SIR WILFRED GRENFELL COLLEGE

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1 Personnel - Administrative Faculty and Staff

OFFICE OF THE PRINCIPAL

Principal
Ashton, J., B.A. *London School of Economics and Political Science*, M.A. *Leeds*, Ph.D. *Memorial*

Vice-Principal
Pike, H., B.A. *Memorial*, M.A. *Dalhousie*, Ph.D. *S.U.N.Y.*

Associate Vice-Principal (Research)
Bowers, W., B.Sc. *Memorial*, M.Sc., Ph.D. *Simon Fraser*

OFFICE OF THE REGISTRAR

College Registrar
Noftall-Bennett, S., B.S.W. *Memorial*, M.Ed. *Mount Saint Vincent*

Senior College Academic Advisor and High School Liaison Officer
Carlson, N., B.A., M.Ed. *Memorial*

Student Recruitment Officer
Morrissey, M., B.B.A. *Memorial*

Student Recruitment Officer
Decker, D., B.A. *Memorial*

Co-ordinator Conversion Project/Academic Advisor
Parsons, C., B.B.A. *Memorial*

STUDENT AFFAIRS AND SERVICES

Co-ordinator
Sparkes, M., B.A. *Mount Saint Vincent*, M.Ed. *Toronto*

Student Affairs Officer
Carroll, L.D., B.A.(Ed.), M.Ed. *Memorial*

Learning Centre Co-ordinator
Payne, L.G., B.S.W. *Memorial*

Manager Student Housing
Vacant

Wellness Educator
Galliott, J., B.P.E. *Memorial*

CHAPLAINS

United Church
Brett, C., Rev.

Pentecostal Church
Andrews, C., Pastor

Roman Catholic
Vacant

Anglican
Hounsell-Drover, J., Rev.

Salvation Army
Gray, C., Major

COUNSELLORS

Wilson, P., B.A., B.Ed., M.Ed. *Memorial*, Ed.D *Toronto*, Professor
Barber, J., B.Sc., B.Ed. *Memorial*, M.Ed. *Ottawa,* Lecturer

COMMUNITY EDUCATION AND COLLEGE RELATIONS

Co-ordinator
Philpott, J., B.A. *Memorial*

Communications Co-ordinator
Gill, P., B.A.(Hons.) *Memorial*, B.J. *University of King's College*

Program Developer
Forward, M., B.A.(Ed.) *Memorial*

Conference Services Co-ordinator
Walbourne, L.

Facilities Co-ordinator
Walsh, J., B.A. *Memorial*

Marketing Co-ordinator
Boland, C.

COMPUTING AND COMMUNICATIONS

Manager
Rowsell, R., B.Voc.Ed., B.Eng. *Memorial*

LIBRARY

Associate University Librarian
Behrens, E., B.A. *Montreal*, M.A. *Windsor*, M.L.S. *McGill*

Public Services Librarian
McGillis, L., B.A. *McGill*, M.L.S. *Toronto*

ADMINISTRATION AND FINANCE

Director
Waterman, D., B.Comm. *Memorial*

Staff Accountant
Hackett, W., B.Acc.S. *Calgary*

Bookstore Manager
Day, M.

Budget Assistant
Quigley, C.

Finance Officer
Duffy, B., B.Comm. *Memorial*, C.M.A.

General Services Supervisor
Hayes, C.

2 Personnel - Faculty Lists

DIVISION OF ARTS

Janzen, O.U., B.A. *McMaster*, M.A., Ph.D. *Queen's*, F.R.Hist.S.; Professor, Historical Studies; Head, Division of Arts
Ashley, K.M., B.A.(Hons.) *Acadia*, MèsL *Rouen*, M.Phil. *Cantab*, Ph.D. *Edinburgh*; Assistant Professor, French
Baehre, R., B.A., M.A., M.Phil. *Waterloo*, Ph.D. *York*; Associate Professor; Cross appointment with Social/Cultural Studies Program
Bezzina, E., B.A. *Queen's*, M.A., Ph.D. *Toronto*; Assistant Professor, Historical Studies
Chafe, P., B.A.(Hons.) *Memorial*, M.A. *Alberta*; Lecturer, English
Diamond, E., B.A. *University of King's College*, M.A. *Dalhousie*; Lecturer, Philosophy
Fabijancic, T., B.A. *St. Francis Xavier*, M.A. *Victoria*, Ph.D. *New Brunswick*; Associate Professor, English
Fowler, A., B.A., M.A. *Memorial*, Ph.D. *Ottawa*; Professor, English
Grant, P.B., M.A. *Glasgow*, M.Phil., Ph.D. *Cantab*; Assistant Professor, English
Greenlee, J.G.C., B.A., M.A., Ph.D. *McMaster*; Professor, Historical Studies; Program Chair, Historical Studies
Jacobsen, K., B.A. *Trinity Western*, M.A., Ph.D. *Queen's*; Associate Professor, English; Program Chair, English
Janes, M., B.A, M.A. *Memorial*; Lecturer, French
Maggs, W.R., B.A., M.A. *Dalhousie*, Ph.D. *New Brunswick*; Associate Professor, English
Newton, M.C., Cert. of Education *King Alfred's College*, B.A., M.A., Ph.D. *McMaster*; Professor, Religious Studies
Parker, M., B.A., M.A. *Toronto*, Ph.D. *McMaster*; Professor, Classics; Cross appointment with Historical Studies
Peddle, D., B.A., M.A. *Memorial*, Ph.D. *Ottawa*; Associate Professor, Philosophy (sabbatical leave)
Pike, H., B.A. *Memorial*, M.A. *Dalhousie*, Ph.D. *S.U.N.Y.*; Associate Professor, English; Vice-Principal
Sherlow, L., B.A., Cert. Ed. *Birmingham*, M.A. *Carleton*, Ph.D. *Ottawa*; Associate Professor, English; Program Chair, Humanities
Thackray, M., B.A. *Waterloo*, M.A., Ph.D. *S.U.N.Y.*; Assistant Professor, English

Cross Appointment

Curtis, G., B.F.A., B.A. *Calgary*, Ph.D. *Essex*; Associate Professor, Art History, Visual Arts; Cross appointment with Historical Studies

DIVISION OF FINE ARTS

Coyne, M., B.F.A. *Mt. Allison*, M.F.A. *Regina*; Professor, Visual Arts
Curtis, G., B.F.A., B.A. *Calgary*, Ph.D. *Essex*; Associate Professor, Art History, Visual Arts
Foulds, D., B.F.A., M.F.A. *Saskatchewan*; Associate Professor, Visual Arts
Hansen-robitschek, r., B.A. *Ottawa, National Theatre School of Canada*; Assistant Professor, Theatre
Hasnain, A., B.A. *Toronto*, *National Theatre School of Canada*; Associate Professor, Theatre
Hennessey, T., B.F.A. *Memorial*, M.F.A. *Calgary*; Assistant Professor, Theatre
Hunt, B., Diploma in Fine Art *Manitoba*, M.F.A. *Montreal*; Associate Professor, Visual Arts; Winner of the President's Award for Outstanding Research, 2004-2005
Jones, K., B.A. *California*, H.D.F.A. *The Slade School of Fine Art, University College London*; Professor, Visual Arts
Judge, C., B.F.A. *Alberta*, M.F.A. *Victoria*; Assistant Professor, Visual Arts; on leave
LeBlanc, P., B.F.A. *Moncton*, M.F.A. *Montreal*; Assistant Professor, Visual Arts, and Chair, Visual Arts
Livingstone, K.D., B.A. *Bishop's*, M.A. (Theatre) *British Columbia*; Associate Professor and Head, Division of Fine Arts
MacCallum, M., B.F.A. *Concordia*, M.V.A. *Alberta*; Professor, Visual Arts
Morrish, D., B.F.A. *Manitoba*, M.F.A. *Calgary*; Professor, Visual Arts
Nelson, C., B.F.A. *Memorial*, M.F.A. *Wimbledon School of Design*; Assistant Professor and Chair, Theatre
Sasaki, L., B.F.A. *Manitoba*, M.F.A. *NSCAD*; Associate Professor, Visual Arts

Cross Appointment

Monaghan, P.K., B.Sc. *Liverpool*, Ph.D. *Western Ontario*; Associate Professor, Environmental Science (Chemistry); Cross appointment with Chemistry

DIVISION OF SCIENCE

Bateman, L.E., B.Sc.(Hons.) *Dalhousie*, M.Sc. *Memorial*; Associate Professor, Environmental Science and Biology; Head of the Division
Abhyankar, S.B., B.Sc., M.Sc. *Bombay*, M.S., Ph.D. *Florida State,* M.C.I.C.; Associate Professor, Environmental Science and Chemistry
Andrews, S.E., B.Sc., B.Ed., M.Sc. *Memorial*; Associate Professor, Environmental Science and Biology; Winner of the President's Award for Distinguished Teaching 2002-2003
Berger, A.R., B.Sc.(Hons.) *Dalhousie*, M.Sc. *Melbourne*, Ph.D. *Liverpool*; Adjunct Professor, Earth Science
Bowers, W.W., B.Sc. *Memorial*, Ph.D. *Simon Fraser*; Professor, Environmental Science; Associate Vice-Principal (Research)
Bussey, B., B.Sc., M.Sc. *Memorial*; Associate Professor, Mathematics, Statistics and Computer Science
Campbell, C.E., B.Sc. *British Columbia*, M.Sc. *Alberta*, Ph.D. *Memorial*; Associate Professor, Environmental Science; Program Chair of Environmental Science
Churchill, D.C., B.Sc. (Hons) *Memorial*; Ph.D. *Queen's*; Adjunct Professor, Environmental Science
Doucet, C., B.Sc. *Concordia*; M.Sc. *Guelph*; Adjunct Professor, Environmental Science
Dust, J.M., B.Sc.(Hons.) *Waterloo*, M.Sc. *Dalhousie*, Ph.D. *Queen's*; M.C.I.C.; Associate Professor, Environmental Science and Chemistry
Flemming, S.P., B.Sc.(Hons.), M.Sc. *Acadia*, Ph.D. *Queen's*; Adjunct Professor, Environmental Science
Forbes, D., B.Sc. *Lyndon State*, M.Sc. *St. Mary's*, Ph.D. *Victoria*; Professor, Physics; Winner of the President's Award for Outstanding Research, 1993-1994
Gallant, R., B.Sc.(Hons.) *Memorial*, M.Sc., Ph.D. *Waterloo*; Assistant Professor, Mathematics, Statistics and Computer Science
Gunther, G., B.Sc., M.Sc., Ph.D. *Toronto*; Professor, Mathematics, Statistics and Computer Science; Winner of the President's Award for Distinguished Teaching, 1994-95; Program Chair of General Science
Hooper, R.G., B.Sc. Victoria, Ph.D. *Portsmouth*; Curator, Phycological Herbarium; Director, Bonne Bay Marine Station; Associate Professor; Cross appointment with Biology
Iams, W.J., B.A. *Johns Hopkins*, M.Sc. *Dalhousie*, Ph.D. *Memorial*; Associate Professor, Environmental Science (Earth Science) and Environmental Studies
Knight, T.W., B.Sc.(Hons.) *Guelph*, M.Sc. *Lakehead*, Ph.D. *Memorial*; Adjunct Professor, Environmental Science
Kobindarajah, K., B.Sc. (Hons.) *Eastern University Sri Lanka*, M.Sc., Ph.D. *Wits-South Africa*; Visiting Assistant Professor, Mathematics, Statistics and Computer Science
Krishnapillai, M., B.Sc.(Agric.), M.Phil. *Peradeniya*, Ph.D. *Manitoba*; Assistant Professor, Environmental Science
MacLeod, R., B.Sc. *Concordia*, M.Sc. *McMaster*; Visiting Assistant Professor, Mathematics, Statistics and Computer Science
Mann, H.E., B.A.(Hons.), M.Sc., Teach. Cert. *Saskatchewan*; Associate Professor, Environmental Science and Biology
Monaghan, P.K., B.Sc. *Liverpool*, Ph.D. *Western Ontario*; Associate Professor, Environmental Science and Chemistry; Cross appointment with Theatre
Moroni, M.T., B.Agr.Sci.(Hons.), Ph.D. *Tasmania*; Adjunct Professor, Environmental Science
Parkinson, D-R., B.Sc. *Brock*, Ph.D. *London*, M.C.I.C.; Associate Professor, Environmental Science and Chemistry
Rayner-Canham, G.W., B.Sc. *London*, D.I.C. *Imperial College*, Ph.D. *London,* F.C.I.C.; Professor, Environmental Science and Chemistry; Winner of the Sir Wilfred Grenfell College Teaching Award, 2003; Winner of the President's Award for Distinguished Teaching, 2005-2006
Richards, R.W., B.Sc. *Calgary*, M.Sc., Ph.D. *McMaster*; Associate Professor, Mathematics, Statistics and Computer Science
Rouleau, P., B.Sc. *UQAM*, Ph.D. *Alberta*; Associate Professor, Environmental Science/Physics
Sodhi, A., B.Math. *Waterloo*, M.Sc., Ph.D. *Queen's*; Associate Professor, Mathematics, Statistics and Computer Science
Warkentin, I.G., B.Sc., Ph.D. *Saskatchewan*; Associate Professor, Environmental Science and Biology

DIVISION OF SOCIAL SCIENCE

Duffy, J., B.A., M.A. *Carleton*, Ph.D. *York*; 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
Ashton, J., B.A. *London School of Economics and Political Science*, M.A. *Leeds*, Ph.D. *Memorial*; Associate Professor, Folklore; Principal
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*; Professor, Psychology
Carroll, D.A., B.P.E. *Memorial*, M.A. *Alberta*; Associate Professor, Human Kinetics and Recreation and Environmental Studies; Chair of Environmental Studies Program
Corbin Dwyer, S., B.A.(Hons.), B.Ed. *Memorial*, M.Ed. *Dalhousie*, Ph.D. *Calgary*; Associate Professor, Psychology
Croll, M.C., B.A. *Mount St. Vincent,* M.A. *Dalhousie,* M.Ed. *University of New Brunswick,* Ph.D. *University of Stirling;* Assistant Professor, Anthropology and Sociology, Social/ Cultural Studies
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*; Assistant Professor, Economics
Harris Walsh, K., B.A.(Hons.), M.A. *York*; Lecturer, Folklore and Social/Cultural Studies
Ionescu, M.O., B.A., Ph.D. *Academy of Economic Studies, Bucharest*; Assistant Professor, Business and Economics
Klassen, D.H., B.A. *Wilfred Laurier*, M.A. *Manitoba*, Ph.D. Indiana; Assistant Professor, Folklore and Social/Cultural Studies; Chair of Social/Cultural Studies Program
Mintz, E.P., B.A. *British Columbia*, M.A. *York*; Associate Professor, Political Science and Environmental Studies
Mosher, J.D., B.Sc., M.B.A. *Dalhousie*; Assistant Professor, 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*; Assistant Professor, Geography and Environmental Studies
Pitcher, J.B., B.A., M.B.A. *Memorial*; Assistant Professor, Business
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
Sabau, G.L., B.A., Ph.D. *Academy of Economic Studies, Bucharest;* Assistant Professor, Economics and Environmental Studies
Stewart, P.C., B.A.(Hons.) *Memorial*; Assistant Professor, Psychology
Warren, K.L., B.A.(Hons.), M.Sc. *Memorial*; Lecturer, Psychology
Wright, S.L., B.A. (Hons.), M.Sc. *Simon Fraser*, Ph.D. *Dalhousie*; Assistant Professor, Psychology; Chair of Psychology Program

3 General Information

The College, 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.

Four year degree programs in arts, science, nursing and fine arts may be completed at Sir Wilfred Grenfell College. The Bachelor of Arts degree is available in environmental studies, English, historical studies, humanities, psychology, social/cultural studies and tourism 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. Most of these programs are different from programs offered on the St. John's campus and most are available only at Sir Wilfred Grenfell College.

