harp Jr. Legacy Collection's Award

Dr. Elmer Harp Jr. was one of Newfoundland and Labrador's pioneer archaeologists. He conducted influential research on the Northern Peninsula and the Strait of Belle Isle, with a primary focus on Port au Choix. This award is given annually to a full-time student enrolled in graduate studies in Archaeology at Memorial University of Newfoundland. Preference will be given to candidates conducting thesis research using Dr. Harp's legacy artifact collections from Port au Choix. It will be awarded by the Dean of Graduate Studies based upon the recommendations of the Head, Department of Archaeology.

The Michael Harrington Research Prize in Newfoundland History

This award was established by the family of Michael Francis Harrington Sr., journalist, author and Newfoundland historian. The prize is valued at a minimum of \$500.00 and will be awarded annually to an undergraduate or graduate student doing research in Newfoundland history. To be considered, undergraduate students must be history majors planning to do research for a course in Newfoundland history or towards an honours thesis. Graduate students must be writing a thesis on some aspect of Newfoundland history. In some instances it may be awarded as a travel grant which will assist students with travel expenses incurred while undertaking their research. In the case of undergraduates it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon recommendation of the Head, Department of History. In the case of graduates it will be awarded by the Dean, School of Graduate Studies, also upon recommendation of the Head, Department of History.

The Professor Peter Hart Memorial Scholarship

This scholarship has been established in memory of Canada Research Chair in Irish Studies and Department of History Professor, Dr. Peter Hart. His work was marked by a commitment to writing well and accessibly, and by his innovative approach to research and analysis – in particular for opening up new questions through his application of social science methods and concepts to problems of Irish history. The scholarship, valued at a portion of the income on the investment, will be awarded annually to a full-time doctoral student in the Faculty of Arts. Candidates must meet the minimum academic requirements for the scholarship as defined by the University and applications must include academic transcripts, a research statement of no more than 500 words, a writing sample, two letters of reference and an academic CV. In the event of more than one eligible candidate, preference will be given to a student whose research focus falls into one or more of the following areas: Irish history or politics; Newfoundland and Labrador history or politics; political violence; or revolution. The Scholarship will be awarded by the Dean, School of Graduate Studies, on the recommendation of the Awards and Medals Committee.

The Dr. Austin J. Harte Memorial Scholarship

The Dr. Austin J. Harte Memorial Scholarship commemorates the memory of Austin Harte who was a member of the Faculty of Education, Memorial University of Newfoundland from 1991-1995. The scholarship, which is valued at one thousand dollars (\$1,000.00), may be awarded annually to a student in a graduate program, in the Faculty of Education. In order to be eligible for consideration, candidates must be registered full time and satisfy all other conditions as stipulated by the University. The Scholarship will be awarded by the Dean, School of Graduate Studies upon the recommendation from the Dean, Faculty of Education. A special application is required and may be obtained from the Faculty of Education and/or the School of Graduate Studies. Deadline for Application: March 15.

A.G. Hatcher Memorial Scholarship

Normally, up to three A. G. Hatcher Memorial Scholarships are awarded annually commencing in the Fall Semester. The awards are to be made solely on the basis of high academic merit. Typically a minimum of a first class degree is required. One scholarship shall be awarded to an applicant who graduated with an undergraduate degree from Memorial University of Newfoundland, one to an applicant who graduated with an undergraduate degree from a Canadian university, and, one to an applicant who graduated with an undergraduate degree from a foreign university. The value of the scholarship is \$15,000, and it may be held for one year only. Recipients holding a major external award of \$15,000 or greater will retain \$3,000 of the A. G. Hatcher Memorial Scholarship. One nomination from each category listed above, for these awards, should be forwarded to the Dean or Director by June 1st. Deadline for the Dean or Director to submit nominations to the School of Graduate Studies is June 15th.

The Rolf G. Hattenhauer Scholarship Fund

This fund was established by the Labour Management Co-operation Committee to commemorate the late Professor Rolf G. Hattenhauer, a well-known Newfoundland arbitrator who was actively involved in setting up the Committee. Professor Hattenhauer was a member of the Department of Commerce (later the Faculty of Business Administration) at Memorial University of Newfoundland from 1965 until his death in 1983, and during the year 1969-70 served as Head (pro tem) of the Department. The fund will provide scholarships and fellowships on a rotating basis in undergraduate and graduate studies in Business Administration.

In the case of the undergraduate scholarships, preference will be given to students in Terms 6 and 7 of the Bachelor of Commerce program who are majoring in Labour Relations. These scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Business Administration.

In the case of the graduate fellowships, preference will be given to those students in the Master of Business Administration program who are concentrating in or conducting research on the area of personnel and industrial relations. The graduate fellowships will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Business Administration. If a suitable graduate student is not available in a given year the scholarship for that year may be awarded to an undergraduate student.

The Heart and Stroke Foundation Graduate Scholarship

This scholarship, established through a generous contribution by the Heart and Stroke Foundation of Newfoundland and Labrador, is valued at \$1000 per annum. The scholarship will be awarded to a full-time graduate level student in the Faculty of Medicine, who is pursuing a research program related to heart health or heart disease. Candidates must apply in writing, providing a statement of research, supported by a reference letter from the applicant's supervisor verifying the area of research and progress to date. Consideration will also be given to the student's course work, research and other related accomplishments. Applications shall be submitted to the Faculty of Medicine, Office of Research and Graduate Studies. The scholarship will be awarded by the Dean of Graduate Studies on the recommendation of a committee including the Assistant Dean, Graduate Studies (Medicine) and the Graduate Program Coordinators (Medicine).

The Jim Hood Memorial Scholarship

This scholarship was established through the generous bequest of Jim Hood, an alumnus and friend of the Faculty of Business Administration. Valued at a portion of the income on the investment, the scholarship is open to full-time undergraduate and graduate students in the Faculty of Business Administration who meet scholarship standing and who have been active in athletics at Memorial University of Newfoundland and/or in the community. In the case of the undergraduate student, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of Business Administration. In the case of the graduate student, the scholarship will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of Business Administration.

The Imperial Tobacco Canada Limited Graduate Scholarship in Business Studies

This Scholarship, valued at a portion of the income on the pre-existing endowment, was established from a generous donation made by Imperial Tobacco Canada Limited in 2000-2001. Two awards will be made annually to entering full-time M.B.A. students. This Scholarship may include, at the discretion of the donor, an invitation to their head office to meet their management team. Selection of the candidates will be made on the basis of academic merit. The award will be made by the Dean, School of Graduate Studies upon the recommendation of the Dean, Faculty of Business Administration.