Students may complete the first two years of the University of New Brunswick's forest resource program at Sir Wilfred Grenfell College. In addition students may complete their first year in all programs offered at the St. John's campus (except music). With the exception of education, social work, pharmacy and medicine, students who wish to continue their education in one of the University's professional schools normally transfer to the St. John's campus after one year. Students who wish to pursue a degree in music are advised to proceed directly to the St. John's campus for their first year of university studies.

The School of Continuing Education offers distance education courses in Corner Brook and in northern and western Newfoundland and Labrador. The Division of Community Education and College Relations also offers a wide variety of non-credit courses to the students at the College and to the general public.

The College 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 college 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 the College's forestry program as well as the Newfoundland Division of the Canadian Forestry Service and the Western Newfoundland Model Forest Incorporated. All campus buildings are connected, mostly by skywalks.

3.1 Student Services

The mission of Student Services is to promote 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.

Student Services offers many programs and activities which support this mission, such as student employment programs, scholarships, bursaries and awards, orientation, recreation and wellness, academic support, and student housing.

Students are encouraged to bring concerns and issues associated with life at University to Student Services. Staff are always interested in suggestions for new initiatives which will meet students' needs.

Student Services is located in the Student Services Centre, AS 233 at Sir Wilfred Grenfell College. Further information may be obtained by telephone to (709) 637-6232, or by e-mail at saffairs@swgc.mun.ca or through the website at www.swgc.mun.ca/student.

3.2 The Learning Centre

One of the most utilized components of Student Services is the Learning Centre, Grenfell College's one-stop shop for academic support. Staff in the Centre assist students with career planning and provide writing and math help. The Learning Centre also offers Peer Tutoring and runs the Supplemental Instruction program.

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 234. Further information may be obtained by contacting the Centre by telephone to (709) 637-6268 or through the website at www.swgc.mun.ca/lcentre.

3.3 Student Housing

Student Housing currently offers accommodation for 400 students in a suite-style residence mainly for 1st year students and in chalet apartments for families and students beyond their first year. In our residence every two rooms form a suite, where two students share a fridge and bathroom. In each apartment, four students share a living room, kitchen and one-and-a-half baths, but like the residence, each student has 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.

Student Housing will also assist students seeking off campus accommodation by providing an online database of boarding houses/ apartments in the Corner Brook area.

Further information may be obtained by telephone to (709) 637-6266, or by e-mail at resinfo@swgc.mun.ca, or through the website at www.swgc.mun.ca/swgc-res/, or at the Housing Office at Residence Room 221.

3.4 Recreation and Wellness

Sir Wilfred Grenfell College offers a distinctive program of recreation and wellness activities that contributes to the well being and personal and social development of students. The college has a 25 metre pool, a gymnasium and an outdoor multi-use court. Students also have the opportunity to use various recreational facilities on the west coast of this province. Students are able to participate in a variety of recreation programs such as intramural sports, step aerobics, yoga and "learn to" programs that include activities like downhill skiing, kayaking and swimming.

Through a partnership with the Western Regional School of Nursing, a Wellness Centre operates at Grenfell on a part-time basis during

the academic year.

The role of the centre is to enhance education and awareness of various lifestyle, health and well-being issues relevant to students at university.

3.5 Grenfell College Student Union

The Grenfell College Student Union (GCSU), Local 136, CFS, represents students' interests to the College 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 College.

All full and part-time students pay GCSU fees and upon registration become members of the Grenfell College Student Union.

3.6 Counselling Services

The College 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.

3.7 Library

The Ferriss Hodgett Library is located on levels 2 and 3 of the Library and Computing Building, 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 and 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.

As a branch of the University Library, the Ferriss Hodgett Library also provides its users with access to the collections and services of all other Memorial University of Newfoundland libraries.

3.8 Statement of Academic Purpose

Sir Wilfred Grenfell College, 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 College continues to accommodate students who wish to complete their degrees at Memorial University of Newfoundland in St. John's or at universities elsewhere.

At Sir Wilfred Grenfell College 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 Sir Wilfred Grenfell College 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 Sir Wilfred Grenfell College 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.

4 Sir Wilfred Grenfell College Core Program Requirements

Students completing Bachelor of Arts, Bachelor of Business Administration and Bachelor of Science degree programs at Sir Wilfred Grenfell College 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 Sir Wilfred Grenfell College 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, Human Kinetics and Recreation, Humanities, Languages, Philosophy, Religious Studies, Theatre, Visual Arts
   - Group B: Anthropology, Business, Economics, Education, Environmental Studies, Folklore, Geography, Political Science, Psychology, Sociology, Tourism Studies, Women's Studies
   - Group C: Biology, Biochemistry, Chemistry, Computer Science, Earth Sciences, Environmental Science, Mathematics, Physics, Science

4.1 Designated Writing Courses (W)

Anthropology: 2240, 2300, 2500, 3080, 3083, 3140, 3520, 3525, 4072, 4440
Biology: 2040, 2041, 2122, 2600
Business: 1201, 2000, 2808, 6500, 7000, 7010, 7025
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 Sir Wilfred Grenfell College English Program and English 1110 and 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
French: 2100, 2101, 2601, 2602, 3100, 3101
Geography: 2001, 2302
History: All history courses listed with the Sir Wilfred Grenfell College Historical Studies Program
Human Kinetics and Recreation (HKR): 2300, 3330, 3340, 3350, 3410
Humanities: 3000, 4000, 4950
Philosophy: 1001, 1200, 1600, 2200, 2220, 2230, 2701, 2702, 2800-2810, 3120, 3150, 3160, 3400, 3600, 3610, 3620, 3701, 3730, 3850, 3860, 3940, 4200-4790, 4200, 4250, 4700
Political Science: 1010, 1020, 2000, 2200, 2711, 3550, 3731
Psychology: 4910, 4950, 4951, 4959
Religious Studies: 1000, 1010, 1020, 2011, 2013, 2050, 2051, 2610, 3010, 3020, 3030, 3040, 3200, 3401, 3820, 3840, 3880
Science: 3000, 3001, 4000, 4950, 4951, 4959
Social/Cultural Studies: 4000, 4100, 4950
Sociology: 2240, 2610, 3140, 3150, 3290, 3395, 4072
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
Women's Studies: 2001
University: 1010

4.2 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) Forestry 1010, 1011, 2225 Mathematics (All courses) Statistics (All courses) Physics (All courses)
Social Science Business 1101, 2101, 2401, 4500 Economics 2010, 2020, 3150 Environmental Studies 2000 Geography 3222 Psychology 2925, 2950, 3950 Sociology 3040

Notes:
1. *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.*
2. *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.

5 The Bachelor of Arts and Bachelor of Science Degree Programs

5.1 General Regulations

For the Bachelor of Arts and Bachelor of Science degrees at Sir Wilfred Grenfell College 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

   Note: *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

5.2 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

   Notes: *1. 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.*
   2. 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 Sir Wilfred Grenfell College section of the University Calendar
4. Single discipline majors are available in following areas:

   Division of Arts: English, Historical Studies
   Division of Social Science: Psychology (B.A. and B.Sc.); Tourism Studies

   Interdisciplinary majors are available in following areas:

   Division of Arts: Humanities
   Division of Social Science: Environmental Studies, Social/Cultural Studies
   Division of Science: Environmental Science, General Science

5.3 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, Historical Studies, Humanities, Philosophy, Religious Studies
Division of Social Science: Business, Canadian Studies, 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 Sir Wilfred Grenfell College 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 Sir Wilfred Grenfell College BA Degree with a Major in English who has completed the BFA (Theatre) Degree at Sir Wilfred Grenfell College will be considered to have fulfilled the requirements for a Minor in Theatre.

5.4 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.

Notes: *1. 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.*
2. 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.
3. Sir Wilfred Grenfell College reserves the right to limit the number of spaces available in each Major/Minor program.

5.5 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.

Notes: *1. A student may not use the same course to satisfy the requirements for both a Major and a Minor.*
2. 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.

6 Regulations for the Honours Degrees of Bachelor of Arts and Bachelor of Science at Sir Wilfred Grenfell College

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.

6.1 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.

   Note: *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 Sir Wilfred Grenfell College 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.

6.2 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.

6.3 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 Sir Wilfred College.
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.

6.4 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.

6.5 Residence Requirements

To qualify for an Honours degree in Arts or Science, a candidate shall attend this University for a minimum of four semesters as a full-time student in the program of specialization except with the permission of the Academic Studies Committee.

6.6 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, excluding 1000-level courses. 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.)

Notes: *1. Students who wish to fulfil the requirements of 5.6, 1. above 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.*
2. For a definition of "Honours subject(s) prescribed by the Program concerned" in 5.6., 1. above, students should consult the regulations governing specific Honours degree programs.

6.7 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 5.6 but not of clause 5.7, 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".

7 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.

7.1 Major in English Language and Literature

Program Chair: Dr. K. Jacobsen

The Major consists of 42 credit hours including an English Core and one of four possible concentrations.

7.1.1 English Core

1. English 1000 and 1001 or equivalent
2. English 2005, 2006, 2007, 3205 or 3206, 3395, 4105

7.1.2 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, 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, 2705, 2805, 2870, 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.

7.2 Major in Historical Studies

Program Chair: Dr. R. Baehre

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
      History 2100, 2200, 2300, 2320, 2330, 3050, 3110, 3760
      History/Anthropology 3520
      History/Art History 2700

   b. **Later Western History**
      History 2110, 2120, 2210, 2310, 2500, 3060, 3120, 3250, 3440, 3460, 3490, 3770, 3800-3830
      History/Art History 2701
      History/Anthropology 3525
      History/Economics 3630
3. Six credit hours in 4000-level History courses from the following list (no more than 3 credit hours from any single category):

   History 4110-4130
   History 4210-4229
   History 4230-4231
   History 4240-4260
   History 4310-4330
   History 4410-4430
   History 4560-4570

History/Art Hist. 4730-4731

4. Fifteen credit hours in courses from the following list:

   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.*

5. Students will normally be allowed to register in History courses having the initial digit '3' only after they have successfully completed 6 credit hours in courses having the initial digit '2'.
6. Students are required to take 6 credit hours in history (in addition to History 1100/1101) or have permission of the instructor before enrolling in any fourth-year history course.

7.3 Major in Humanities

Program Chair: Dr. D. Peddle

The Major consists of a Humanities Core requirement and a Social Sciences requirement.

1. **Humanities Core Requirement**
   a. Humanities 3000, 4000, and 4950
   b. A total of 39 credit hours in two disciplines (referred to as Discipline One and Discipline Two) from Group A below
      i. At least 21 credit hours in Discipline One of which at least 3 credit hours must be at the 4000 level
      ii. At least 12 credit hours in Discipline Two
   c. Six credit hours in each of the remaining five disciplines in Group A for a total of 30 credit hours
   d. At least 12 credit hours in Humanities Core must be at the 3000 level

   Group A:
   Humanities
   Classics
   English
   French (or another modern language)*
   History
   Philosophy
   Religious Studies
   Fine Arts (Art History and Theatre 1000, 1001)

   * Subject to approval by the Chair of Humanities

2. **Social Sciences Requirement**

   Students must complete 12 credit hours in disciplines chosen from Group B below. At least 6 credit hours must be beyond the 1000 level.

   Group B:
   Social Sciences
   Anthropology
   Business
   Economics
   Folklore
   Geography
   Political Science
   Psychology
   Sociology
   Women's Studies

Environmental Studies

7.4 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:**
   a. French 2100 and 2101 or French 2159 and 2160
   b. French 3100 or French 3101
   c. 15 additional credit hours in French

   Notes: *1. no more than 6 credit hours at the 1000 level may be used to fulfill the minimum requirement of the minor in French*
   2. no more than 6 transfer credits may be used to fulfill the minimum requirements of the minor 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 3000 and 4000
   b. Nine credit hours in each of two disciplines from the following list:

   Classics
   English (not including first-year offerings)
   Fine Arts (Art History, Theatre 1000, 1001)
   French (or another modern language approved by Program Chair of Humanities)
   Philosophy
   History
   Religious Studies
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.

8 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 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).

8.1 Major in Environmental Studies

Program Chair: D. Carroll

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.

1. **Environmental Studies Core**

   Students must complete the following courses:

   Economics 2010
   Environmental Studies 1000
   Environmental Studies 2000
   Environmental Studies 3000
   Environmental Studies 3001
   Environmental Studies 4010
   Environmental Studies 4950
   Geography 1000

Geography 3222
Philosophy 2809

2. **Environmental Studies Concentrations**

   Students must complete 42 credit hours in one of the following concentrations:

   a. **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
      Political Science 3550
      Political Science 3731
      Religious Studies 3880
      Sociology 2120
      Geography 4405

   b. **Outdoor Environmental Pursuits Concentration**

      i. Environmental Studies 2210, Environmental Studies 2220, Environmental Studies 3210, Human Kinetics and Recreation (HKR) 3555, and Human Kinetics and Recreation (HKR) 4555

      ii. 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

8.2 Major in Psychology - B.A. and B.Sc.

Program Chair: Dr. S. Wright

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
3. At least 9 credit hours chosen from the following Contemporary Issues courses: Psychology 3025, 3125, 3225, 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:

1. Six credit hours in Mathematics, which must include Mathematics 1000
2. Biology 1001 and 1002
3. Chemistry 1200 and 1001 OR Physics 1020 (or 1050) and 1021 (or 1051)
4. 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

5. Nine additional credit hours chosen in any combination from the following subjects: Biochemistry, Biology, Chemistry, Computer Science, Earth Science, Environmental Science, Mathematics, Physics, Statistics

Notes:
1. *2925. Research Methods and Data Analysis in Psychology I has the following Mathematics prerequisites - Mathematics 1000 or any two of the following courses: Mathematics 1090, 1050, 1051.*
2. *2925. Research Methods and Data Analysis in Psychology I is a prerequisite for 2950, Research Methods and Data Analysis II, and for all 3000 and 4000 level Psychology courses.*
3. *Some Psychology courses require regular laboratory classes. Others may require the completion of research, study projects or field projects.*

8.2.1 Requirements for Honours in Psychology

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 Sir Wilfred Grenfell College are 120 credit hour programs normally requiring four years for completion (See regulations for the **Honours degree of Bachelor of Arts and Bachelor of Science at Sir Wilfred Grenfell College)**.

The following requirements govern the Bachelor of Arts (Honours) and the Bachelor of Science (Honours) degrees in Psychology:

1. **Course Requirements**
   a. Students must meet the General Regulations for Sir Wilfred Grenfell College Bachelor of Arts or Bachelor of Science degree.
   b. Candidates must also complete:
      i. Psychology 1000, 1001, 2025, 2125, 2225, 2425, 2625, 2825, 2925, 2950, 3950, 4910, 4925
      ii. Fifteen credit hours from Psychology 3025, 3125, 3225, 3325, 3425, 3525, 3625, 3626, 3627, 3628, 3725, 3825
      iii. A two-semester research project, Psychology 4951 and 4959.
   c. Candidates for the Bachelor of Science (Honours) degree in Psychology shall also complete an additional 27 credit hours as follows:
      i. Six credit hours in Mathematics, which must include Mathematics 1000
      ii. Biology 1001 and 1002
      iii. Chemistry 1200 and 1001 OR Physics 1020 (or 1050) and 1021 (or 1051)
      iv. 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.

8.3 Major in Social/Cultural Studies

Program Chair: Dr. D. Klassen

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 Sociology and/or Folklore and/or Anthropology

8.4 Major in Tourism Studies

8.4.1 Admission Modes and Requirements

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.

Advanced Standing (for Current Memorial University of Newfoundland Students)

1. 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.
2. 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.

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. 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.

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.

8.5 Bachelor of Business Administration

8.5.1 Regulations for the Degree of Bachelor of Business Administration (BBA)

The Bachelor of Business Administration (BBA) degree program at Sir Wilfred Grenfell College 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, small business and entrepreneurship, or economic development.

8.5.2 Admission Modes and Requirements

8.5.2.1 Direct Entry (for High School Students)

Students may apply for admission into the BBA program directly from high school by indicating this in the appropriate place on the Undergraduate Application for Admission/Readmission to Memorial University of Newfoundland. Direct admission from high school is subject to the applicant's final acceptance to the University.

8.5.2.2 Advanced Standing (for Current Memorial University of Newfoundland Students)

1. Current Memorial University of Newfoundland students may apply for admission to the BBA program with advanced standing after the successful completion of the 30 credit hours specified under **The Curriculum**, 2. below with an overall average of at least 65% in those specified 30 credit hours.
2. Students applying for advanced standing in the BBA Program must complete and submit an Application for Admission/Readmission to the Chair of the Business Administration program.
3. Admission with Advanced Standing is limited and competitive. The primary criterion used in reaching decisions on applications for admission/readmission with advanced standing is overall academic achievement. Selection, therefore, will be based on a student's overall academic performance.

8.5.2.3 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. The acceptance of transfer students into the BBA program is subject to the same conditions outlined under **Advanced Standing (for Current Memorial University of Newfoundland Students)** above.
2. Subject to **Advanced Standing (for Current Memorial University of Newfoundland Students)**, 3. above, graduates of a three year community college business diploma program may also be considered for admission with advanced standing into the BBA 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.

8.5.3 The Curriculum

1. The Bachelor of Business Administration requires a total of 120 credit hours.
2. Students who have gained direct entry to the BBA program must successfully complete the following 30 credit hours by the end of Spring semester of their first year for continuance in the program:
   a. Business 1000 and 2000
   b. Economics 2010 and 2020
   c. Six credit hours in first year English
   d. Math 1000
   e. Nine additional credit hours in non-business elective courses.
3. 48 credit hours as follows:

   Business 1101, 1201, 1600, 2101, 2301, 2401, 2700, 3401, 4000, 4320, 4500, 5301, 7000, 7010, 7025, and Statistics 2500.
4. Students must choose one of the following areas of concentration:
   a. **Contemporary Business Studies**
      i. 12 credit hours:
         - one of Business 2808, Philosophy 1600, or Philosophy 2230
         - Business 7050
         - Business 7302
         - one of Economics 3030 or 3150

b. **Small Business and Entrepreneurship**
   i. 9 credit hours:
      - Business 2201
      - Business 5600
      - Business 7600
   ii. 6 credit hours chosen from:
      - Business 6200
      - Business 6500
      - Business 6600
      - Business 6610
      - Business 7610

c. **Regional Economic Development**
   i. 9 credit hours:
      - Business 3320
      - Business 4010
      - Business 4020
   ii. 6 credit hours chosen from:
      - Business 5010
      - Business 6800
      - Economics 4010
      - Economics 4011
      - Social/Cultural Studies 3210
      - Tourism Studies 4020

5. Additional courses to make up the total of 120 credit hours. When selecting these courses, students are reminded that **Core Requirements** for a SWGC degree program must be met. In addition, if students choose to complete a minor within the BBA 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.
6. For graduation, a student must be enrolled in the BBA program, have obtained a minimum overall average of 60% on the program courses specified under **The Curriculum** 3. and 4. above, and must have successfully completed other courses to make up the total of 120 credit hours.

8.5.4 Minor from another Academic Unit

Students enrolled in the BBA 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.

8.5.5 Continuation

1. The standing of every student will be assessed at the end of each academic term by the Program Chair of Business. The decisions of the Chair will be issued to the individual students by the Office of the Registrar.
2. Students gaining direct entry to the BBA program and those with advanced standing must maintain a 65% overall average in the 30 credit hours specified under **The Curriculum**, 2. above for continuance in the program.
3. Students who have been required to withdraw following the completion of **The Curriculum**, 2. 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 these continuation requirements will not be reflected on a student's transcript.
4. Following the completion of **The Curriculum**, 2. students must qualify for continuation after each term of study. For continuation, students must have an overall average of 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.

   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 re-apply to the Program for readmission using the appropriate application form.

   A required withdrawal will be reflected on a student’s transcript.
5. Students who are required to withdraw a second time under 4 above are not eligible for readmission into the program.
6. The Academic Studies Committee may allow a student, who fails to achieve the standards outlined under 4 above, to continue in the program. A decision of this nature will be made only for reasons acceptable to this Committee.

8.5.6 Recommended Course of Study for BBA Curriculum

8.5.6.1 Contemporary Business Studies Table

Contemporary Business Studies	
Year 1 **Semester 1** Business 1000 Economics 2010 Three credit hours in English Six credit hours in non-business elective courses* **	**Semester 2** Business 2000 Economics 2020 Three credit hours in English Mathematics 1000 Three credit hours in non-business elective courses**
Year 2 **Semester 3** Business 1101 Business 1201 Business 1600 Business 2401 Three credit hours in elective courses**	**Semester 4** Business 2101 Business 2700 Business 2808 or Philosophy 1600 or 2230 Six credit hours in elective courses**
Year 3 **Semester 5** Business 2301 Business 4000 Economics 3030 or Economics 3150 Statistics 2500 Three credit hours in elective courses**	**Semester 6** Business 3401 Business 4320 Business 4500 Six credit hours in elective courses**
Year 4 **Semester 7** Business 5301 Business 7000 Business 7302 Six credit hours in elective courses**	**Semester 8** Business 7010 Business 7025 Business 7050 Six credit hours in elective courses**

* Depending on your level of preparation in Mathematics, you may be required to complete Mathematics 1090 as a prerequisite for Mathematics 1000.

** When selecting electives, students are reminded that **Core Requirements** for a SWGC degree program must be met. In addition, if students choose to complete a minor within the BBA 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.

8.5.6.2 Small Business and Entrepreneurship Concentration Table

Small Business and Entrepreneurship Concentration	
Year 1 **Semester 1** Business 1000 Economics 2010 Three credit hours in English Six credit hours in non-business elective courses* **	**Semester 2** Business 2000 Economics 2020 Three credit hours in English Mathematics 1000 Three credit hours in non-business elective courses**
Year 2 **Semester 3** Business 1101 Business 1201 Business 1600 Business 2401 Three credit hours in elective courses**	**Semester 4** Business 2101 Business 2201 Business 2700 Six credit hours in elective courses**
Year 3 **Semester 5** Business 2301 Business 4000 Statistics 2500 Three credit hours from concentration electives*** Three credit hours in elective courses**	**Semester 6** Business 3401 Business 4320 Business 4500 Business 5600 Three credit hours in elective courses**
Year 4 **Semester 7** Business 5301 Business 7000 Three credit hours from concentration electives*** Six credit hours in elective courses**	**Semester 8** Business 7010 Business 7025 Business 7600 Six credit hours in elective courses**

* Depending on your level of preparation in Mathematics, you may be required to complete Mathematics 1090 as a prerequisite for Mathematics 1000.

** When selecting electives, students are reminded that **Core Requirements** for a SWGC degree program must be met. In addition, if students choose to complete a minor within the BBA 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 Small Business and Entrepreneurship must be selected from **The Curriculum**, 4b.

8.5.6.3 Regional Economic Development Concentration Table

Regional Economic Development Concentration	
Year 1 **Semester 1** Business 1000 Economics 2010 Three credit hours in English Six credit hours in non-business elective courses*	**Semester 2** Business 2000 Economics 2020 Three credit hours in English Mathematics 1000 Three credit hours in non-business elective courses*
Year 2 **Semester 3** Business 1101 Business 1201 Business 1600 Business 2401 Three credit hours in elective courses**	**Semester 4** Business 2101 Business 2700 Business 3320 Six credit hours in elective courses**
Year 3 **Semester 5** Business 2301 Business 4000 Statistics 2500 Three credit hours from concentration electives*** Three credit hours in elective courses**	**Semester 6** Business 3401 Business 4320 Business 4010 Business 4500 Three credit hours in elective courses**
Year 4 **Semester 7** Business 5301 Business 7000 Three credit hours from concentration electives*** Six credit hours in elective courses**	**Semester 8** Business 7010 Business 7025 Business 4020 Six credit hours in elective courses**

* Depending on your level of preparation in Mathematics, you may be required to complete Mathematics 1090 as a prerequisite for Mathematics 1000.

** When selecting electives, students are reminded that **Core Requirements** for a SWGC degree program must be met. In addition, if students choose to complete a minor within the BBA 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 Regional Economic Development must be selected from **The Curriculum**, 4c.

8.6 Minor Programs - Division of Social Science

Minor programs require 24 credit hours

1. **Regulations for a Minor in Business**
   a. Students who are completing degrees in the Divisions of Arts, Science, or Social Science may complete a minor in Business.
   b. Students applying for admission to the Business minor program must have completed a minimum of 30 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 BBA Program.
   c. Admission into the minor program is limited and competitive: at the time of application a student must have a cumulative average of at least 65% on the last 30 credit hours completed.
   d. A minor in Business consists of 24 credit hours. Students must complete 18 credit hours as follows: Business 1000, 1101, 1201, 2301, 4500, and 7010. The remaining 6 credit hours must be chosen from Business 1600, 2101, 2201, 4000, 4320, or 7302.
   e. 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 be noted that some courses are not offered every semester.
2. **Minor in Canadian Studies**

   A Minor in Canadian Studies shall consist of 24 credit hours as follows:

   a. Fifteen credit hours in courses on the following list 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 on the following list 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. **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.
4. **Folklore Minor:**
   a. Folklore 1000, 2100, 2300, 2401, 2500
   b. Nine additional credit hours in Folklore
5. **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.
6. **Psychology Minor:**
   a. Psychology 1000, 1001, 2925
   b. Nine credit hours in Psychology at the 2000 level
   c. Six credit hours in Psychology at the 3000 level
7. **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 Sociology, Anthropology and Folklore
8. **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
9. **Regulations for a Minor in Tourism Studies**
   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.
10. **Regulations for an 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.

8.7 Articulation Agreement With the College of the North Atlantic

8.7.1 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, Corner Brook Campus, or who are in their final semester of this program, can apply for entry with advanced standing into the Environmental Studies Degree Program offered by Sir Wilfred Grenfell College.

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 Sir Wilfred Grenfell College 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 2809

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.*

9 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).

A memorandum of understanding has been established with the University of New Brunswick whereby students can complete the first two years of the University of New Brunswick's Bachelor of Science program in Forestry at Sir Wilfred Grenfell College.

9.1 Major in Environmental Science

Program Chair: Dr. Christine Campbell

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), Math 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 **Honours section**)

   b. At least two of:

      Anthropology 3083
      Economics 2010
      Environmental Studies 3000
      Philosophy 2809
      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 asterisked courses in their first year.

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 2300 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* sequence or Chemistry 1050/1051* sequence.
      Chemistry 2210, 2300 and 2400/2401 or equivalent
      Environmental Science 2261, 3210, 3211, 3260, 3261, 4230
      Two of Environmental Science 4069, 4131, 4240, 4249, 4479
      Mathematics 1001

   *It is strongly recommended that students complete one of the sequences of Chemistry courses in their first year. Students in the Chemistry stream should also complete Mathematics 1001 in their first year.

Note: *It is strongly recommended that students complete one of the sequences of Chemistry courses marked with an asterisk in their first year. Students in the Chemistry stream should also complete Mathematics 1001 in their first year.*

9.2 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 Sir Wilfred Grenfell College is a 120 credit hour program normally requiring four years for completion. (See **regulations for a Honours degree in Arts and Science at Sir Wilfred Grenfell College**.) The following requirements govern the Bachelor of Science (Honours) in Environmental Science:

1. **Course Requirements**

   a. Students must meet the General Regulations for Sir Wilfred Grenfell College Bachelor of Science degree.

   b. Candidates must also complete:

      i. the Environmental Science Core requirements

      ii. the course requirements of a specific stream

   c. 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:

      i. For the Honours Bachelor of Science in Environmental Science (Biology), a further course chosen from: Environmental Science 4069, 4131, 4133, 4240, 4479

ii. For the Honours Bachelor of Science in Environmental Science (Chemistry), a further course chosen from: Environmental Science 4069, 4131, 4240, 4249, 4479

d. 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.

e. 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).

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.

3. **Academic Standing**

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 Sir Wilfred Grenfell College**.

Courses used to calculate the academic standing as outlined in the **General Regulations for an Honours Degree at Sir Wilfred Grenfell College** 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.

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, 2400, 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

Students will normally not be allowed to repeat courses to fulfil the academic standing criteria for the Bachelor of Science (Honours) in Environmental Science.

Note: *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.*

9.3 Major in General Science

Program Chair: Dr. Georg Gunther

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. 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, Environmental Science 3072, 3110, 3130, 3131, 4104 (or equivalent field course) where at least 6 credit hours must be beyond the 2000 level.

Chemistry:
Chemistry 1001, 1200, 2210, 2300
Either Chemistry 2440 or both 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 two courses of which are beyond the 2000 level: Environmental Studies 2000, 3001, Environmental Science 2360, 2370, 2371, 2450, 3072, 3470, 4069, 4479, Earth Science 3811.

Mathematics:
Mathematics 1000, 1001, 2000, 2050, Pure Mathematics 2320
Nine additional credit hours beyond the 1000 level chosen from Applied Mathematics, Mathematics, Pure Mathematics or Statistics, at least 6 of which must be beyond the 2000 level.

Physics:
Physics 1050, 1051, 2056, 2065, 3060, 3220
Two of Physics 2151, 3160, Earth Science 2150, Environmental Science 2430, 2450, 3470, 4479

Notes: *1. A student may not use the same course to satisfy the requirements of more than one stream.*
2. Students planning their course selection should be aware of the fact that most senior level science courses have one or more specified prerequisites.

9.4 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 Sir Wilfred Grenfell College**). The following requirements govern the Bachelor of Science (Honours) in General Science:

1. **Course Requirements**
   a. **General Science Core**:
      Students must complete all of the course requirements of the General Science Core.
   b. **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.
2. **Honours Dissertation:**
   For students doing Honours, the Independent Project Science 4950 will be replaced by a two-semester Honours Project, Science 4951/Science 4959.
3. **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 Sir Wilfred Grenfell College**. Courses used to calculate the academic standing as outlined in the General Regulations for an Honours Degree at Sir Wilfred Grenfell College include all courses listed in the stream requirements, with the exception of all 1000 level courses.

9.5 Minor Programs - Division of Science

Environmental Science Minor:

Students may choose one of the following three options:

1. Environmental Science
   a. Biology 1001, 1002 and 2600 or Chemistry 1200, 1001, and one of Chemistry 2440 or Environmental Science 2261
   b. 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
   a. Biology 1001, 1002, 2010, 2122, 2600
   b. Three credit hours from Environmental Science 3110, 3130, 3131, 4131
   c. 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
   a. Chemistry 1200, 1001, 2210, 2300, 2440
   b. Three credit hours from Environmental Science 3210, 3261, 4240
   c. 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:

1. Mathematics 1000, 1001 (The only other course at the 1000 level which carries credit toward a Minor in Mathematics is Computer Science 1700.)
2. 18 additional credit hours in Mathematics, Pure Mathematics, and Applied Mathematics courses beyond 1000 level or 15 additional credit hours Mathematics, Pure Mathematics, and Applied 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:

1. 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).

Note: *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.*

9.6 Articulation Agreement With the College of the North Atlantic

9.6.1 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 Sir Wilfred Grenfell College. 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 Sir Wilfred Grenfell College will need to satisfy all other core program requirements specified for Grenfell 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 2809 (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)

9.7 Forestry

Under the terms of a Memorandum of Understanding (MOU) between Sir Wilfred Grenfell College and the University of New Brunswick, students are able to complete the first two years of UNB's Bachelor of Science program in Forestry at Sir Wilfred Grenfell College. Once they have successfully completed the courses required by this MOU, students will be permitted entry into the third year of UNB's five-year degree program. For more specific details about this program, contact the College Registrar, Sir Wilfred Grenfell College, Corner Brook, Newfoundland and Labrador, A2H 6P9.