The Dr. Ethel M. Janes Memorial Scholarship in Education (Graduate)

From a sum of money endowed to Memorial University of Newfoundland by the late Dr. Ethel M. Janes, one scholarship valued at \$2,000.00 will be awarded annually on the basis of scholastic achievement. Dr. Janes, a Professor of Education at Memorial University of Newfoundland for twenty-eight years, devoted most of her professional career to study, research and teaching in primary and elementary education. Her contribution to the development of primary and elementary teacher education programs within the faculty was significant, as was her influence on primary and elementary education in the schools. Two generations of prospective teachers were her students. This scholarship will be awarded on the basis of academic standing in a first Memorial University of Newfoundland Education degree to a graduate student with a specialization in reading or language arts. In the event that in any given year no graduate student qualifies for the award, this scholarship will be awarded to an undergraduate student. Instalments of \$1,000.00 each will be awarded in two successive academic terms; and the scholarship is renewable for two years, provided first-class standing is maintained. This award will be made by the Dean of Graduate Studies upon the recommendation from the Dean, Faculty of Education.

The JUNO Legacy Graduate Scholarship in Music

This scholarship was established by the 2010 JUNO Awards Host Committee to support excellence in music. This scholarship, valued at \$2,000 will be awarded annually to a full-time graduate student at the School of Music enrolled in the Master of Music (M.Mus.) program. The recipient must meet the minimum academic requirements for a scholarship as defined by Memorial University of Newfoundland. It will be awarded by the Dean, School of Graduate Studies on the recommendation of the Director, School of Music.

Law Foundation of Newfoundland and Labrador Legal Research Awards for Students of Memorial University

The Law Foundation of Newfoundland and Labrador annually offers up to five Legal Research Awards valued at \$500 each to students at Memorial University of Newfoundland. The Awards are for outstanding research papers on one or more legal issues, or topics treated in a legal context, in a senior level course in any discipline at the undergraduate level and in any graduate course for students at the graduate level. The papers submitted by and with endorsement of course professor or lecturer will be judged initially by the Dean, Director, or Department Head who will make a recommendation to a special selection committee comprised of appointees of Memorial University of Newfoundland and the Law Foundation. Undergraduate students will receive a minimum of two and graduate students will receive one or more of the five Awards available annually. In the case of undergraduate students the Awards will be made by the Senate

Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduate students the Awards will be made by the Dean, School of Graduate Studies. In both cases they will act upon the recommendation of the Foundation's selection committee. Please note that papers, if available on computer, must also be submitted in electronic format. An additional \$500 will be provided annually by the Law Foundation to Queen Elizabeth II Library for the purchase of research materials and resources. Total Awards \$3,000.

The LGL Limited Scholarship in Marine Science

This scholarship, valued at \$1,000.00, was established by LGL Limited. It will be awarded annually to a student in the Faculty of Science who is following a program of studies related to Marine Science. The successful candidate will be either a fourth year undergraduate student doing an honours program or a graduate student. Wherever possible, preference will be given to a student from a fishing family, but other students will be considered. In the case of undergraduate students the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies. In both cases it will be based upon a recommendation from the Dean, Faculty of Science.

The Dr. Jon Lien Memorial Scholarship

This entrance scholarship was established to commemorate the life and work of Dr. Jon Lien, C.M., O.N.L., through initial contributions by his friends, colleagues, students and family. Through his work at Memorial University of Newfoundland (1968-1996) Dr. Lien became an international leader in marine conservation and animal behavior. His pioneering methods to release entrapped whales from fishing gear – including the development of acoustic alarms to warn whales away from such entrapments – earned him unequalled respect with both fishermen and scientists around the globe. His work brought talented students to Memorial University of Newfoundland, empowering them by demanding excellence and maximum commitment while strongly believing in their potential. A substantial contribution to the scholarship was provided by family and friends of Dr. Dean Renouf, a student of Jon's, who passed away in 1993. In the spirit of collaboration that Jon held dear, this scholarship will honour the memories of both mentor and student. Dr. Renouf was instrumental in establishing the Cognitive and Behavioral Ecology program at Memorial University of Newfoundland and was a noted marine mammal ecologist in her own right. The scholarship will be awarded to a full-time entering graduate student undertaking studies in marine animal behavior, marine conservation, coastal community revitalization or a current fishery challenge. The scholarship will be valued at a portion of the income from the endowment and will be awarded by the Dean of Graduate Studies upon recommendation from the Dean of Science.

The Maritime Awards Society of Canada (MASC) Maritime Studies Scholarship

The Maritime Awards Society of Canada has established an annual scholarship tenable at Memorial University of Newfoundland. The successful candidate will be a Canadian citizen studying in a "maritime based" program at either the Masters or Doctoral level. This scholarship will have a value of at least \$5,000.00 a year and in some cases may be renewed for a second year. It will be awarded by the Dean of Graduate Studies upon the recommendation of the appropriate Academic Unit.

Maritime History Internship

This fund, jointly sponsored by the Canadian Nautical Research Society and the School of Graduate Studies, is designated to support a graduate student in history to train as an editorial intern with the journal *The Northerner Mariner/Le Marin du nord*. It will be awarded on the basis of academic standing to a graduate student pursuing studies in the area of maritime history. The award will normally be made to an entering student, but may be made to a student already enrolled in the graduate program. Valued at \$12,000.00 per year, it will be paid over a period of three successive academic semesters and may be renewed. Masters students may be renewed for one additional year and doctoral students may be renewed for up to two additional years. The internship will be awarded by the Dean of Graduate Studies on the recommendation of the editors of *The Northerner Mariner/Le Marin du nord* and the Department of History.

The Edgar Raymond Martin Memorial Scholarship in Music

This scholarship, valued at the annual interest on the endowment, has been established by Mrs. Helen MacLeod in memory of her brother Edgar Martin. Edgar completed a Bachelor of Science at McGill University, Montreal in 1942 and died later that year while returning to St. John's aboard the S.S. Caribou which was torpedoed, causing the loss of 137 lives. Edgar was 19 years old and had a profound love for classical music. In his memory, this scholarship will be awarded to a full time graduate student in the School of Music. It will be awarded by the Dean, School of Graduate Studies based on a recommendation from the Dean, School of Music.

James and Muriel Martin Award in Music

The James and Muriel Martin Award was established through a generous gift to the School of Music by Mrs. Helen MacLeod, on behalf of her parents. James and Muriel Martin, lifelong residents of St. John's, Newfoundland, were enthusiastic participants in the local music scene in the early half of the twentieth century. The award, valued at a portion of the income on the investment, will be given annually to a full-time graduate student (MA or PhD) enrolled in the ethnomusicology program, with preference to a student whose focus is on the research, collection or preservation of music in Newfoundland and Labrador. It will be granted by the Dean, School of Graduate Studies on the recommendation of the Dean, School of Music.

The Margaret D. McLean Scholarship

The Margaret D. McLean Scholarship, valued at the annual accrued interest on the initial endowment, is awarded to a graduate of the basic Bachelor of Nursing Program of Memorial University of Newfoundland. The successful candidate must be enrolled in a doctoral program of Nursing (or related field). In the event that an appropriate application from a doctoral candidate is not available, students enrolled in a Master's Program in Nursing (or related field) who intend to obtain a doctorate, may be considered. The scholarship will be based on academic excellence in the Bachelor of Nursing Program and in any graduate courses completed. It will be awarded by the Dean of Graduate Studies upon recommendation of the Dean, School of Nursing.

Master of Women's Studies Graduate Travel Award

Funded through generous contributions to the Department of Women's Studies, this award is available bi-annually (one time in each of the Fall and Spring semesters) to full-time or part-time students enrolled in the two-year Master of Women's Studies (MWS) program. This award is established to assist with travel to scholarly conferences for the purpose of presenting academic papers and/or posters. Successful applicants must be enrolled in the first two years of the MWS program and must submit the following criteria, with a copy of the Graduate Student Request for Travel Assistance form, to the Department of Women's Studies: acceptance of a paper/poster presentation, written support of co-supervisors, relevance to the students' program of study and the estimated cost of travel. Students must meet the minimum academic requirements for an award and are eligible to receive this award one time only during the enrolment in the two-year MWS program. The deadlines for submission are December 1st and May 1st for the Fall and Spring semesters respectively. Successful applicants are eligible to receive up to \$100 for travel within North America and up to \$200 for travel outside of North America. It will be awarded by the Dean of Graduate Studies based on the recommendation of the Graduate Coordinator who will be advised by the Graduate Studies Advisory Committee.

The Medical Graduate Students' Society Scholar and Community Involvement Award

The Medical Graduate Students' Society of the Faculty of Medicine wishes to support graduate students in medicine through two annually funded awards. The awards will be given in the Fall of each year to full-time current graduate level students in the Faculty of Medicine, one to a Master's student and one to a Ph.D. student. Candidates must apply in writing providing a statement of eligibility as

well as details of their area of research and progress, a CV and a written paragraph about the candidate's community involvement and participation in extracurricular activities must also be included. The Award will be made by the Dean of Graduate Studies on the recommendation of a Committee including the Assistant Dean, Graduate Studies (Medicine) and the Graduate Program Coordinators (Medicine).

The Medical School Essay Graduate Student Award

The Medical School Essay Graduate Student Award is supported by the K.B. Roberts Scholarship Fund, which was established in appreciation of the contribution made to the Faculty of Medicine by Dr. Kenneth Roberts. The award, valued at a portion of the income on the endowment, will be awarded annually to any graduate medical student registered full-time in the current academic year following a competition in the form of an original essay or short monograph pertaining to any aspect of medicine or the medical sciences. The essay, not exceeding 5,000 words, should include an interpretative element that indicates the importance and relevance to Medicine, Health and Society. Should there be two essays that are of very high caliber but one is obviously the better provision may be made for an honourable mention award of lesser value. Submission deadline is July 31, in any given year, to the Office of Student Affairs HSC Room 2713. The award is made by the Dean of Graduate Studies on the recommendation of the Dean's Advisory Committee on Awards, Bursaries and Scholarships in the Faculty of Medicine.

The Gordon Mertz Memorial Fellowship in Physical Oceanography

This fund was established as a memorial for Dr. Gordon Mertz by his family. Dr. Mertz was a Physical Oceanographer at the Northwest Atlantic Fisheries Centre of the Department of Fisheries and Oceans. Interest from the fund will be used to provide a fellowship which will be awarded annually on the basis of academic excellence to a full-time graduate student working in an area of Physical Oceanography with applications in Fisheries Oceanography or Marine Ecology. The fellowship will be awarded by the Dean of Graduate Studies upon recommendation of the Head, Department of Physics and Physical Oceanography.

The W.F. Morneau Scholarship

This scholarship, valued at the interest on the initial endowment will be awarded by the Dean, School of Graduate Studies upon the recommendation of the Dean, Faculty of Business Administration to a Newfoundland student who has been granted direct entry on a full-time basis to Term 3 of the Master of Business Administration Program and who has exhibited a high level of ambition. Financial need may also be taken into consideration when awarding this scholarship.

The Shree Muly Community Health Graduate Student Award

This graduate student award is established through the generous support of Dr. Shree Muly, Associate Dean and Professor, Division of Community Health and Humanities, Faculty of Medicine. It is created to help students who wish to be full-time in the Community Health Programs meeting the funding requirements of the Office of Research and Graduate Studies, Faculty of Medicine. One graduate research scholarship will be given annually to incoming thesis graduate students with a declared interest in pursuing full-time studies who do not have adequate funding (by way of scholarship, fellowship, or faculty research monies) to qualify for full-time status. These funds may be used alone or in conjunction with other student awards or partial supervisory funding to meet the full-time funding requirement of the Office of Research and Graduate Studies (Medicine). During the year of the award, it is expected that the student and supervisor will seek external funding to support the research program. Normally a student will be eligible to receive the scholarship only once during her or his program. There will be one competition per year, coinciding with the Winter semester selection process. All incoming candidates accepted for the M.Sc. and Ph.D. programs in the Division of Community Health and Humanities (CHH) will be considered for the award in accordance with the terms and conditions described above. The graduate program committee of CHH will make recommendations to Research and Graduate Studies (Medicine). The award will be made by the Dean of Graduate Studies on the recommendation of the Assistant Dean of Graduate Studies (Medicine).

The Neil Murray Graduate Research Award in Folklore

The Research Award, sponsored by the Newfoundland and Labrador Arts Council, is established to commemorate the energy of Neil Murray in his encouragement and promotion of our provincial folk music traditions. Open to students currently registered in the graduate program in folklore at Memorial University of Newfoundland, two awards of \$250, or one of \$500, will normally be given each year. These awards are designed to fund costs related to the accomplishment of, or the presentation of, research on the traditional performing arts in Newfoundland, including song, dance, drama, or narrative and/or the cultural traditions of the Newfoundland fishery. The awards, given on the basis of demonstrated academic merit and a research proposal or conference paper abstract demonstrating original, creative and innovative thought, will be made by the Dean, School of Graduate Studies upon the recommendation of the Head, Department of Folklore, who will be advised by the Selection Committee. Applications should be directed to the head, Department of Folklore. The deadline for application is March 1st each year.

The National Scholarship in Ocean Studies at Memorial University of Newfoundland

The federal Department of Fisheries and Oceans (DFO) has helped to establish The National Scholarship in Ocean Studies to be awarded to an outstanding Ph.D. candidate in an aspect of ocean studies which may include: chemistry, biochemistry, biology, physics, earth sciences, geography, economics or engineering. The award valued at \$18,000 per annum for a maximum of three successive years may be held in conjunction with other major awards. The award is made only on the basis of academic excellence and the successful candidate must exhibit and maintain first-class standing. Guidelines and applications for the scholarship are available from the School of Graduate Studies. Final selection of the candidate will be made by a committee which reports to the Dean of the School of Graduate Studies. A one-time grant of up to \$2,000 may be made in support of travel to appropriate conferences where the student is presenting research findings. Deadlines for applications will be July 1 in any one year when the scholarship is available, and application should be made on appropriate forms available from the School of Graduate Studies.