The MOU stipulates that students must complete the following courses before being admitted into the third year of UNB's program:

Biology 1001, 1002, 2010
Chemistry 1200, 1001 (or equivalent)
Mathematics 1000, 2050
Computer Science 1700
Statistics 2550
Earth Science 1000
Forestry 1001, 1010, 1011, 1900, 2001, 2221, 2222, 2223, 2224, 2225

Note: *Forestry 1001, 2001 are five-day field camps that will be completed in late August, prior to the start of the Fall semester.*

For detailed information about the UNB program, contact the Assistant Dean, Faculty of Forestry, University of New Brunswick, Fredericton, New Brunswick, E3B 6C5.

10 Division of Fine Arts

Bachelor of Fine Arts degrees are available in Theatre and in Visual Arts.

Note: *Students completing a Fine Arts degree are not required to follow the Sir Wilfred Grenfell College Core program requirements.*

Minor Program is available in Art History

10.1 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 Sir Wilfred 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).

10.1.1 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 April 30th of the year in which admission is sought.

10.1.2 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 BFA 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 will be expected to take the full course load as prescribed each semester and so progress through the degree in clearly defined blocks of courses. A student failing to take the full number of courses in a given semester would seriously jeopardize his/her ability to complete the degree.

10.1.3 Degree Regulations

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:
6. Theatre 1000, 1001, 1010, 1020, 4030, 4040, and 4001 (Harlow Institute - 10 credit hours) and
7. 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

Notes:
1. *Where circumstances warrant any prerequisite(s) for Theatre courses may be waived by the Head of the Division of Fine Arts.*
2. *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.*
3. *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 Head of the Division of Fine Arts. Permission will be given only where a student demonstrates above average academic performance as well as exceptional theatrical ability.*
4. *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.*
5. *Any departmental regulations may be waived by the Committee on Undergraduate Studies upon request of the Head of the Division of Fine Arts by the appropriate Committee on Undergraduate Studies.*

10.1.4 Course Structure for the Bachelor of Fine Arts in Theatre

1st Year	3rd Year
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
2nd Year	**4th Year**
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)

10.2 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.

10.2.1 Admission Requirements

1. **Academic Requirements**

   Applicants must meet the general admission requirements of the University.

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 April 15th 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.

3. **Transfers From Other Universities/Colleges**

   See ***UNIVERSITY REGULATIONS*** **- Admission/Readmission to the University (Undergraduate)**.

Notes:
1. *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.*
2. *Where circumstances warrant, any prerequisite(s) or co-requisite(s) for Visual Arts courses may be waived by the Program Chair.*
3. *Any Visual Arts regulations may be waived by the Committee on Undergraduate Studies upon request of the Program Chair.*

10.2.2 Academic Performance

1. Attendance at all studio courses is considered vital to the program and will be required. It will be used as part of the evaluation.
2. a. 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.

   b. Students who fail any studio course will be required to repeat that course and obtain a grade of at least 65%.
3. Students must normally complete all 1000 level studio courses before advancing to any 2000 level studio course.
4. A candidate whose average in Visual Arts courses falls below 65% in any semester will be placed on probation by the Visual Arts

program.

5. 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.
6. 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).
7. 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 April 15th for the upcoming Fall semester, or by August 30th for the upcoming Winter semester.
8. 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 April 15th for the upcoming academic year.
9. Candidates who have been required to withdraw twice from the Bachelor of Fine Arts (Visual Arts) program shall be ineligible for further admission.
10. 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).
11. 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).

10.2.3 Degree Regulations

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, 2701 and an additional 18 credit hours in Art History
4. Visual Arts 100A/B; 110A/B; 120A/B; 2000/2001.
5. Studio Courses

   Forty-two credit hours in studio courses as follows:
   a. Three of I., ii., iii., iv., or v.
      i. Visual Arts 2100/2101
      ii. Visual Arts 2200/2201
      iii. Visual Arts 2310/2311, and/or 2320/2321
      iv. Visual Arts 2400/2401
      v. Visual Arts 2600/2601
   b. Three of I., ii., iii., iv., or v.
      i. Visual Arts 3100/3101
      ii. Visual Arts 3200/3201
      iii. Visual Arts 3310/3311 or 3320/3321
      iv. Visual Arts 3400/3401
      v. Visual Arts 3500/3501
      vi. Visual Arts 3000 and 3001
      vii. Visual Arts 3510 and 3511
   c. Six additional credit hours in studio electives at 2000 or 3000 level.

   Studio courses are offered in the following subjects: Drawing, Two-dimensional design, Three-dimensional design, Painting, Sculpture, Printmaking, 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 4950/4951

Notes: *1. 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.*
2. Graduation Work. 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 College.

Program Example:

Year 1 - Foundation Year

Drawing I (100A/B)
Two-D Design (110A/B)
Three-D Design (120A/B)
Six credit hours in Art History Survey I, II (2700/2701)
Six credit hours in English Language and Literature

Year 2

Second Year Drawing I, II (2000/2001)
Two of: Introductory Painting I, II (2100/2101), Introductory Sculpture I, II (2200/2201), Introductory Printmaking I, II (2310/2311 or 2320/2321), Introductory Photography I, II (2400/2401)
Six credit hours in Art History Courses
Six credit hours in Academic Electives*

Year 3

Intermediate Drawing I, II (3000/3001)
One of: Introductory Digital Imaging I, II (2600/2601), Intermediate Painting I, II (3100/3101), Intermediate Sculpture I, II (3200/3201), Intermediate Relief and/or Intaglio I, II (3310/3311), or, Intermediate Serigraphy and/or Lithography I, II (3320/3321), Intermediate Photography I, II (3400/3401), Multi-Media I, II (3500/3501)
Six credit hours in 2000 or 3000 level Studio Electives
Six credit hours in Art History Courses
Six credit hours in Academic Electives*

Year 4

Independent Projects in Studio I, II (4950/4951) 3 credit hours each
Twelve credit hours in 2000 or 3000 level Studio Electives
Six credit hours in Art History Courses
Six credit hours in Academic Electives*

* To be chosen in consultation with the Program Chair.

10.3 Minor Program - Fine Arts

Art History Minor

Visual Arts 2700 and 2701
18 credit hours in Art History at the 3000- or 4000-level

11 Course Descriptions

Notes:
1. *Prerequisites may be waived by the Head/ Program Chair of the course area in question.*
2. *Upon the recommendation of the appropriate Program Chair(s), any Major requirements may be waived by the Academic Studies Committee.*
3. *Some of the courses in this section of the Calendar are available only at Sir Wilfred Grenfell College. Students who choose to transfer from Grenfell 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.*

11.1 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 Division.

Anthropology 1030 (Introduction to Archaeology and Physical Anthropology) and 1031 (Introduction to Social and Cultural Anthropology) 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.

1030 Introduction to Archaeology and Physical Anthropology is a broad overview of Archaeology and Physical Anthropology 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.
Note: *Credit may not be obtained for both Anthropology 1030 and the former Anthropology 1000 or 2000.*

1031 Introduction to Social and Cultural 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.
Note: *Credit may not be obtained for both Anthropology 1031 and the former Anthropology 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.

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.

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.
Prerequisite: Folklore 1000 or 2000, or Anthropology 1031.
Note: *Credit may not be obtained for both Folklore 2300 and the former Folklore 3420.*

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.

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.

2430 Physical Anthropology: The Human Animal 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.
Prerequisite: Anthropology 1030.

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.
Prerequisite: Folklore 1000 or 2000, or Anthropology 1031.
Note: *Credit may not be obtained for both Folklore 2500 and any of the former Folklore 3400, English 3400, Sociology/Anthropology 3400.*

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, ©) 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.

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.

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 and 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.

11.2 Biochemistry

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 fulfil 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.
Prerequisite: Level 3 Chemistry or Chemistry 1010 or Chemistry 1810 or equivalent.
Lectures: Four hours per week
Note: *Credit may be obtained for only one of Biochemistry 1430 and the former 2430.*

11.3 Biology

Note: *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.*

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.
Three hours of lecture and a three-hour laboratory per week.
Note: *Biology 1001 is a prerequisite for Biology 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.
Three hours of lecture and a three-hour laboratory per week.
Prerequisites: Biology 1001, Biology 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.
Three hours of lectures/seminars per week.

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.
Three hours of lecture/seminar per week.
Note: *Biology 2040 and 2041 are not acceptable as any of the required courses for the Minor, Major or Honours programs in Biology. There are no prerequisites for these courses.*

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.
Three hours of lecture and three hours of laboratory per week.
Prerequisite: Biology 1001 and Biology 1002.
Note: *Credit may not be obtained for both Biology 2122 and the former Biology 3122.*

2210 Biology of Vertebrates is a study of the vertebrates, with emphasis on structure and function, adaptations and life histories.
Three hours of lecture and three hours of laboratory per week.
Prerequisite: Biology 1002.
Note: *Credit may not be obtained for both Biology 2210 and the former Biology 3210.*

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.
Three hours of lecture and three hours of laboratory per week.
Prerequisites: Biology 1001 and 1002; Chemistry 1010 and 1011 (or 1050/1051).
Prerequisites or co-requisites: Chemistry 2440 or 2400.
Note: *Credit may not be obtained for both Biology 2250 and the former Biology 3250.*

2600 Principles of Ecology is a conceptual course introducing the principles of ecology, including theoretical, functional and empirical approaches.
Three hours of lecture and three hours of laboratory per week.
Prerequisite: Biology 1002.
Note: *Credit may not be obtained for both Biology 2600 and the former Biology 3600.*

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.
Lecture: Three hours per week.
Laboratories: Two hours per week.
Note: *Biology 3053 is 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.*

11.4 Business

Notes:
1. *Any prerequisite listed may be waived by permission of the instructor and Program Chair.*
2. *Enrolment in Business courses is limited and first priority will be given to students registered in Sir Wilfred Grenfell College's Business Administration programs and Memorial University of Newfoundland's Faculty of Business Administration programs.*

11.4.1 Core Program Course Descriptions

1000 Introduction to Business is an overview of business in the Canadian environment is presented in the course with emphasis on the stakeholders involved and the issues confronting managers. The course examines the functional areas of the enterprise (finance, marketing, production, and human resources management) in addition to providing an overview of the business system. An analysis of actual business situations provides a framework of study.
Note: *Credit may not be obtained for both Business 1000 and the former 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.
Note: *Credit may not be obtained for Business 1101 and either of the former 3100 and the former 2100.*

1201 Principles of Marketing (W) provides an overview of the marketing function, emphasizing customer satisfaction as the focal point of an organization's activities. The course examines customer characteristics and behaviours as a crucial element in the design of effective marketing strategies and programs. The course also deals in detail with the elements of the marketing mix: products and services; pricing; distribution channels; and promotion.
Prerequisite: Business 1000 or the former 2001.
Note: *Credit may not be obtained for both Business 1201 and the former 3200 and Tourism Studies 2201*

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.
Prerequisite: Business 1000.

2000 Business Communications (W) 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.

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.
Prerequisite: Business 1101.
Note: *Credit may not be obtained for both Business 2101 and the former 4100.*

2301 Organizational Behaviour 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.
Note: *Credit may not be obtained for both Business 2301 and the former 4300.*

2401 Quantitative Methods for Business (QRA) includes series, probability, linear algebra with applications, graphing (including two-variable linear optimization), and business applications of differential calculus; where applicable, spreadsheets will be used.
Prerequisite: Mathematics 1000 or the former 1081.
Note: *A knowledge of the basic operations of spreadsheets is required.*

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.
Laboratory: Three hours per week
Notes:
1. *Credit may not be obtained for both Business 2700 and Computer Science 1600, 2650, and 2801*
2. *Business 2700 can not be used as a Business elective in programs offered by the Faculty of Business Administration.*

3401 Operations Management presents and discusses the fundamental concepts necessary to understand the nature and management of the operations function in organizations. The course will focus on forecasting for operations, inventory management; capacity, aggregate and requirements planning; operations scheduling; quality management and continuous improvement; just-in-time systems; product and service design. Case studies will be used.
Prerequisites: Statistics 2500 and Business 2401
Note: *Credit may not be obtained for both Business 3401 and the former 5400.*

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.
Note: *Credit may not be obtained for both Business 4000 and the former 3000.*

4320 Human Resource Management introduces the student to the design, operation and management of P/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 P/HRM is included. The course views the management of human resources as the joint responsibility of line and P/HRM managers.
Prerequisite: Business 2301.

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.
Prerequisites: Business 1101, Statistics 2500, and Economics 2010.
Note: *Credit may not be obtained for both Business 4500 and the former 4110.*

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.
Prerequisite: Business 2301.
Note: *Credit may not be obtained for both Business 5301 and the former 5300.*

7000 Organizational Strategy (W) emphasises the concepts of business and organizational strategy, and the formulation and implementation of strategy. These will be discussed from a senior management perspective and as the result of senior management decision-making. The student is expected to develop a facility in the strategic analysis of business and other types of organizations, and in strategy formulation and implementation. Theoretical concepts will be discussed and will be explored through case analysis.
Prerequisites: Business 2101, 2201, 3320, 3401, 3700, 4000, 4320, 4500, and 5301 or permission of the Chair of Business at SWGC

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.
Prerequisite: Term 7 standing or permission of the Chair of Business at SWGC

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.
Prerequisite: Business 2401; restricted to BBA students who have completed at least 75 credit hours
Note: *Credit may be obtained for only one of Business 7025, Business 4401 and the former Business 3400. Business 7025 can not be used to satisfy the requirement of Business 4401 in any program.*

11.4.2 Business Electives

Notes:
1. *All existing business courses at Memorial University of Newfoundland that are not included in the SWGC BBA core will be considered business electives.*
2. *When selecting electives, students must ensure that they satisfy requirements for one of the three concentrations under The Curriculum, 4..*

2201 Marketing Applications applies the principles learned in Business 1201 in a variety of contexts and organizations. Students gain an appreciation for the application of marketing principles in specialist application areas such as: marketing for services, not-for-profit and public sector organizations, and in an international context. In addition, an overview and appraisal of the marketing function and of marketing performance is addressed through the marketing planning process.
Prerequisite: Business 1201.
Note: *Credit may not be obtained for both Business 2201 and the former 3200.*

2808 Business Ethics (W) examines the implications of business conduct using ethics as a framework, and will provide the tools to anticipate, critically analyze, 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 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.
Prerequisites: Business 1101.
Note: *Credit may be obtained for only one of Business 3101, the former 3100, or the former 2100.*

3320 Introduction to Labour Relations 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 a career in industrial and labour relations.

3700 Information Systems provides an introduction to information systems to support operations and management. Topics include: an overview of information systems technology; data management; systems development approaches; and managing the information systems function.
Prerequisites: Computer Science 2801 (or equivalent computer literacy course) and Term 3 standing.
Notes:
1. *Credit may not be obtained for both Business 3700 and the former 6300.*
2. *Credit may not be obtained for both Business 3700 and 3701.*

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.
Prerequisites: 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.
Prerequisites: Business 2401, Business 4500, Economics 2010, and Economics 2020

4401 Management Science is an introduction to the analysis, structuring, and model formulation of quantitative business problems, and to the methods for solving these models. Topics include the management science paradigm, payoff matrices, sensitivity analysis of solutions, decision trees, imperfect information, utility theory, Markov chains, formulation of simple linear optimization models, and other topics at the discretion of the instructor; where applicable, available software will be used.
Prerequisite: Business 2401
Note: *Credit may not be obtained for both Business 4401 and the former 3400.*

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.
Prerequisite: 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 analyze the major economic problems, as well as to think critically and to find solutions.
Prerequisites: Economics 2010, Economics 2020, Mathematics 1000, and Statistics 2500

5160 Cost Accounting 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.
Prerequisites: either the former Business 3100 and 4100, or 2101
Note: *Credit may not be obtained for both Business 5160 or the former 7100.*

5200 Consumer Behaviour 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.
Prerequisite: Business 2201 or the former 3200.