The Newfoundland and Labrador Neurotrauma Initiative Award

This award, valued at a portion of the income on the investment, is made possible by a generous endowment from the Newfoundland and Labrador Neurotrauma Initiative Program, a partnership between the Rick Hansen Man in Motion Foundation, the Canadian Paraplegic Association, the Brain Injury Association and the Government of Newfoundland and Labrador. The award will be available on an annually rotating basis between undergraduate and graduate students, with first preference given to a student who has been identified with a brain or spinal cord injury. For undergraduate students applications are available from the Scholarships, Bursaries and Awards Office, Room UC4018, University Centre, (709) 864-3956. Graduate Students are required to apply specifically to the School of Graduate Studies, Room IIC 2021, Bruno Centre for Research and Innovation, (709) 864-2600. If no candidate is available with a brain or spinal cord injury, preference will be given to a student who is studying in any field related to neurotrauma. If it is not awarded at the level of study (i.e. graduate/undergraduate) on rotation in a given year, it may be awarded to a student studying at the other level for that year. In the case of undergraduates, the award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates it will be awarded by the Dean, School of Graduate Studies on the recommendation of the Awards and Medals Committee. This award is open to part-time or full-time students with clear academic standing.

The Elizabeth A. Newlands Memorial Scholarship in Social Work

This scholarship has been named to honour the late Mrs. Elizabeth Newlands, one of the first graduates of the B.S.W. Program at Memorial University of Newfoundland. Valued at a minimum of \$1,000.00 annually, it will be awarded on the basis of academics to either a graduate or undergraduate student enrolled in the School of Social Work. If granted to an undergraduate the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. If awarded to a Graduate Student, it will be

awarded by the Dean, School of Graduate Studies. In either case the scholarship will be awarded on the basis of an appropriate recommendation from the Dean, School of Social Work.

The Nopah Consulting Limited Bursaries in Earth Sciences

Three bursaries, valued at \$2,500 each, will be awarded annually to full-time graduate students who are enrolled in a masters program in the area of geology and whose topic of research is directly related to Newfoundland and Labrador. These bursaries will be awarded on the basis of demonstrated financial need and academic standing. They are tenable at Memorial University of Newfoundland and may be renewable for a second year. They will be awarded by the Dean of Graduate Studies, on the recommendation of the Head, Department of Earth Sciences.

Dermot O'Reilly Legacy Award

The award, valued at a portion of the income on the investment, is established through funds raised by family, friends and music lovers, in Dermot O'Reilly's memory after his untimely passing in 2007. Dermot chose to make Newfoundland his home in 1971 where he found here a kinship to the Dublin of his youth in the people, music and songs. Here, his life was music. He delighted in sharing music with others and was a mentor to many aspiring musicians. Dermot's friends and family carry on his legacy by creating this award to encourage and support the promotion of traditional music, oral tradition and dance in Newfoundland and Labrador. It will be given annually to a part-time or full-time student at Memorial University of Newfoundland enrolled in any year of any program of study that meets the academic requirements for an award as outlined by the University. Eligibility should be based on established support of traditional music, oral tradition or dance amongst Newfoundlanders and Labradorians. The successful candidate will be determined at the discretion of the Dermot O'Reilly Legacy Award Selection Committee and will have made evident, either through actions or creative undertakings, contributions to the province by demonstrating leadership and creativity in the tradition-bearer community. To be considered, candidates must apply no later than February 1. Applications are available at the Undergraduate Scholarships and Awards Office and the School of Graduate Studies and must be accompanied by a resume of all relevant information including but not limited to: publications, research, recordings, projects, performances, etc. It will be awarded by either the Senate Committee on Undergraduate Scholarships, Bursaries and Awards or the Dean, School of Graduate Studies as appropriate based on the recommendation from the Committee.

The Senator Gerald R. Ottenheimer Language Scholarship

This scholarship, valued at the annual interest on the initial endowment, has been established via *The Opportunity Fund* in memory of Senator Ottenheimer through the generosity of White Ottenheimer & Baker, Barristers & Solicitors. It will be awarded on a rotating basis to students majoring in one of the language programs or the English Language and Literature programs at Memorial University of Newfoundland (graduate or undergraduate). At the undergraduate level it will be awarded on the basis of scholarship standing to a student in second year or beyond who plans to pursue one of the above noted areas of specialization. In the case of graduate students it will be awarded to a full-time student doing the Masters of Arts in one of the disciplines noted. If the successful candidate is an undergraduate, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. If the winner is a graduate student, it will be awarded by the Dean, School of Graduate Studies. In both cases it will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

The Stuart O. Pierson Prize

The Stuart Pierson prize, valued at a portion of the annual interest, will be awarded annually on the joint recommendation of the Head of the History department and the Co-ordinator of the Masters of Philosophy program in Humanities. Eligible students will be enrolled full time, in either the Masters of Philosophy Humanities program, or in the MA or BA Hons. programs in History. Preference will be given to students who show particular promise in the history of ideas, historiography, or the history of science. In the case of undergraduate students, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduate students, it will be awarded by the Dean, School of Graduate Studies.

The Dennis R. Prince Memorial Scholarship

The Dennis R. Prince Memorial Scholarship has been made available by the Prospectors and Developers Association of Canada, Falconbridge Ltd., the Porcupine Prospectors and Developers Association, the mining community, colleagues, friends and family of the late Dennis Prince. Dennis graduated from Memorial University of Newfoundland in 1970 with a B.Sc. Honours degree. He led a distinguished career as a geologist with twenty-nine years at Falconbridge Ltd.

The annual scholarship, valued at \$2,000.00 and an engraved Brunton compass, will be awarded to a final year student specializing in mineral exploration and development in the honours program of the undergraduate degree in Earth Sciences at Memorial University of Newfoundland. If there is no qualified undergraduate student a graduate student who has been accepted for post-graduate studies in mineral exploration and development at Memorial University of Newfoundland and who intends to pursue a career in the mineral industry, will be considered. The qualifying student must demonstrate scholarship standing, strong personal values including a strong work ethic and high personal integrity. Active participation and leadership in geological associations and activities such as The Alexander

Murray Geology Club and the Geological Association of Canada may be taken into consideration as well as financial need. In the case of undergraduates the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates it will be awarded by the Dean, School of Graduate Studies. In both cases it will be based on a recommendation from the Head, Department of Earth Sciences in consultation with the PDAC and the Prince family.

Professional Engineers and Geoscientists Newfoundland and Labrador Past Presidents' Geoscience Scholarship

This scholarship valued at a minimum of \$1,000.00 was established by the Professional Engineers and Geoscientists Newfoundland and Labrador. It is awarded annually on the basis of scholarship standing to a Geoscience student at Memorial University of Newfoundland. It is open to either graduate or undergraduate students in any given year and will be allocated as such at the discretion of the Department Head. In the case of undergraduates, the scholarship is awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards upon the recommendation of the Head, Department of Earth Sciences in consultation with PEGNL. In the case of graduates it is awarded by the Dean of Graduate Studies upon recommendation of the Head, Department of Earth Sciences, in consultation with PEGNL.

The Gar Pynn Scholarship in Business

This endowed scholarship is made possible through a very kind donation to Memorial University of Newfoundland by an anonymous donor in recognition of Professor Pynn's contribution to the Faculty of Business Administration over his 27 years of service. A scholarship valued at approximately \$2,000.00 will be awarded annually to a full-time student at the end of his or her first year of full time study in the M.B.A. Program. It will be awarded to the student who has best demonstrated a combination of academic excellence, significant contributions to the faculty and leadership in student life within the M.B.A. Program. The scholarship will be awarded by the Dean of Graduate Studies upon the recommendation of the Dean, Faculty of Business Administration.

The Rothermere Foundation Fellowships

These Fellowships, the gift of the first Chancellor of the University, have been established to aid and encourage students who have taken their first degree at this University to pursue their studies for a British higher degree at a university of their choice in the United Kingdom. It is not intended that students who have obtained most of their education in Britain be eligible for a Fellowship. Awards are

made by the Rothermere Fellowships Trust, on the recommendation of the President of Memorial University of Newfoundland.

The conditions of the award are as follows:

1. Candidates shall have completed a bachelor's degree at Memorial University of Newfoundland and have completed or be about to complete a master's degree either at Memorial University of Newfoundland or at another university in North America.
2. Fellowships will be awarded only to candidates who are proceeding to the United Kingdom to work for a British higher degree. Fellowships will not be awarded to candidates who wish to extend their stay in Britain to obtain a further British higher degree. Persons who are full-time members of a faculty of Memorial University of Newfoundland are not eligible for a Rothermere Fellowship.
3. The awards will be restricted to a maximum tenure of three years or the period requested in the candidate's application, whichever is the lesser. Continuation beyond the first year will depend on certification of competence and satisfactory progress.
4. Candidates must accept and complete the term of years for which the Fellowship has been awarded unless the requirements for the qualifications for which the Fellowship was awarded have been completed before the term expires. No interruption of tenure or postponement of the date of commencement of the Fellowship will be allowed.
5. One Fellowship is usually awarded each year.
6. The value of the stipend is currently £14,514 per annum, plus tuition fees. The fees will be paid direct to the university concerned upon receipt of an invoice. The stipend will be credited to the Fellow's banking account in quarterly instalments.
7. The Trust will pay for a return airfare, economy class, for Fellows from Newfoundland to England, and back to Newfoundland in each year of their Fellowship (a year being twelve months from the start of the Fellowship and every twelve months of the Fellowship thereafter). Flights must be economy return. The Trust will reimburse the air fare in the final year of award, on the proviso that the student must use the return portion to travel back to Newfoundland within one month of completing the Fellowship.
8. Completed applications must be submitted in duplicate to this office before the 30th of November and must be accompanied by the following documentation, also in duplicate:
 - a. an official transcript of marks from Memorial University of Newfoundland and from any other university attended;
 - b. a letter of recommendation from the dean of the faculty or school in which the applicant was registered as an undergraduate at Memorial University of Newfoundland;
 - c. a letter of recommendation from the head of the department in which applicant majored as an undergraduate at Memorial University of Newfoundland; and
 - d. a letter of recommendation from the applicant's present master's level supervisor;
 - e. as indicated in Section 15 of the application, applicants must submit a personal statement on how their research will contribute or be of value to Newfoundland and Labrador. The statement must also contain a section on the candidate's commitment to Newfoundland and Labrador.

Note that additional letters of recommendation and other information in support of the application may be submitted at the applicant's discretion.

Applicants are encouraged to begin the process of applying to universities in the United Kingdom before submitting the Rothermere Fellowship application.

Further information may be obtained by writing Margot Brown, Executive Director/Assistant to the President, Room AA2028, Arts and Administration Building, Memorial University of Newfoundland, St. John's, NL, A1C 5S7, or by telephone to (709) 864-8216, or by fax to (709) 864-2059, or by e-mail to mbrown@mun.ca.

Royal Bank Fellowship in Marine Studies

This fellowship is provided through the generosity of the Royal Bank of Canada. It is valued at \$5,000 and is open to full-time graduate students in fields related to marine studies including, but not limited to, marine biology, aquaculture, biopsychology, fisheries resource management, maritime history, cold ocean engineering, folklore and naval architecture. The award, given on the basis of academic merit, will be made by the Dean of the School of Graduate Studies upon recommendation from the Head of the appropriate academic units in the above noted areas. The award is not renewable but re-applications will be considered.

The Very Reverend Edward and Marjorie Rusted Harlow Travel Award

This is an award for graduate students who wish to travel to Harlow either to undertake graduate thesis-related research or who have enrolled in a graduate course that is offered at the Harlow Campus. One award of \$2,000.00 will be made annually to help defray the expenses for airfare and accommodation. Applications are to be made to the Dean of Graduate Studies and must be received by April 30th. Details of application are available from the School of Graduate Studies. The award will be made upon the recommendation of the Dean's Advisory Committee on Medals and Awards.

Sceptre Investment Counsel Limited Bursary

Sceptre Investment Counsel, one of Canada's leading pension and mutual fund managers and an important partner to Memorial University of Newfoundland for several years, has established this bursary as a demonstration of its commitment to community support. Valued at the accrued interest on their endowment, one or more bursaries will be awarded annually on a rotating basis between undergraduate and graduate students in any field of study. Successful candidate(s) must be Newfoundland residents demonstrating financial need and displaying qualities of leadership. In the case of undergraduates, it will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards using scholarship standing as the primary determinant. Graduate students can make application in writing to the Dean of Graduate Studies. The award will be made by the Dean on the recommendation of the Awards and Medals Committee.

School of Graduate Studies F.A. Aldrich Fellowships

Six to eight fellowships valued at \$20,000 per annum on the doctoral level and \$15,000 on the masters level will be awarded to incoming full-time Canadian students. Renewal for one year at the doctoral level will be possible. These fellowships were established to celebrate the 25th Anniversary of the School of Graduate Studies in 1999 from a portion of the proceeds of the *Opportunity Fund* and in honour of Memorial University of Newfoundland's first Dean of the School of Graduate Studies, Dr. F.A. Aldrich (1970-1987). Recipients will be selected by the Dean of the School of Graduate Studies, on the recommendation of the Awards and Medals Committee, on the basis of exceptional academic achievement.

School of Pharmacy Millennium Graduate Fellowship

This fellowship, valued at the annual accrued interest on an initial endowment from the School of Pharmacy, is to be awarded to a full-time graduate student in Pharmacy and will be in addition to any other graduate student support held. The award is made on the basis of academic excellence in both course work and research (equally). This fellowship is not renewable for students in the master's program, but is renewable once for students in the Doctoral program. All full-time graduate students at the School of Pharmacy are eligible to apply for this award. In case of candidates with equal qualifications, preference will be given to Canadian citizens and permanent residents. The award will be made by the Dean of Graduate Studies on the recommendation of the Dean of the School of Pharmacy.