5401 Linear Optimization and Extensions I: Applications is an extension of Business 4401 to more complex linear optimization models, and models which are extensions of this of the ideas of formulation. Emphasis will be on formulation and computer-based sensitivity analysis, applications to other fields of business, cases in linear optimization and related fields.
Prerequisite: Business 4401
Note: *Credit may not be obtained for both Business 5401 and the former 4400.*

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.
Prerequisite: Business 4401
Note: *Credit may not be obtained for both Business 5402 and the former 4400.*

5500 Financial Management II 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.
Prerequisite: Either the former Business 4110 or 4500.
Note: *This course was formerly Business 7140 and Business 5140. Credit may be obtained for only one of Business 5500, the former 7140, and the former 5140.*

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.
Prerequisites: Economics 2010 and 2020.
Note: *Credit may not be obtained for both Business 5530 and the former 5100.*

5600 New Venture Creation 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.
Prerequisites: Business 1101, 1600, and 2201.
Note: *This course was formerly Business 5030 and 7030. Credit may be obtained for only one of Business 5600, the former 7030 and the former 5030.*

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.
Prerequisite: Business 3700.

5701 Information Systems Development focuses on issues related to the implementation of information systems. Particular attention will be paid to the requirements of transaction processing and management reporting systems. Topics may include: transition from design to implementation, software construction, testing, documentation, training, conversion, and evaluation.
Prerequisites: Business 3700 and Computer Science 2710.

6000-6029 (Excluding 6001, 6008, 6009, 6010 and 6022) Special Topics has a range of special topics.

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.
Prerequisites: Business 2101, 2201, 3320, 3401, 3700, 4320, 4500, and 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.
Prerequisite: Business 4000.

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.
Prerequisite: Either the former Business 3100 or 3101.

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 analyzing financial information.
Prerequisite: Either the former Business 3100 or 3101.

6120 Taxation I is a determination of income tax liability of individuals and corporations, and a survey of sales taxes.
Prerequisite: Business 1101 or the former 3100, and 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.
Prerequisite: Either Business 6100 or 6110.

6200 Marketing Research 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.
Prerequisites: Business 2201 or the former 3200, and Statistics 2501 or equivalent.

6210 Advertising Management provide a theoretical background on the nature, role and principles of advertising; and to develop analytical and decision-making skills in planning, executing, evaluating and controlling advertising campaigns. Areas to be examined include: social, ethical, legal, and economic considerations; market and customer analysis; advertising objectives; advertising budgets; creative strategy; media strategy; sales promotion and advertising; campaign management and retail advertising.
Prerequisite: Business 2201 or the former 3200.

6220 Professional Selling and Sales Management focuses on professional selling skills and the selling process, as it is important to

understand them to manage a sales force effectively. The sales management component will focus on sales forecasting; planning and budgeting; sales force organization; recruiting, selecting, training, motivating, and compensating salespeople; and evaluating and controlling the sales force and individual salespeople.
Prerequisite: Business 2201 or the former 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.
Prerequisite: Business 2201 or the former 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.
Prerequisites: Business 2301 and 5301.

6310 Advanced Personnel and Human Resource Management reinforces the applied aspects of theory covered in Business 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 behaviourial foundations of Human Resource Management in both unionized and non-unionized settings.
Prerequisites: Business 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.
Prerequisites: Business 4320

6312 Employee Recruitment and Selection 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.
Prerequisite: Business 4320.
Note: *Credit may not be obtained for both Business 6312 and the former 6022.*

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 a career in industrial and labour relations.
Prerequisite: Business 3320.

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.
Prerequisites: Business 1101, Business 1600, and Business 2201

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.
Prerequisite: Either the former Business 4110 or 4500
Note: *Credit may not be obtained for both Business 6510 and the former 6140.*

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.
Prerequisite: Either Business 4500 or the former 4110.
Note: *This course has been offered as the special topics course Business 6008. Consequently, credit may not be obtained for both the former Business 6008 and the former 6500.*

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.
Prerequisite: Business 5600.
Note: *Credit may not be obtained for both Business 6600 and the former 6030.*

6610 Small Enterprise and Regional Development 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.
Note: *This course was formerly Business 7031 and 6009. Credit may be obtained for only one of Business 6610, the former 6009 and the former 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.
Prerequisite: Business 3700 or the former 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.
Prerequisite: Business 3700 or the former 6300.

6800 Current Topics in Rural and Economic Development 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.
Prerequisite: Restricted to students who have completed at least 60 credit hours

7050 Seminar in Business Administration 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.
Prerequisite: Restricted to BBA students who have completed at least 90 credit hours, or students who have permission of the Chair of Business.

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.
Prerequisites: Business 6100, 6110, 6120, and 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.
Prerequisites: Business 6100 and 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.
Prerequisite: Business 6120.

7160 Advanced Topics in Managerial Accounting introduces the student to an indepth 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.
Prerequisite: Business 5160.

7210 Retailing Management 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.
Prerequisite: Business 2201 or the former 3200.

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.
Prerequisites: Business 5200 and 6200.

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.
Prerequisite: Business 2201 or the former 3200.
Note: *Credit may not be obtained for both Business 7240 and the former 6001.*

7250 Business and Industrial Marketing 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.
Prerequisite: Business 2201 or the former 3200.
Note: *Credit may not be obtained for both Business 7250 and the former 7220.*

7302 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 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.

7310 Seminar in Human Resource Management seeks to integrate policies, procedures and methods covered in B6310 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.
Prerequisite: Business 6310.

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 a career in industrial and labour relations.
Prerequisite: Business 6320.

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 a career in industrial and labour relations.
Prerequisite: Business 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.
Prerequisite: Business 6320.

7500 Advanced Finance examines advanced developments in finance. Several topics will be selected, researched and discussed. These topics shall vary as financial practices change.
Prerequisites: Business 5500 or the former 5140, and 6510 or the former 6140.
Note: *Credit may not be obtained for both Business 7500 and the former 7130.*

7510 Options and Futures is an extension of Business 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.
Prerequisites: Business 6510 or the former 6140.
Note: *Credit may not be obtained for both Business 7510 and the former 7170.*

7600 Current Topics in Entrepreneurship 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.
Prerequisite: Business 5600.
Note: *Credit may not be obtained for both Business 7600 and the former 7032.*

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.
Prerequisite: Business 1101 or the former 3100.

7700 Strategic Information Systems examines the growing importance of information systems in helping organizations to achieve and sustain a competitive advantage. Topics covered may include: frameworks for identifying strategic applications, the role of information systems in redesigning business processes, interorganizational systems, identifying and managing risks associated with SIS, supporting globalization, and strategic implications of emerging technologies.
Prerequisite: Business 6701.

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.
Prerequisites: Business 5700, 6700, and 6701.

11.5 Chemistry

Notes:
1. *Attendance for all Chemistry Laboratory sessions is mandatory. Failure to attend may result in a failing grade or deregistration from the course.*
2. *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.*

1001 General Chemistry II is rates of reaction, chemical equilibria, thermodynamics, and introduction to organic chemistry.
Lectures: Four per week including tutorials.
Laboratory: Three hours per week.
Prerequisite: Chemistry 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 Sir Wilfred Grenfell College only.
Lectures: Four per week.
Laboratory: Three hours per week.
Note: *Credit may be obtained for only one of the following pairs of courses: Chemistry 1000 and 1001; Chemistry 1200 and 1001).*

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 Sir Wilfred Grenfell College only.
Lectures: Four per week.
Laboratory: Three hours per week.
Note: *This course may not be used as one of the Chemistry courses required for a B.Sc. Degree with a Specialization in Environmental Science at Sir Wilfred Grenfell College, 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. Credit may be obtained for only one of Chemistry 1810 or Chemistry 1800.

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.
Lectures: Three hours per week.
Note: *Chemistry 1900 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.
Prerequisites: Chemistry 1001 (or 1031 or 1051), Mathematics 1000.
Lectures: Three per week.
Laboratory: Three hours per week.

2300 Introductory Physical Chemistry is introductory chemical thermodynamics and equilibria. Complementary laboratory work with an emphasis on quantitative analysis.
Prerequisites: Chemistry 1001 (or 1031 or 1051), Mathematics 1001, Physics 1051 (or 1021).
Lectures: Three per week.
Laboratory: Three hours per week.

2400 Introductory Organic Chemistry I (F) is bonding involving carbon; conformations and sterochemistry; introduction to functional groups and nomenclature; properties, syntheses and re-actions of hydrocarbons, alkyl halides and alcohols.
Prerequisite: Chemistry 1051 or 1031; or Chemistry 1010 and 1011 with a grade of at least 80% in each; or Chemistry 1011 with a grade of at least 85%; or Chemistry 1001 with a grade of at least 65%.
Lectures: Three per week.
Laboratory: Three hours per week.
Note: *Credit will not be given for more than one of Chemistry 2400, 2420, 2440 and 240A/B.*

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.
Prerequisite: Chemistry 2400.
Lectures: Three per week.
Laboratory: Three hours per week.
Note: *Credit will not be given for more than one of Chemistry 2401, 2420, 2440, and 240A/B.*

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.
Prerequisite: Chemistry 1011 (or 1001 or 1051).
Lectures: Three per week.
Laboratory: Three hours per week.
Note: *This course is designed primarily for Biology Majors. It may not be used for credit by Chemistry or Biochemistry Majors and may not serve as a prerequisite for any other Chemistry course. Credit may be obtained for only one of Chemistry 2400, 2420, 2440, 240A/B.*

11.6 Classics

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.
Note: *Students may not receive credit for Classics 1120 and 1121 and the former Classics 120A and 120B. Classics 1120 is the prerequisite for Classics 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.
Note: *Students may not receive credit for Classics 1130 and 1131 and the former Classics 130A and 130B. Classics 1130 is the prerequisite for Classics 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.
Note: *Students may not receive credit for Classics 1100 and either of the former Classics 1000 or 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.
Note: *Students may not receive credit for Classics 1200 and any of Classics 1000, 1101, or 2001.*

2010 Greek Art and Architecture is an introduction, through illustrated lectures, to the study of the art and architecture of Ancient Greece.
Note: *Students may not receive credit for Classics 2010 and either of the former Classics 3100 or 3101.*

2015 Roman Art and Architecture is an introduction, through illustrated lectures, to the study of the art and architecture of Ancient Rome.
Note: *Students may not receive credit for Classics 2015 and either of the former Classics 3100 or 3102.*

2020 Hellenistic Civilization is an illustrated survey of the political, social, intellectual and artistic developments in 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 fusion of eastern and western thought-patterns and ideologies under the influence of Greek culture.

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.
Note: *Students may not receive credit for Classics/History 2035 and either of the former Classics/History 3910 or Classics/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.
Note: *Students may not receive credit for Classics/History 2040 and the former Classics/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.

2060 The Heroic Epic in Greece and Rome is a survey of epic poetry from the archaic period to late antiquity, with emphasis on the works of Homer and Vergil.

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.

2800 Classical Drama I is a comprehensive study of the development of Greek tragedy and the satyr-play in their social, literary and technical context, through discussions of the origins of Greek tragedy, illustrated lectures on the development and technical aspects of the Greek theatre structures, and comprehensive analyses of plays from the major writers of the genres.
Note: *Students may not receive credit for both Classics 2800 and Classics 2805.*

2801 Classical Drama II is a continuation of the work done in Classics 2800 A comprehensive study of the development of Greek comedy and Roman tragedy and comedy in their social, literary and technical context, through discussions of the origins of Greek comedy and Roman tragedy and comedy, illustrated lectures on the development and technical aspects of the Roman theatre structures, and comprehensive analyses of plays from the major writers of the genres.
Prerequisite: Classics 2800.
Note: *Students may not receive credit for both Classics 2801 and Classics 2810.*

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.
Note: *Students may not receive credit for Classics/Religious Studies 3010 and the former Classics/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.
Note: *Students may not receive credit for Classics/Religious Studies 3020 and the former Classics/Religious Studies 3121.*

3110 Greek Literature in Translation (same as English 3110) has 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.

3111 Latin Literature in Translation (same as English 3111) has 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.

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.

4000 Seminar in Greek History and Society

4010 Seminar in Roman History and Society

4020 Seminar in Greek Literature and Culture

4030 Seminar in Roman Literature and Culture

11.7 Computer Science

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.
Prerequisite: Level III Advanced Mathematics or Mathematics 1090, which can be taken concurrently.
Lectures: Three hours per week.
Laboratory: Three hours per week.
Note: *Students can receive credit for only one of Computer Science 1600, Computer Science 2650 or Computer Science 2801.*

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.
Prerequisite/Co-requisite: Mathematics 1090 (or equivalent), or Mathematics 1000.
Lectures: Three hours per week.
Laboratory: Three hours per week.

2801 Introductory Computing for Business (F and W) introduces students to computer applications in business, document processing, application development, decision support, and information management. A three hour laboratory is required.
Prerequisite: Level III Advanced Mathematics or Mathematics 1000 (which can be taken concurrently) or Mathematics 1090 (or equivalent).
Note: *Students can receive credit for only one of Computer Science 1600, Computer Science 2650 or Computer Science 2801.*

11.8 Earth Sciences

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.
Lectures: Three hours per week.
Laboratories: Three hours per week.

1001 Evolution of Earth Systems explores Earth's present structure and environment, the product of 4.5 billion years of planetary evolution, from the rock and fossil record. Examples, illustrated with rocks, fossils and maps, are selected from the geological history of North America, with particular emphasis on Newfoundland and Labrador.
Lectures: Three hours per week.
Laboratories: Three hours per week.
Prerequisite: Earth Sciences 1000.

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.
Lectures: Three hours per week.
Laboratories: Three hours per week.
Prerequisite: Earth Sciences 1000.

2150 The Solar System (F and W) is 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.
Prerequisite: Mathematics 1000 (or 1081).
Note: *Earth Sciences 2150 is designed for students taking Earth Sciences as an elective subject and may only be used as a non-Science elective for Earth Sciences Majors and Earth Sciences Honours students.*

3811 Paleontology (W) is an outline of the major changes in life forms from Archean 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.
Prerequisites: EITHER Biology 2120 (or Biology 1001 and 1002) and Earth Sciences 1002; OR Biology 2122 and 2210.
Note: *Credit may not be obtained for Earth Sciences 3811 and Biology 3811, or either the former Earth Sciences 3801 or Biology 3800.*

11.9 Economics

Economics 2010 and 2020 are prerequisites for all other Economics courses except Economics 2070.

2010 Introduction to Microeconomics I is 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 is national income accounting, aggregate income analysis, money, banking and foreign trade.

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.

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.

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.

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.

3150 Money and Banking is 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.

3550 Mathematical Economics I examines linear algebra and differential calculus, with applications to economics.
Prerequisite: Mathematics 1000 or equivalent with a "B" standing, or Mathematics 2050.

4010 Economics of Development in Less Developed Countries is a problem and policy approach to the economics of development, with emphasis on the issues of poverty, inequality and unemployment. General economic principles, theories and models are examined in the context of less developed economies, and global, institutional and structural implications are drawn.

4011 Economic Planning and Development is the examination of issues in the theory and practice of planning, principles of plan implementation, incentives in a planned economy and models of planning. Alternative approaches to planning are considered, e.g., traditional central planning, indirect financial planning, indicative planning, and economic development planning.

11.10 English Language and Literature

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.