The Scotiabank Bursaries for International Study

These bursaries, funded by a generous donation from Scotiabank to *The Opportunity Fund*, are intended to help students broaden their educational experience and cultivate an international perspective through study abroad while pursuing studies in the Faculty of Arts at Memorial University of Newfoundland. Fifteen or more bursaries will be available with approximately ten at the undergraduate level valued at \$1,000.00 each and five at the graduate level valued at \$2,000.00 each. The undergraduate bursaries will be awarded on the basis of scholarship standing to full-time students who are participating in one of the overseas Field Schools or study abroad opportunities sponsored by the Faculty of Arts. These include the Arts semester in Harlow (every Fall) as well as Summer programs at Harlow and in other countries such as Ireland, Malta, Russia, etc. In addition, students wishing to participate in formal exchange programs through the faculty of Arts, such as those with the University of Keele, will also qualify. The graduate bursaries will be based on academics as well and will assist full-time Faculty of Arts master's and doctoral students (including those in interdisciplinary programs) to travel to other countries for the purpose of thesis research and thesis-related study. In both cases financial need may be taken into consideration. In the case of undergraduates the bursaries will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In the case of graduates they will be awarded by the Dean, School of Graduate Studies. In both cases the bursaries will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

The Dr. Jorge Segovia Scholarship in Health Services Research

This scholarship has been established in honour of Dr. Jorge Segovia (former Associate Dean of Community Health and Professor Emeritus of Social Medicine). It is valued at \$500.00 annually and will be awarded to any full-time graduate student doing Health Service Research at Memorial University of Newfoundland. The recipient of this scholarship will be selected on scholarship standing through such accomplishments as best paper, best thesis, or best research project. The scholarship will be awarded by the Dean, School of Graduate Studies, on the recommendation of the Dean, Faculty of Medicine, in consultation with the Associate Dean Community Health.

The Dr. Robert W. Sexty Scholarship for Social Responsibility

The scholarship, valued at a portion of the income on the investment, will be awarded annually to a full-time or part-time student enrolled in any undergraduate or graduate business program. The scholarship will be awarded to a student who has demonstrated commitment to social responsibility through academic achievement in a social responsibility course or ethics in business related courses, or successful completion of an M.B.A. research project relating to social responsibility, or involvement in social responsibility as exemplified through university or community service. In the case of undergraduate students, the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing and the recommendation of the Dean, Faculty of Business Administration. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies on the recommendation of the Dean, Faculty of Business Administration.

Dr. Alfred K. Snelgrove Graduate Scholarship in Earth Sciences

A bequest from Dr. Alfred K. Snelgrove makes possible up to two scholarships, valued at \$5,000.00 per annum, for students applying for or enrolled in a graduate program in the Department of Earth Sciences. These scholarships are intended primarily for Canadian citizens or permanent residents, and are awarded by the Dean of Graduate Studies on the recommendation of the Head of the Department of Earth Sciences. The scholarships are tenable for one year, and may be renewed. They may be held in addition to other scholarships and fellowships, and will be awarded only to applicants whose academic excellence and research potential can be clearly demonstrated.

Special Scholarships for Students to Pursue Graduate Studies Related to Resource Development

The "Special Scholarships for Studies in the Sciences Related to Resource Development" will be in the amount of \$7500.00 annually for students registered in full-time post-graduate studies at Memorial University of Newfoundland, in programs leading to the Master's and/or Doctorate degrees in the Sciences related to Resource Development. A scholarship may be renewed and awarded for one additional year only.

The scholarships are to be tenable at Memorial University of Newfoundland, but under special circumstances may include approved studies abroad. Eligible candidates normally should be residents of the province, or should have been resident in the province for at least three years prior to entering the program, excluding time spent at post-secondary institutions.

Candidates will normally have a First-Class Undergraduate Degree, or a Second-Class Degree with First-Class standing in courses in their major field of study. Candidates should apply for the scholarships to the Office of the Dean of Graduate Studies, Memorial University of Newfoundland.

The St. John's Maple Leafs Legacy Scholarship

This scholarship was established by the Leafs Foundation Inc. and the St. John's Maple Leafs Booster Club to recognize the contribution of the St. John's Maple Leafs hockey team to youth and community in the Province. Valued at a portion of the income on the investment, the scholarship is open to full-time undergraduate or graduate students in the Faculty of Business Administration who meet scholarship standing and who have been active in athletic or extracurricular activities at Memorial University of Newfoundland and/or in the community. In the case of undergraduate students the scholarships will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the recommendation of the Dean of the Faculty of Business Administration. In the case of graduate students, the scholarship will be awarded by the Dean of Graduate Studies on the recommendation of the Dean of the Faculty of Business Administration.

Dr. Howard Strong Memorial Postgraduate Geriatric Psychiatry Scholarship

This scholarship has been established through generous gifts from colleagues, classmates, friends and family of Dr. Howard Strong, a well-known geriatric psychiatrist and member of the first medical graduating class at Memorial University of Newfoundland. The scholarship will be awarded annually to the resident who is rated by the faculty as having the best performance in the Geriatric Psychiatry rotation during the psychiatry residency training program in the Faculty of Medicine at Memorial University of Newfoundland. It will be awarded by the Faculty of Medicine Postgraduate Medical Education Committee on the basis of a recommendation from the Discipline of Psychiatry and with the approval of the Dean of Medicine. The Office of Postgraduate Medical Education will oversee administration of the scholarship.

TD Graduate Bursary for Environmental Study

The TD Graduate Bursary for Environmental Study was established by a gift from TD Bank Group to Dare To: The Campaign for Memorial University. The bursaries will be awarded to full-time graduate students enrolled in any program at Memorial University of Newfoundland, provided they are pursuing research and/or study in environmental-related subjects. Recipients must meet the academic criteria for a Bursary. The number and value of the bursaries available each year will depend on the funds available for distribution as per University policy, as well as the applicant pool, and will be determined at the discretion of the Dean, School of Graduate Studies. The bursaries will be awarded by the Dean, School of Graduate Studies based upon recommendations of Deans and/or Department Heads of any eligible discipline.

The Dr. Anna C. Templeton Memorial Graduate Scholarship

This fund was established from a bequest to the University by Dr. Anna C. Templeton. Awarded annually and valued at approximately 75% of the earned interest, the scholarship is open to full-time graduate students in any year of their program who are residents of Newfoundland and Labrador. Preference will be given to students who have demonstrated leadership in teaching, promotion or development of craft or home economics in the province of Newfoundland and Labrador. Normally the award will be made to a student

in the Faculty of Arts, the Faculty of Science, the School of Nursing, the School of Social Work or at Grenfell Campus, or the Fisheries and Marine Institute. The scholarship will be awarded by the Dean, School of Graduate Studies upon recommendation from the head of appropriate academic units in the above-noted areas. The award is not renewable, but reapplications will be considered.

The Dr. Wilfred Templeman Memorial Scholarship

In commemoration of the 15th Anniversary of the cod moratorium, the Provincial Government has created this award in honour of Dr. Wilfred Templeman, a pioneer of fisheries research in Newfoundland and Labrador. This scholarship will be available to full-time students pursuing a graduate program in which groundfish research is the primary focus. Successful applicants will receive \$2,500 per year for a maximum of two years for work towards a graduate degree in a program appropriately related to the stated goals of the scholarship. The application should contain a brief description of the research being undertaken towards the graduate degree and a statement of how the research is consistent with the goals of the scholarship donor. Candidates should apply for the scholarship to the Office of the Dean of Science no later than the last day of December of the first academic year of their graduate program. Awards will be made by the Dean of Graduate Studies on the recommendation of the Dean of Science.

The J. Beryl Truscott Graduate Scholarship

This fund is established in memorial to J. Beryl Truscott, a long-time employee of the Marine Sciences Research Laboratory, and is administered by the School of Graduate Studies. It is valued at \$2000.00 and is normally awarded annually to a full-time student pursuing a graduate program in either Chemistry or Biochemistry. Awards will be made by the Dean of Graduate Studies based upon recommendations from the Head, Department of Biochemistry and the Head, Department of Chemistry.

The Leslie Tuck-Avian Ecology Award

This endowed scholarship is named in honour of the late Dr. Leslie Mills Tuck, the first Dominion Wildlife Officer and Canadian Wildlife Service Officer in Newfoundland and Labrador. Author of two definitive and award-winning books on Newfoundland birds, *The Murres* (1961) and *The Snipes* (1972), Leslie Tuck was a J.L. Paton Research Chair in the Department of Psychology following his retirement from the Canadian Wildlife Service, and a member of the Natural History Society of Newfoundland and Labrador which he was instrumental in sustaining. The award, valued at \$1,000 annually, will be made by the Dean of Graduate Studies on the recommendation of the Dean of Science. A committee appointed by the Dean of Science shall select a nominee on the basis of a 500 word essay on the student's research and its relevance to the avian ecology and ecosystem preservation in Newfoundland and Labrador. Eligible candidates must be full-time graduate students in biopsychology, biology or psychology. The winning essay will be published in *The Osprey*, the quarterly publication of the Natural History Society of Newfoundland and Labrador.

University Support

A limited amount of University Support may be awarded to full-time students working toward graduate degrees at this University. Awards will be made by the Dean of Graduate Studies on the recommendations of Departments. These awards may be supplemented by remuneration for extra duties performed in the Departments at the discretion of Department Heads.

The Josephine Welch Research Initiative Award

The Josephine Welch Research Initiative Award, established by Dr. David Behm, is valued at \$500. It will be awarded annually to a full-time graduate student enrolled in the Master of Kinesiology program who has demonstrated the greatest initiative towards publishing research. This can include submitted or published papers, abstracts or data collection. This award will be made by the Dean, School of Graduate Studies on the recommendation of the Dean, School of Human Kinetics and Recreation. It will be presented at the School of Human Kinetics and Recreation Awards Ceremony in November.

The George Weston Graduate Scholarships

Two scholarships valued at a minimum of \$2,000.00 each, will be awarded annually to full-time graduate students, one in the field of Marine Biology and one in the field of Marine Engineering. These students must have been born in one of the Atlantic Provinces. Tenable at Memorial University of Newfoundland, these scholarships will be awarded by the Dean of Graduate Studies upon recommendation from the Deans of Science and Engineering.

Women's Association of Memorial University of Newfoundland Graduate Student Scholarship

Two Master's level and two Ph.D. level scholarships valued at \$1,200.00 each are awarded annually to full-time students entering a program in the School of Graduate Studies. Of the Master's level awards, one shall be for a thesis program, and one for a non-thesis program. Financial need as well as scholarship standing will be taken into consideration. The awards will be made upon the recommendation of the Dean of Graduate Studies.

The Wood Gundy Scholarship for Graduate Business Students

The Wood Gundy Scholarship for Graduate Business Students will be awarded annually to an MBA student of scholarship standing who has demonstrated leadership ability through participation in student, faculty or University activities and/or contribution to the larger community. Preference will be given to students with a demonstrated career interest in the area of finance. The value of this scholarship will be determined by the annual income derived from the initial endowment. It will be awarded by the Dean of Graduate Studies upon the recommendation of the Dean, Faculty of Business Administration.

Dr. Lynda Youngusband Counseling Award

The Dr. Lynda Youngusband Counseling Award has been established by Dr. Youngusband to promote the counseling profession and to improve access to the national conference for students. This award will be given to either a full-time or part-time graduate student enrolled in the Master of Education (Counselling Psychology) program and who is attending the national conference of the Canadian Counselling Association to present a scholarly paper or poster. The recipient must meet the academic requirements for an award. It will be awarded by the Dean of Graduate Studies upon the recommendation of the Dean, Faculty of Education.

11.2 Graduate Awards Administered By Other Authorities

The Association of Registered Nurses of Newfoundland Education and Research Trust Scholarship

A \$1000.00 scholarship is available from the A.R.N.N. for students pursuing graduate studies in Nursing. The application form is available in writing from The Association of Registered Nurses of Newfoundland, P.O. Box 6116, St. John's, NL, A1C 5X8 or by telephone to (709) 753-6040.

The Bowring/Harlow Scholarship

The Board of C.T. Bowring & Co. Ltd., London, England, together with Mr. Edgar Bowring and Mr. Peter Bowring, former Chairmen of that Company, have made available to Memorial University of Newfoundland, through the Harlow Campus Trust, a grant to establish a scholarship fund for students at the post-baccalaureate level who wish to live at the University's Harlow Campus while undertaking approved studies in Great Britain. It is hoped that interest on the fund will finance up to two annual scholarships of £600 each. In special circumstances the interest may be applied to a single award. In making the award, scholastic achievement and financial need will be considered. The scholarships are awarded by the Trustees of the Harlow Campus Trust on submissions of the Dean of Graduate Studies and the Co-ordinator of Harlow following recommendations from the Faculties/Schools responsible for the applicants' academic programs.

Canadian Federation of University Women (Saint John, NB) Lillian D. & Charles R. Bone Memorial Scholarship for Post-Graduate Study - \$1,500

The Canadian Federation of University Women - Saint John offers this scholarship to a female student who is entering a Post-Graduate Degree Program. Eligible candidates must have graduated from a New Brunswick School District 8 High School or be a resident in the greater Saint John area.

The Canadian Gerontological Nursing Association

Sancellia/CGNA Nursing Scholarship - 2 awards of \$1000.00. The purpose is to provide support to outstanding Registered Nurses undergoing further education in either an undergraduate nursing degree program, or a post graduate degree program that is relevant to career development in the field of Gerontological Nursing.

The candidate must:

- Be a member of the Canadian Gerontological Nursing Association.
- Be registered to practise nursing in a Canadian Province.
- Have gained acceptance to a suitable full-time program in a recognized educational institution at the time of taking up the award.
- Exhibit interest in and potential for, a career in Gerontological nursing in Canada.
- Be a Canadian citizen or permanent resident at the time of taking up the award.

The scholarship is administered by the CGNA and further information regarding criteria can be obtained in writing to CGNA, c/o Nancy Bol, Parkwood Hospital, 801 Commissioners Rd. E., London, Ontario N6C 5J1

Canadian Institutes of Health Research (CIHR)

The Council awards each year a number of awards, grants, fellowships, and scholarships in the area of health related fields to those undertaking graduate study and research leading to advanced degrees. Further information and applications are available from their website at www.cihr-irsc.gc.ca.