Notes:
1. *One of English 1000, 1050, the former 1100 and one of English 1001, 1051, 1110 are prerequisites for all other courses.*
2. *Students cannot receive credit for more than one of English 1000, 1050, 1080, 1100 or for more than one of 1001, 1051, 1101, 1102, 1103, and 1110.*
3. *A student cannot receive credit for more than 6 credit hours at the first year level. This includes unspecified transfer credits.*
4. *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".*
5. *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".*

11.10.1 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.
Prerequisite: English 1000 or 1050 or the former 1100.

1110 Comprehension, Writing and Prose Style is an introduction to the analysis of prose and to writing for various purposes, including exposition.
Prerequisite: English 1000 or 1050 or 1080 or the former 1100.
Lectures: Three hours per week.
Notes:
1. *Students cannot receive credit for both 1110 and 2010.*
2. *Students cannot receive credit for both English 1020 and 1110, nor for both 1030 and 1110.*

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.
Note: *Students can receive credit for only one of English 2000, 2005, and 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.
Note: *Students can receive credit for only one of English 2001, 2007, and 2111.*

3205 Shakespeare Survey is a study of at least eight plays, two from each dramatic mode: comedy, history, tragedy, and romance.
Prerequisite: Two second-year English courses.
Note: *Students can receive credit for only two of 3200, 3201, 3205 and 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.
Prerequisite: Two second-year English courses.
Note: *Students can receive credit for two of 3200, 3201, 3205, 3206 and 4211.*

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.
Note: *Students cannot receive credit for both English 3395 and 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.
Note: *Students can receive credit for only one of English 4101 and 4105.*

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.
Note: *Students can receive credit for only one of English 4950 and 4990.*

11.10.2 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.
Note: *Students cannot receive credit for both English 2002 and 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.
Note: *Students cannot receive credit for both English 2002 and 2351.*

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.

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.
Note: *This course may not be taken for credit by students who have completed English 3170 or 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.
Note: *Students can receive credit for only one of English 3275, the former 3300, and 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.
Note: *Students can receive credit for only one of English 4301, the former 3301, and 4305.*

4307 Contemporary Canadian Drama is a study of contemporary drama and performance in Canada, focusing on texts representative of Canada's cultural and regional diversity.
Note: *Students cannot receive credit for both English 3156 and 4307.*

4308 20th Century American Drama is a study of American drama and performance from the turn of the century to the present, focusing on the theatre's historic role in the definition, reinforcement and scrutinizing of American mythology.
Note: *Students cannot receive credit for both English 3260 and 4308.*

4317 Elizabethan-Jacobean Drama is a survey of Shakespeare's dramatic rivals and the Elizabethan and Jacobean repertoires. Prerequisites: English 3200 or 3201.
Note: *Students cannot receive credit for both English 3022 and 4317.*

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.
Prerequisites: Permission of the instructor.

11.10.3 Canadian Literature

2146 Canadian Prose after 1949 is a study of the outstanding works of Canadian prose from 1949 to the present.
Prerequisite: Two first-year English courses.
Note: *Students can receive credit for only one of English 2146, English 2150, English 2151 and the former English 3146.*

2155 Newfoundland Literature is a study of Newfoundland literature with emphasis on representative writers since 1949.
Note: *Students cannot receive credit for both English 2155 and 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.

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.
Note: *Students cannot receive credit for both English 3156 and 4307.*

4825-4835 Special Topics in Canadian Literature is a variety of topics to be offered as resources permit.

11.10.4 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.
Note: *Students cannot receive credit for both English 2214 and 2215.*

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.
Lectures: Three hours per week.
Prerequisite: Students must have completed a first-year English sequence to be eligible for English 2242.
Note: *Credit may not be obtained for both English 2242 and English 2811.*

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.
Note: *Students can receive credit for 2805 and only one of 3810 or 3830. (This credit restriction note 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.

3215 20th Century American Literature is study of American poetry and fiction from 1900 to 1960.
Note: *Students can receive credit for only three of English 3215, 4260, 4261, and 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.
Prerequisites: English 2805 or permission of the instructor.
Note: *Students can receive credit for 3810 and only one of 2805 or 3830. (This credit restriction note replaces the note in earlier calendars and is retroactive to September 1, 1993.)*

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.
Prerequisite: permission of the instructor.
Note: *Students can receive credit for only two of English 3900, 3901, and 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.
Prerequisite: Permission of the instructor.

11.10.5 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.
Note: *This course may not be taken for credit by students who have completed 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.

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.

11.11 Environmental Science Courses

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**.

11.11.1 Environmental Biology Courses

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.
Prerequisite: Biology 2010 or equivalent.
Three two-hour laboratory periods per week of integrated practice and theory.
Notes: *1. Credit can be obtained for only one of Environmental Science 3110 or Biology 3041.*
2. 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.

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.
Prerequisites: Biology 2010, 2122, 2600; one of Chemistry 1001 or 1011.
Lectures: Three hours per week.
Laboratory: Three hours per week.

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.
Prerequisites: Biology 2600; and two of Biology 2010, 2122, 2210 or the permission of the instructor and Program Chair.
Three hours of lecture and three hours of laboratory per week.
Note: *Credit can be obtained for only one of Environmental Science 3131 or Biology 3610.*

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 analyze recent scientific literature in Environmental Biology, with selected topics at the community, ecosystem and landscape level, and examine related univariate and multivariate statistical procedures
Prerequisites: Biology 2600, Statistics 2550 (or equivalent), with 6 credit hours from the Environmental Science Core (i.c.).
Lectures: Three hours of lectures plus a three-hour laboratory/discussion group each week.

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.
Prerequisites: At least two of Environmental Science 3110, 3130, and 3131; or permission of instructor.
Recommended: Environmental Science 4132 (formerly Biology 4360)
Three hours of lectures plus a three-hour laboratory/discussion group per week.

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.
Prerequisites: Biology 2600, Statistics 2550, with a minimum of eighty credit hours from Environmental Science Program (or equivalents) and permission of the instructor and Program Chair.
Note: *See APICS Field Course List at www.mun.ca/biology/biologyfcs.html Transfer of credit regulations apply.*

11.11.2 Environmental Chemistry Courses

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.
Prerequisites: Chemistry 1001 or 1031 or 1051 or 2440 or the permission of the instructor and Program Chair.
Lectures: Three hours per week.

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.
Prerequisites: Chemistry 2300 and 2210.
Lectures and Laboratory: Not more than seven hours per week.

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.
Prerequisites: Environmental Science 3210 (or equivalent).
Lectures and Laboratory: Not more than seven hours per week.

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.
Prerequisites: Chemistry 2210, 2401, and Environmental Science 2261 (Envs 2261 may be taken concurrently) or permission of the instructor and Program Chair.
Lectures: Three hours per week.

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 iono-sphere. Atmospheric pollutants. Problems of the "greenhouse" gases. Aerosol chemistry. Wet and dry deposition.
Prerequisites: Chemistry 2300, 2210 or the permission of the instructor and Program Chair.
Lectures: Three hours per week.

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.
Prerequisites: Environmental Science 3211 and one of Chemistry 2400 or 2440 or permission of the instructor and Program Chair.
Lectures and Laboratory: Not more than seven hours per week.

4239 Aquatic Chemistry II is heterogeneous aspects of aquatic chemistry. Surface chemistry of oxides, hydroxides and oxide minerals. Aggregation of colloids and the role of coagulation in natural waters. The oil-water interface. Inorganic and organic complexes in natural waters and problems of specificity.
Prerequisites: Environmental Science 4230.
Lectures and Laboratory: Not more than six hours per week.

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.
Prerequisites: Chemistry 2401 or 2440 or permission of the instructor and Program Chair.
Lectures: Three hours per week.

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.
Prerequisites: Environmental Science 4240, 3261, 4230 or the permission of the instructor and Program Chair.
Lectures: Three hours per week.

11.11.3 Other Environmental Science Courses

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.
Prerequisite: This course is restricted to students with 15 credit hours or more.

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.
Lectures: Three hours per week.
Prerequisite: This course is restricted to students with 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.
Lectures: Three hours per week.
Prerequisite: This course is restricted to students who have completed 30 credit hours or more.

2430 Energy and the Environment is energy, energy conversion, heat transfer, the laws of thermodynamics, nuclear processes and radiation will be treated. Practical problems such as the energy shortage, human influences on climate, resource extraction, nuclear power etc. will be discussed.
Prerequisites: Mathematics 1081 or 1000; Physics 1021 or co-requisite 1051.
Lectures: Three hours per week.

2450 Meteorology as 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.
Prerequisites: Physics 1021 or co-requisite 1051.
Lectures: Three hours per week.

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 or organisms and the influence of the organism in modification of the physical environment will be stressed.
Prerequisite: Environmental Science 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, convention, and radiation. Diffusion, dispersion, and osmosis. Applications to transport of pollutants at the microscopic and macroscopic scale.
Prerequisites: Mathematics 1001. Physics 1020 and 1021 or 1050 and 1051.
Lectures: Three hours per week.

4000 Environmental Science Seminar is current topics in environmental science are reviewed and discussed 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.
Prerequisite: This course is restricted to Environmental Science students who have completed 80 credit hours or more, to include Biology 2600, Statistics 2550 and one of the following courses: Chemistry 2440, 2401, 2210 or 2300.

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.
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.
Prerequisites: Biology 2600, Earth Sciences 1000, one of Chemistry 2210, 2300, 2401, 2440 and 6 credit hours selected from Environmental Science Core. It is recommended that students complete at least 80 credit hours before registering for this course.
Lectures and Laboratory: Not more than six hours per week.

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.
Prerequisites: Biology 2600, one of Chemistry 2210, 2300, 2401, 2440 and 6 credit hours selected from Environmental Science Core. It is recommended that students complete at least 80 credit hours before registering for this course.
Lectures: Three hours per week.

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.
Prerequisite: Environmental Science 3470 or the permission of the instructor and Program Chair.
Lectures: Three hours per week.

4950 Research Project in Environmental Science I 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.
Prerequisite: Permission of Program Chair.
Note: *This project fulfils the Core requirement for a fourth-year individual project in the area of specialization.*

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.
Prerequisites: This course is restricted to Environmental Science students who have been accepted into the Honours option.

4959 Research Project in Environmental Science II is a continuation of Environmental Science 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.
Prerequisite: Environmental Science 4951.
Note: *This course is restricted to honours candidates.*

11.12 Environmental Studies Courses

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

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.
Prerequisites: None.
Lectures: Three hours per week.

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.
Three hours of lectures and three hours of laboratory per week.
Prerequisites: Geography 1000 or Earth Sciences 1001.

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.
Classes: Three hours of lectures and three hours of practicum per week.
Co-requisite: Basic first aid and CPR course.
Note: *Attendance is required.*

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.
Lectures: Three hours of lectures and three hours of practicum per week.
Note: *Attendance is required.*

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 analyzed.
Prerequisite: Economics 2010.
Lectures: Three hours per week.

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.
Lectures: Three hours per week.
Laboratory: Three hours per week.
Prerequisite: Environmental Studies 2000. Introduction to Mapping, Remote Sensing and Geographical Information Systems.

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).
Prerequisites: Environmental Studies 2210 and 2220.
Note: *Attendance is required.*

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.
Lectures: Three hours per week.

4010 Seminar in Environmental Studies is a senior seminar in which selected environmental issues will be examined from several disciplinary perspectives.
Prerequisite: Permission of the Environmental Studies Program Chair.
Seminars: Three hours per week.

4020-4039 Special Topics in Environmental Studies has a range of special topics in Environmental Studies.
Note: *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.
Prerequisite: Permission of the Environmental Studies Program Chair.

11.13 Folklore

Folklore 1000 (or 2000) is the prerequisite for all other courses in Folklore, except 1050, 1060 and those courses cross-listed with other subject areas.

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 "listenings" will emphasize the use of folklore in context, e.g., the proverb in speech and the folksong in childrearing. Students will be urged to analyze the traditions in their own lives through special assignments.
Lectures: Three hours per week.
Note: *A student may not receive credit for both Folklore 1000 and 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.
Note: *There is no prerequisite for this course. However, students should note that they will need to take Folklore 1000 (or 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.
Note: *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.

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.
Prerequisite: Folklore 1000 or 2000, or Anthropology 1031.
Note: *Credit may not be obtained for both Folklore 2300 and the former Folklore 3420.*

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.
Note: *Credit may not be obtained for both Folklore 2401 and the former Folklore 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.
Prerequisite: Folklore 1000 or 2000, or Anthropology 1031.
Note: *Credit may not be obtained for both Folklore 2500 and any of the former Folklore 3400, English 3400, Sociology/Anthropology 3400.*

2600 Regional Folklore is an examination of human-environment relationships as expressed in traditional culture. Emphasis will be placed upon the history of regional folkloristics as well as the theories and methods of studying folklore from a regional perspective.
Prerequisite: Folklore 1000 or 2000 or instructor's permission.

3130 Greek and Roman Mythology (same as 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.
Note: *Credit may not be obtained for both Folklore 3200 and the former Folklore 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.

3601-3620 Special Topic in Folklore

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.
Note: *Credit may not be obtained for Folklore 3920 and either the former Folklore 3030 or Folklore 4475.*

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.
Note: *Credit may not be obtained for both Folklore 4300 and the former Folklore 1020.*

4440 Music and Culture (same as Anthropology 4440 and 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.

11.14 Forestry

1001 Forestry Field Camp I - inactive course.

1010 and 1011 Introduction to Forestry - inactive course.

1900 Developing Proficiency in Communications - inactive course.

2001 Forestry Field Camp II - inactive course.

2221 Physiological Ecology of Forest Vegetation - inactive course.

2222 Forest Climatology - inactive course.

2223 Forest Dynamics and Management - inactive course.

2224 Forest Management Concepts, Human Intervention and the Forest Community - inactive course.

2225 Forest Soils - inactive course.

11.15 French

Note: *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 Department 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.*

1500 Introduction à la langue française, niveau universitaire I
Voir ci-dessus la note 1.
Note: *Les étudiants ne peuvent obtenir de crédit pour Français 1500 et l'un ou l'autre des cours Français 1010 et 1011 (désormais supprimés).*

1500 Introductory University French I
See Note 1 above.
Note: *Students may not receive credit for both 1500 and the former French 1010 or 1011.*

1501 Introduction à la langue française, niveau universitaire II
Voir ci-dessus la note 1.
Note: *Les étudiants ne peuvent obtenir de crédit pour Français 1501 et Français 1050 (désormais supprimé).*

1501 Introductory University French II
See Note 1 above.
Note: *Students may not receive credit for both 1501 and the former French 1050.*

1502 Introduction à la langue française, niveau universitaire III
Préalable: 1501, ou la permission du chef de la division.
Voir ci-dessus la note 1.
Note: *Les étudiants ne peuvent obtenir de crédit pour Français 1502 et Français 1051 (désormais supprimé).*

1502 Introductory University French III
See Note 1 above.
Prerequisite: 1501, or by permission of the head of the division.
Note: *Students may not receive credit for both 1502 and the former French 1051.*

2100 Français intermédiaire I rédaction, grammaire et pratique orale.
Préalable: Français 1502.

2100 Intermediate French I is composition, grammar and practice in oral skills.
Prerequisite: French 1502.

2101 Français intermédiaire II continuation du travail de rédaction, de grammaire et de communication orale.
Préalable: Français 2100.

2101 Intermediate French II is further work in composition, grammar and oral skills.
Prerequisite: French 2100.

2300 Phonétique introduction pratique à la phonétique du français. Emploi des symboles de l'alphabet phonétique, transcription phonétique et phonétique corrective.
Préalable: 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.
Prerequisite: French 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.
Préalables: Français 1502 ou Français 2159, ou équivalent.
Note: *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.*

2601 Reading Skills will explore reading strategies in a variety of texts in French. This course will normally be taught in French.
Prerequisites: French 1502, or French 2159 or equivalent.
Note: *Students who have successfully completed French 2550 may take EITHER French 2601 or French 2602, but not both. Students who have successfully completed French 2551 may take EITHER French 2601 or French 2602, but not both. Students who have completed both French 2550 and 2551 may not take either French 2601 or French 2602.*

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.
Préalables: Français 1502, ou Français 2159 ou équivalent.
Note: *Les étudiants ayant complété Français 2550 peuvent suivre Françias 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.*

2602 Reading Complete Texts will explore reading strategies in a variety of complete texts in French. This course will normally be taught in French.
Prerequisites: French 1502, or French 2159 or equivalent.
Note: *Students who have successfully completed French 2550 may take EITHER French 2601 or French 2602, but not both. Students who have successfully completed French 2551 may take EITHER French 2601 or French 2602, but not both. Students who have completed both French 2550 and 2551 may not take either French 2601 or*

French 2602.

2900 A Survey of Francophone Cultures places emphasis on oral comprehension and expression.
Prerequisite: French 1502 or equivalent. Students who have obtained less than 70% in 1051 are, however, advised to complete French 2100 before attempting this course.
Note: *This course is a prerequisite for 3650-3651-3653. Students who have completed French 2500 may not obtain credit for French 2900.*

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.
Préalables: Français 2101 ou 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.
Prerequisites: French 2101 or 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.
Préalables: Français 2101 ou 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.
Prerequisites: French 2101 or 2160 and at least one other 2000-level course in French.

11.16 Geography

Geography 1000 and 1001 are understood to be equivalents to the former 1010 and 1011.

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.

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.
Note: *Credit may not be obtained for both Geography 1001 and the former Geography 1011.*

2001 Cultural Geography is an examination of the basic themes of cultural Geography.
Prerequisite: Geography 1050, or the former 1011, or 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 systematics study of climate, water, landforms and vegetation.
Three hours of lecture and three hours of laboratory per week.
Prerequisites: Geography 1000 or Geography 1050, or the former Geography 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.
Prerequisite: Geography 1050, or the former 1011, or 1001.

2425 Natural Resources (formerly 3325) 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.
Prerequisite: Geography 1050, or 1011, or 1001.
Note: *Credit may not be obtained for both Geography 2425 and the former 3325.*

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.
Three hours of lecture and three hours of laboratory per week.
Prerequisite: Geography 1050, or the former 1011, or 1001 and at least 9 credit hours from Geography 2001, 2102, 2195, 2302, 2425.
Note: *It is strongly recommended that this course be completed before registration in a 4000-level geography course. Credit may not be obtained for both Geography 3222 and the former Geography 2220, and Statistics 2500 or 2510.*

3900-3909 Special Topics in Geography will have topics to be studied announced.
Prerequisite: Permission of the instructor and the Head of the Department.

11.17 History

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 Sir Wilfred Grenfell College.)
Note: *This course may not be taken for credit by students who have completed History 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 Sir Wilfred Grenfell College.)
Note: *This course may not be taken for credit by students who have completed History 1001. Students in their first year normally take History 1100 and History 1101.*

2035 History of Classical Greece (same as Classics 2035) is 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.
Note: *Students who have completed History/Classics 2030 since 1985-86 or the former History/Classics 3910 may not also receive credit for History/Classics 2035.*

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.
Note: *Students who have completed History/Classics 3920 may not also receive credit for History 2040.*

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.
Note: *Credit may not be obtained for both History 2330 and the former History 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.
Note: *Credit may not be obtained for both History 2330 and the former History 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.
Note: *Credit may not be obtained for both History 2500 and the former History 3700.*

2700 Art History Survey I (same as Visual Arts 2700) is the history of art from pre-historic times to the Renaissance.

2701 Art History Survey II (same as Visual Arts 2701) is the history of art from the Renaissance to the 20th century.

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 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, Île Royale, and Brazil, from the early 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, institutions, 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.

3440 History of the British Empire and Commonwealth since 1815 is the transition from British Empire to Commonwealth of Nations.

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.
Note: *Credit may not be obtained for both History 3490 and the former History 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.

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.

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.

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.

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.
Note: *Credit may not be obtained for both History 3770 and the former History 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 (Sir Wilfred Grenfell College): This course is required for all majors and minors.
Prerequisite: Twelve credit hours in history including History 1100/1101 or permission of the instructor.
Note: *Credit may not be obtained for both History 3840 and the former History 4801.*

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.
Note: *Credit may not be obtained for both History 4231 and 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.
Prerequisites/Co-requisites: Six 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.
Prerequisites/Co-requisites: Six 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.
Prerequisite: 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.
Prerequisite: Students must normally have taken History 3840 and nine other History courses.

11.18 Human Kinetics and Recreation (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.
Lectures: Three hours per week.
Note: *Credit maybe obtained for only 1 of HKR 3555, the former RECR 3555, and the former PHSD 3550.*

3565 Tourism/Commercial Recreation will examine behavioral 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.
Lectures: Three hours per week
Note: *Credit maybe obtained for only 1 of HKR 3565, 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.
Lectures: Three hours per week.
Note: *Credit maybe obtained for only 1 of HKR 4555, 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.
Lectures: Three hours per week.
Note: *Credit maybe obtained for only 1 of HKR 4574, the former RECR 4575, and the former PHSD 4570.*

11.19 Humanities

3000 Perspectives in Humanities will explore the role played by the Humanities in the history of Western Civilization. It will introduce the student to the various interpretations of human experience and activities as provided by the disciplines that belong to Humanities.
Prerequisite: Six credit hours at the 2000-level in any of the Humanities Disciplines.
Note: *Humanities 3000 will be available to all students (subject to the above prerequisite) at Sir Wilfred Grenfell College.*

4000 Concepts and Issues in Humanities is a seminar course in which themes having common interest to the Humanities will be discussed from the perspectives of the various disciplines.
Prerequisite: Humanities 3000 or the permission of the Chair of Humanities.
Note: *Humanities 4000 is open only to students enrolled in the Humanities Program.*

4950 Independent Project in Humanities 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.

11.20 Mathematics and Statistics

REGULATIONS

At most 9 credit hours in Mathematics will be given for courses completed from the following list subject to normal credit restrictions: 1000, 1031, 1050, 1051, 1080, 1081, 1090, 1150, 1151.

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.
Three hours of lecture per week and one and one-half hour laboratory period per week.
Prerequisite: Mathematics 1090 or a combination of placement test and high school Mathematics scores acceptable to the department.
Note: *Effective Winter 2000, the credit restriction between Mathematics 1000 and Mathematics 1080 has been lifted. However, credit cannot be obtained for both Mathematics 1000 and Mathematics 1081.*

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.
Prerequisite: Mathematics 1000 or 1081.
Note: *Credit cannot be obtained for both Mathematics 1001 and either Engineering 1411 or Engineering 2413.*

1050 Finite Mathematics I covers topics which include sets, logic, permutations, combinations, and elementary probability.
Three hours of lecture per week and a one and one-half hour laboratory period per week.
Prerequisite: A combination of placement test and high school mathematics scores acceptable to the department above, or Mathematics 103F.
Notes:
1. *With the exception of those already admitted at the time of registration in this course to a B.Ed. 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.*
2. *Credit cannot be obtained for Mathematics 1050 and the former Mathematics 1150.*

1051 Finite Mathematics II covers topics which include elementary matrices, linear programming, elementary number theory, mathematical systems and geometry.
Three hours of lecture per week and a one and one-half hour laboratory period per week.
Prerequisite: A combination of placement test and high school mathematics scores acceptable to the department (See regulation 1) above), or Mathematics 103F.
Notes:
1. *With the exception of those already admitted at the time of registration in this course to a B.Ed. 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.*
2. *Credit cannot be obtained for Mathematics 1051 and the former Mathematics 1151.*

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.
Three hours of lecture and a three hour laboratory period per week.
Prerequisite: A combination of placement test and high school Mathematics scores acceptable to the department or Mathematics 104F.
Note: *Students will not receive credit for Mathematics 1090 if they have previously received credit or are currently registered for Mathematics 1000, 1001, 1080, or 1081.*

2000 Calculus III is a study of the differential calculus of functions of two variables, an introduction to convergence of infinite sequences and series. In addition to three lectures per week there will be a one and one-half hour problem lab.
Prerequisite: Mathematics 1001.
Note: *Credit cannot be obtained for both Mathematics 2000 and any of Engineering 1411, Engineering 1412, Engineering 2412, Engineering 2413.*

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.
Prerequisite: Mathematics 1000 or 6 credit hours in first year Mathematics courses.
Note: *Credit cannot be obtained for both Mathematics 2050 and Engineering 2402.*

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.
Prerequisite: Mathematics 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.
Prerequisite: Mathematics 1001.

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.
Prerequisite: Mathematics 1001 or 2050.
Note: *Credit cannot be obtained for both Pure Mathematics 2320 and Computer Science 2740.*

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.
Prerequisite: Mathematics 1000 or 6 credit hours in first year courses in Mathematics or registration in at least semester 3 of a B.N. program or permission of the head of department.
Note: *Credit can be obtained for only one of Statistics 2500, 2510, 2550, and Psychology 2900. Normally offered twice a year, including the fall. Statistical computer package will be use in the laboratory, but no prior computing experience is assumed.*

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.
Prerequisite: Mathematics 1000 or 1081.
Note: *Credit can be obtained for only one of Statistics 2500, 2510, 2550, and Psychology 2900. Statistical computer package will be used in the laboratory, but no prior computing experience is assumed.*

3000 Real Analysis I (F and W) is proof techniques, structure of R, sequences, limits, continuity, uniform continuity, differentiation.
Three lecture hours and one laboratory hour per week.
Prerequisite: Mathematics 2000.
Note: *Credit can be obtained for only one of Mathematics 3000 and the discontinued 2001.*

3202 Vector Calculus is 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.
Prerequisite: Mathematics 2000 and 2050.
Note: *Credit cannot be obtained for both Applied Mathematics/Pure Mathematics 3202 and Physics 3810.*

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.
Prerequisite: Mathematics 2000.
Note: *Credit cannot be obtained for both Applied Mathematics/Pure Mathematics 3260 and Engineering 3411.*

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.
Prerequisite: Pure Mathematics 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.
Prerequisite: Pure Mathematics 2320 or Mathematics 2051.

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.
Prerequisite: Pure Mathematics 2320.

3370 Introductory Number Theory is perfect numbers and primes, divisibility, Euclidean algorithm, greatest common divisors, primes and the unique factorization theorem, congruences, cryptography (secrecy systems), Euler-Fermat theorems, power residues, primitive roots, arithmetic functions, Diophantine equations, topics above in the setting of the Gaussian integers.
Prerequisite: Pure Mathematics 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.
One and a half hour tutorial period weekly.
Prerequisite: Mathematics 2000.

11.21 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.

1001 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.

1200 Principles of 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 required course for further courses in Philosophy programs. It is intended for students in first year who have completed one semester of university education).

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.
Note: *Credit may not be obtained for both Philosophy 1600 and the former Philosophy 1001.*

2200 Principles of Philosophy (same as 1200 above but offered to students beyond first year)
Note: *Credit may not be obtained for both 1200 and 2200.*

2210 Logic is an introduction to traditional and modern logic open in any year to all students wishing acquaintance with basic logical skills.
No prerequisite.

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.

2230 Moral Philosophy is the sources and validity of ethical principles which underlie individual and social action.

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.

2702 History of Modern Philosophy is survey of the development of western Philosophy since the seventeenth century.
Note: *Credit may be obtained for only ONE of 3700, 3701, 2702.*

2800-2810 Contemporary Issues is defined by its aim: to provide students with an opportunity to develop the philosophical dimension primarily, in areas of practical concern. Issues dealt with are chiefly contemporary ones: technology, bioethics, leisure, professional ethics, role of education, materialism, human rights and others of the kind.

3400 Political Philosophy is leading philosophical ideas concerning the origin and justification of political institutions.

3600 Philosophy of the Humanities is expression and interpretation in the humanistic disciplines: theology, history, art and literature, language. Philosophical Hermeneutics.

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.

3800 Descartes is a systematic introduction to the works and thought of the "father of modern philosophy".

3840 Hume is a study of the work and influence of Hume on theories of knowledge, metaphysics and moral philosophy.

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.

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.
Note: *Credit may not be obtained for both 3980 and 3940.*

4250 Seminar in Metaphysics and Epistemology

4700 Seminar in Special Authors and Texts

11.22 Physics

1020 Introductory Physics I (F) is a non-calculus based introduction to mechanics.
Prerequisite: Level III Advanced Mathematics or Mathematics 1090. Mathematics 1090 may be taken concurrently. 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.
Lectures: Three hours per week.
Laboratory and/or Tutorial: Up to three hours per week.

1021 Introductory Physics II (W) is a non-calculus based introduction to fluids, wave motion, light, optics, electricity and magnetism.
Prerequisites: Physics 1020 or 1050 and Mathematics 1000. Mathematics 1000 may be taken concurrently.
Lectures: Three hours per week.
Laboratories: Normally six three-hour sessions per semester.
Tutorials: Optional tutorials will be available, on average one hour per week.
Note: *Credit can be obtained for only one of Physics 1021, 1051 and 1061.*

1050 General Physics I: Mechanics (F) is a calculus based introduction to mechanics. The course will emphasize problem solving.
Prerequisite: Mathematics 1000, which may be taken concurrently.
Lectures: Three hours per week.
Laboratories: Normally six three-hour sessions per semester.
Tutorials: Optional tutorials will be available, on average one hour per week.

1051 General Physics II: Oscillations, Waves, Electromagnetism is a calculus based introduction to oscillations, wave motion, physical optics and electromagnetism.
Prerequisites: Physics 1050 or 1020 (with a minimum grade of 65%) and Mathematics 1001. Mathematics 1001 may be taken concurrently.
Lectures: Three hours per week.
Laboratories: Three hours per week.
Note: *Credit can be obtained for only one of Physics 1021, 1051, and 1061.*

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.
Prerequisites: Mathematics 1001, Physics 1050 (or 1020 and 1021), and Physics 1054. Mathematics 1001 and Physics 1051 may be taken concurrently.
Lectures: Three hours per week.
Laboratory: Three hours per week.
Note: *Students may receive credit for only one of Physics 2056 and 2750.*

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 modeling in physics. Topics are introduced through experiments, complementary lectures, and library research of some of the great experiments of physics.
Lectures and laboratories: Six hours per week.
Prerequisites/Co-requisites: Physics 1061 (or 2054), Mathematics 1001, and Mathematics 2050 which may be taken concurrently.
Note: *Students who have completed Physics 1020/1021 will be allowed to register for Physics 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.
Prerequisites: Six credit hours in Mathematics at the first year level.
Lectures: Three hours per week.

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.
Lectures: Three hours per week.
Laboratories: Normally three hours per week.
Prerequisites/Co-requisites: Physics 1051 and Applied Mathematics 3260. Applied Mathematics 3260 may be taken concurrently.

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.
Lectures: three hours per week.
Credit restrictions: Physics 3150, 3151.
Prerequisites/Co-requisites: Physics 2056, 2151 and Mathematics 2000.

Physics 3220 is recommended.

3220 Classical Mechanics I is kinematics and dynamics of a particle. Moving reference systems. Celestial mechanics. Systems of particles.
Prerequisites: Physics 2820 and Applied Mathematics/Pure Mathematics 3260. 3260 may be taken concurrently.
Lectures: Three hours per week.

11.23 Political Science

1000 Introduction to Politics is an introduction to basic concepts in the study of politics, emphasizing the Canadian system of government and its relationship with the Canadian society.

1010 Canadian Political Problems is analysis of the operation of the Canadian political system through close examination of three selected policy problems, such as poverty in Canada, Canadian-United States relations and French Canada.