Canadian Nurses Foundation Scholarships & Fellowships Competition

Scholarships and fellowships are awarded to nurses pursuing education at the baccalaureate, master and doctoral levels. In addition to non-specific studies, awards are available for specific area of practice such as northern nursing, occupational health, dialysis nursing, neurological nursing, oncology nursing, community health, gerontology nursing, pediatric nursing and nursing administration. Applications must be members of CNA and CNF, be Canadian citizens and agree to work in Canada for a period of one year for each year of financial assistance. Application forms are available from their website www.canadiannursesfoundation.com or in writing to Canadian Nurses Foundation, 50 Driveway, Ottawa, Ontario K2P 1E2 or by telephone to (613)237-2133 or by fax to (613)237-3520.

Graduate Students' Union (GSU) Award for Excellence in Community Service

Two awards of \$250 each are awarded annually to graduate students of any program at Memorial University of Newfoundland. A selection committee will determine award recipients based on community service endeavours. Nomination forms and further information are available at the GSU website www.mun.ca/gsu.

Graduate Students' Union (GSU) Award for Excellence in Research

Two awards of \$250 each are awarded annually to graduate students of any program at Memorial University of Newfoundland. A selection committee will determine award recipients based on research the student has accomplished at Memorial relative to the field in which they study. Nomination forms and further information are available at the GSU website www.mun.ca/gsu.

Graduate Students' Union (GSU) Award for Excellence in Teaching

Two awards of \$250 each are awarded annually to graduate students of any program at Memorial University of Newfoundland. A selection committee will determine award recipients based on excellence in teaching-related activities, as demonstrated by student comments, innovative teaching methods, and evidence of exceeding normal teaching requirements. Nomination forms and further information are available at the GSU website www.mun.ca/gsu. Two awards of \$250 each are awarded annually to graduate students of any program at Memorial. A selection committee will determine award recipients based on research the student has accomplished at Memorial relative to the field in which they study. Nomination forms and further information are available at the GSU website www.mun.ca/gsu

I.O.D.E. Scholarships for Graduate Study in Canada or Overseas Within the Commonwealth

To honour the memory of the men and women who gave their lives for Canada in World Wars I and II, these memorials were established to provide scholarships for graduate study. Candidates must be Canadian citizens and must hold a first degree from a recognized university in Canada. At the time of applying, a candidate must hold a Master's degree or be in the final year of studies leading to a Master's degree. Further information is available in writing to The Head Office, I.O.D.E., 40 Orchard View Boulevard, Suite 254, Toronto, Ontario M4R 1B9.

The Medical School Essay Postgraduate Student Award

The Medical School Essay Award is supported by the K.B. Roberts Scholarship Fund, which was established in appreciation of the contribution made to the Faculty of Medicine by Dr. Kenneth Roberts. This award, valued at a portion of the income on the endowment, will be awarded annually to any postgraduate medical student registered full-time in the current academic year following a competition in the form of an essay or short monograph pertaining to any aspect of medicine or the medical sciences. The essay, not exceeding 5,000 words, should include an interpretative element that indicates the importance and relevance to Medicine, Health and Society. Should there be two essays of very high caliber but one is obviously the better provision may be made for an honourable mention award of lesser value. Submission deadline is April 30, in any given year, to the Office of Student Affairs HSC Room 2713. The recipient of this award will have their essay printed in the Memorial University Journal of Human Health. The award is made on the recommendation of the Dean's Advisory Committee on Awards, Bursaries and Scholarships in the Faculty of Medicine.

Natural Sciences and Engineering Research Council of Canada (NSERC)

The Council awards each year, in open competition, a number of post-graduate scholarships in Science and Engineering to assist students in undertaking graduate study and research leading to advanced degrees. These scholarships and fellowships are tenable at both Canadian universities and institutions outside Canada. Further information and applications are available from their website www.nserc-crsng.gc.ca.

The Newfoundland St. Andrew's Society Scholarship

This scholarship is the result of a gift from the Newfoundland St. Andrew's Society to Memorial University of Newfoundland. Valued at a portion of the interest on an endowment, the scholarship will be awarded to a student from the Faculty of Arts whose studies and accomplishments most closely support the aims of the Newfoundland St. Andrew's Society; To foster and encourage the love of Scotland, its history, literature, music and national games in a Newfoundland context. In the case of undergraduate students the scholarship will be awarded by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards on the basis of scholarship standing. In the case of graduate students the scholarship will be awarded by the Dean, School of Graduate Studies. In both cases it will be awarded on the basis of a recommendation from the Dean, Faculty of Arts.

The J.W. Pickersgill Fellowship

The J.W. Pickersgill Fellowship Act provides for the award of a fellowship valued at \$7,500.00 per annum to a graduate of Memorial University of Newfoundland for the pursuit of doctoral studies in History or Political Science at any university. Application forms and regulations are available from the Office of the Dean of Arts, to whom applications must be submitted by February 15.

Rotary Awards

The Rotary Foundation of Rotary International offers Graduate Fellowships for those who will have received a bachelor's degree or equivalent. Further information and applications are available from their website www.rotary.org or in writing to The Rotary Foundation of Rotary International, One Rotary Centre, 1560 Sherman Avenue, Evanston, IL 60201 USA.

The St. John's Association of Basketball Officials Award

From a sum of money donated by the St. John's Association of Basketball Officials an award valued at a portion of the annual income on the investment is to be provided annually to a full-time or part-time Memorial University of Newfoundland student, either graduate or undergraduate, who is an active member of the University basketball community. The candidate must meet the University's definition of Clear Standing. In the case of graduate students the award will be made by the Dean, School of Graduate Studies. In the case of undergraduate students the award will be made by the Senate Committee on Undergraduate Scholarships, Bursaries and Awards. In both cases the award is based on the recommendation of the executive of the St. John's Association of Basketball Officials.

The Schulich Scholarship for Entrepreneurship

This scholarship, sponsored by Nevada Capital Corporation Ltd. is open to students completing the first year of the M.B.A. program of the Faculty of Business Administration at Memorial University of Newfoundland. The scholarship will be awarded to the student who, in the opinion of a Selection Committee, Faculty of Business Administration, has best demonstrated an entrepreneurial orientation in first-year M.B.A. studies and in other related activities. Students must make special application for the award to the Dean, Faculty of Business Administration.

Social Sciences and Humanities Research Council of Canada (SSHRC)

The Council offers fellowships and grants in the Social Sciences and Humanities. Among Council programs of aid are research grants and short-term grants, and the following awards that are based upon annual competitions: doctoral fellowships and postdoctoral fellowships. Further information and applications are available from their website www.sshrc-crsh.gc.ca.

11.3 Other Awards

Fellowships and research grants for advanced study are available, in open competition, from many other organizations and foundations. Information about these awards is available from the Office of the Dean of Graduate Studies.

Archived Previous Calendar available at:
 Current University Calendar available at:
<https://www.mun.ca/university-calendar>

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For an explanation of terms used in this Calendar, see the **Glossary of Terms Used in This Calendar**. When the designations Grenfell and Marine are used, they indicate references specific to Grenfell Campus and the Fisheries and Marine Institute respectively.

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