1020 World Political Problems is an introduction to contemporary issues in world politics. The course will examine selected issues and the manner in which these reflect interests and ideologies and the larger political and economic context in which they occur.

2000 Introduction to Political Thought is a survey of the most important political thinkers and schools of political thought in the Western political tradition. The course will ordinarily cover political thinkers from Plato to Marx and include a selection of contemporary political ideologies.

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 focusing on the differences and similarities among a variety of countries and systems.

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.

2710 Introduction to Canadian Politics I is an introductory survey of the structure, operation, and inter-relationships of the institutions of government at the federal level in Canada. Topics to be examined include the constitution, federalism, parliament, the executive, and the judiciary.
Note: *Credit may not be obtained for either Political Science 2710 or 2711 and the former Political Science 2700.*

2711 Introduction to Canadian Politics II is an introductory survey of the Canadian political process. The course will explore the linkages between Canadian society and political institutions. Topics to be examined include political culture, political parties, the electoral system, voting behaviour, interest groups, the mass media and politics, protest movements, and elites and social classes.
Note: *Credit may not be obtained for either Political Science 2710 or 2711 and the former Political Science 2700.*

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.
Prerequisites: None.
Lectures: Three hours per week.

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.
Prerequisites: None.
Lectures: Three hours per week.

11.24 Psychology

Psychology 1000 and 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.
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 analyze surveys and calculate correlation. Basic ethical principles in conducting research will be introduced. This course includes a weekly laboratory.
Prerequisites: Mathematics 1000 or any two of the following courses: Mathematics 1090, 1050, 1051.
Note: *Credit may not be obtained for Psychology 2925 and any of the following: Psychology 2900, Statistics 2500, Statistics 2510, Statistics 2550.*

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 analyze a report of an experiment, how to use and interpret a statistical package to analyze experimental data, and how to conduct literature searches.
This course includes a weekly laboratory.
Prerequisite: Psychology 2925 or equivalent.
Note: *Credit may not be obtained for Psychology 2950 and any of the following: Psychology 2901, Statistics 2501, Statistics 2560.*

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.
This course includes a weekly laboratory.
Prerequisite: Psychology 2950 or equivalent.
Note: *Credit may not be obtained for Psychology 3950 and any of the following: Psychology 3900, Statistics 3520, the former Psychology 3520.*

11.24.1 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.
Note: *Credit may not be obtained for Psychology 2025 and either of Psychology 2010 or 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.
Note: *Credit may not be obtained for Psychology 2125 and either of Psychology 2100 or 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.
Note: *Credit may not be obtained for Psychology 2225 and either of Psychology 2240 or 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.
Note: *Credit may not be obtained for Psychology 2425 and either of Psychology 2440 or 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.
Note: *Credit may not be obtained for both Psychology 2625 and any of the following: Psychology 2610, 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.
Note: *Credit may not be obtained for Psychology 2825 and either of Psychology 2810 or 2850.*

11.24.2 Contemporary Issues Courses

3025 Contemporary Issues in Developmental Psychology
Prerequisites: Psychology 2925 and Psychology 2025.

3125 Contemporary Issues in Social Psychology
Prerequisites: Psychology 2925 and Psychology 2125.

3225 Contemporary Issues in Learning
Prerequisites: Psychology 2925 and Psychology 2225.

3325 Contemporary Issues in Sensation and Perception
Prerequisites: Psychology 2925 and Psychology 2425 or 2825.

3425 Contemporary Issues in Memory and Cognition
Prerequisites: Psychology 2925 and Psychology 2425.

3525 Contemporary Issues in Emotion
Prerequisites: Psychology 2925 and any Survey Course in Psychology from the Sir Wilfred Grenfell College Psychology Program.

3625 Contemporary Issues in Personality
Prerequisites: Psychology 2925 and Psychology 2625.

3626 Contemporary Issues in Abnormal Psychology
Prerequisites: Psychology 2925 and Psychology 2625.
Note: *Credit may not be obtained for both Psychology 3626 and any of the following Psychology 3640, Psychology 3650, and the former Psychology 3600.*

3627 Contemporary Issues in Psychotherapy
Prerequisites: Psychology 2925 and Psychology 2625.

3628 Contemporary Issues in Psychological Testing and Measurement
Prerequisites: Psychology 2950 and any one of Psychology 2025, 2125, 2425, 2625.

3725 Contemporary Issues in Animal Behaviour
Prerequisites: Psychology 2925 and Psychology 2825 or Psychology 2225.

3825 Contemporary Issues in Physiological Psychology
Prerequisites: Psychology 2925 and Psychology 2825.

11.24.3 Senior Courses

4910 Systems of Psychology is a study of paradigms and explanations in contemporary psychology in the context of their historical antecedents.
Prerequisites: Seventy-eight credit hours in University courses including (a) 6 credit hours in Psychology laboratory courses from Clause 1(b) of the Requirements for a Major in Psychology or (b) Psychology 3425 or ©) 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.
Prerequisites: Thirty credit hours in Psychology including 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.
Prerequisites: Thirty credit hours in Psychology including 3950 (or permission of the Chair of Psychology).
Note: *Credit may not be obtained for both Psychology 4950 and Psychology 4951.*

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.
Prerequisites: Thirty credit hours in Psychology including 3950 (or permission of the Chair of Psychology).
Notes:
1. *Credit may not be obtained for both Psychology 4950 and 4951.*
2. *Psychology 4951 is limited to Honours candidates.*

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.
Prerequisite: Psychology 4951 (or the permission of the Chair of Psychology).
Note: *Psychology 4959 is limited to Honours candidates.*

11.25 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 Division.

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.

1000 The Religions of the World is an introduction to the basic beliefs and practices of the world's great religions.
Note: *Credit may not be obtained for both Religious Studies 1000 and the former Religious Studies 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 Sociology/Anthropology 2350) is psychological, anthropological, and sociological approaches to the nature of religion. Comparative study of religious institutions and beliefs, calendrical feasts and solemnities, the nature of sacrifice and the sacred, religious roles and hierarchies, ritual innovation and revitalization.

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.
Note: *Credit may not be obtained for both Religious Studies 2400 and the former Religious Studies 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.
Note: *Credit may not be obtained for both Religious Studies 2410 and the former Religious Studies 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.
Note: *Students who have successfully completed both Religious Studies 2600 and Religious Studies 2601 may not receive credit for 2610.*

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.
Note: *Students may not receive credit for Religious Studies/ Classics 3010 and the former Religious Studies/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.
Note: *Students may not receive credit for Religious Studies/ Classics 3020 and the former Religious Studies/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.
Note: *Credit may not be obtained for both Religious Studies 3310 and the former Religious Studies 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.

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.
Prerequisites: Three credit hours in Religious Studies beyond the first year level or departmental permission.
Lectures: Three hours per week.

11.26 Science

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.
Prerequisites: at least 45 credit hours.
Note: *This course 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; behavioral biology: genetic determinism versus environmentalism; artificial intelligence. The paradoxes of the quantum world; the scientific method; science and pseudoscience.
Prerequisite: completion of at least 45 credit hours.
Note: *This course may not be used towards fulfilment of the 78 Science credit hours required for the Bachelor of Science Degree.*

4000 Senior Science Seminar are current topics in science reviewed and discussed in a seminar format. Seminars will be presented by faculty, students and guest speakers.
Prerequisites/Co-requisites: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more.
Note: *This will be a designated Writing Course.*

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.
Prerequisites/Co-requisites: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more.
Note: *This will be a designated Writing Course.*

4951 Honours Project I is under the guidance of a faculty supervisor, the student will prepare a Project proposal, and carry out a comprehensive bibliographical review, with the aim of producing a well-annotated Bibliography.
Prerequisites/Co-requisites: Permission of the Program Chair. This course is restricted to students in the General Science program who have completed 80 credit hours or more.
Note: *This will be a designated Writing Course.*

4959 Honours Project II is a continuation of Science 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.
Prerequisites/Co-requisites: Science 4951 and permission of the Program Chair.
Note: *This will be a designated Writing Course.*

11.27 Social/Cultural Studies Courses

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.
Prerequisites: This course is restricted to Social/Cultural Studies students who have completed 90 credit hours or more.

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.
Prerequisites: This course is restricted to Social and Cultural Studies students who have completed 90 credit hours or more.

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.
Prerequisite: Social/Cultural Studies 4000.

11.28 Sociology

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.

Sociology 1000 or 2000 are prerequisites for all further Sociology courses except 2250 and those cross-listed with Anthropology. Credit is not given for both Sociology 1000 and 2000. Before taking 3000-level courses, students should have taken at least 9 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.

2000 Introduction to Sociology (prerequisite to most departmental courses) is an introduction to the concepts, principles, and topics of Sociology. Credit is not given for both Sociology 1000 and 2000. (Restricted primarily to first-year students.)

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.

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.

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.

2610 Socialization is an examination of the social and social psychological processes by which individuals become members of human groups (formerly Sociology 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.
Prerequisite: Sociology 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, ©) 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.
Prerequisite: Sociology 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.

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.

11.29 Theatre

1000 and 1001 Introduction to the History of Theatre I and II is a historical survey 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 analyzed in terms of period philosophical, social, cultural, political and religious contexts. These courses are open to non-theatre students.
Lectures: Three hours per week.

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 all theatre students regardless of their specific areas of interest. This course is open to non-theatre students.
Studio: Six hours 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 all theatre students regardless of their specific areas of interest. This course is open to non-theatre students.
Studio: Six hours 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. This course is restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 1000, Theatre 1010 and 1020.

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. Practical projects will be related to departmental productions. This course is restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 1000, Theatre 1010 and 1020.

2010 and 2011 Acting II (same as former 201A/B) is a second level courses for Acting Majors. Emphasis 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. These courses are restricted to Acting Majors.
Studio: Six hours per week.
Prerequisites: Theatre 1001, Theatre 1110. Theatre 2010 is a prerequisite for Theatre 2011.

2020 and 2021 Stagecraft II (same as former 202A/B) are second level courses for the Stagecraft Major. Emphasis on the fundamentals of drafting, stage management, model-making, props building, and painting. These courses are restricted to Stagecraft Majors.
Studio: Six hours per week.
Prerequisites: Theatre 1001, Theatre 1120. Theatre 2020 is a prerequisite to Theatre 2021.

2080 and 2081 Production Acting (4 cr. hrs. each) is in each case either a semester's worth of work in one of the major productions, in a supporting capacity (i.e. a supporting role) or a significant role in a studio production. These courses are restricted to Theatre Majors.
Studio: Twelve hours per week.
Prerequisite: Theatre 1110.

2090 and 2091 Production Stagecraft (4 cr. hrs. each) is in each case either a semester's worth of work in a major production in a supporting capacity (i.e. assistant stage manager, wardrobe assistant, etc.) Or in a studio production in a major capacity. These courses are restricted to Theatre Majors.
Studio: Twelve hours per week.
Prerequisite: Theatre 1120.

3010 and 3011 Acting III (same as former 301A/B) is an intermediate level courses for the Acting Major. Continued emphasis on speech, voice production, text analysis, etc. Intermediate level scene study on material including non-realistic plays. These courses are restricted to Acting Majors.
Studio: Six hours per week.
Prerequisites: Theatre 2010 and 2011, Theatre 2080 and 2081.

3020 and 3021 Stagecraft III (same as former 302A/B) is an intermediate course for Stagecraft Majors. Continued emphasis on carpentry, painting, lighting, sound, wardrobe, stage management, etc. These courses are restricted to Stagecraft Majors.
Studio: Six hours per week.
Prerequisites: Theatre 2020 and 2021, Theatre 2090 and 2091.

3060 and 3061 Master Classes I and II (Stagecraft) is In each case a semester's worth of work for stagecraft students with a guest artist in a particular area of specialization. These courses are restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 2020 and 2021. Theatre 3060 is a prerequisite for Theatre 3061.

3070 and 3071 Master Classes I and II (Acting) is in each case a semester's worth of work for acting students with a guest artist in a particular area of specialization. These courses are restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 2010 and 2011. Theatre 3070 is a prerequisite for Theatre 3071.

3080 and 3081 Production-Acting (4 cr. hrs. each) is in each case work on a major production in a significant capacity (i.e. a principal role) These courses are restricted to Theatre Majors.
Studio: Sixteen hours per week.
Prerequisites: Theatre 2010 and 2011, Theatre 2080 and 2081.

3090 and 3091 Production-Stagecraft (4 cr. hrs. each) is in each case work on a major production in a significant capacity (i.e. stage manager, crew chief, head of props, etc.). These courses are restricted to Theatre Majors.
Studio: Sixteen hours per week.
Prerequisites: Theatre 2020 and 2021, Theatre 2090 and 2091.

3605 Music Theatre Workshop (6 cr. hrs.) (same as Music 3605) is an advanced performance course for singers and actors. It offers students the opportunity to experience the performance elements inherent in a professional level music theatre production through an intensive rehearsal period, a performance run and an extended tour. The goal of this course is to develop the students' skills in preparing a production for public performance at a professional level. (Offered in intensive intersession format only).
Prerequisite: By audition.

4001 Theatre Institute at Harlow (10 credit hours) is a full semester's work, utilizing both the Harlow Campus and Sir Wilfred Grenfell College, 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.
Prerequisites: Theatre 4010 or 4011, 4060 or 4070, 4080 or 4090, 4030, 4040.

4010 Acting IV (same as former 401A) is an advanced course for acting majors. Concentration on advanced scene study on texts illustrating period styles or genres of plays. This course will be directly related to performance work in Theatre 4080. Restricted to acting majors.
Studio: Six hours per week.
Prerequisites: Theatre 3010 and 3011, Theatre 3080 and 3081.

4020 Stagecraft IV (same as former 402A) is advanced courses for Stagecraft Majors with individual concentration on specific technical skills. Restricted to Stagecraft Majors.
Studio: Six hours per week.
Prerequisites: Theatre 3020 and 3021, Theatre 3090 and 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 aesthetical perspective. A lecture/seminar course involving script analysis to examine the interpretive and imagistic processes of directors and designers.
Lecture/Seminar: Three hours per week.
Prerequisites: Theatre 3010 and 3011 or Theatre 3020 and 3021, Visual Arts 2700 and 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. Restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 3010 and 3011 or Theatre 3020 and 3021.

4060 Master Class III (Stagecraft) is advanced work with a guest artist in a particular area of specialization. Restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 3060 and 3061.

4070 Master Class III (Acting) is advanced work with a guest artist in a particular area of specialization. Restricted to Theatre Majors.
Studio: Six hours per week.
Prerequisites: Theatre 3070 and 3071.

4080 Production-Acting (4 cr. hrs.) is work on a major production in a significant and leading capacity (i.e. leading or principal role). Restricted to Theatre majors.
Studio: Twenty hours per week.
Prerequisites: Theatre 3010 and 3011, Theatre 3080 and 3081.

4090 Production-Stagecraft (4 cr. hrs.) is work on a major production in a significant and leading capacity (i.e. designer, stage manager, technical director, etc.). Restricted to Theatre Majors.
Studio: Twenty hours per week.
Prerequisites: Theatre 3020 and 3021, Theatre 3090 and 3091.

11.30 Tourism

11.30.1 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.
Note: *Credit may not be obtained for both Tourism 1000 and 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.

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.
Prerequisite: Tourism 1000 and 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.
Prerequisite: Tourism 1000 and Tourism 1100.
Note: *Credit may not be obtained for Tourism 2201 and Business 1201 or HKR 3565.*

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.
Prerequisites: Tourism 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.
Prerequisites: Statistics course, Economics 2010 and 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.
Prerequisites: Tourism 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 travelers, the promotion of culture and territories, and the globalization of tourism.
Prerequisite: 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).
Prerequisite: 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 focusing 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.
Prerequisites: Tourism 1000 and Tourism 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.
Prerequisite: 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.

11.30.2 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.
Prerequisites: Tourism 1000 and Tourism 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.
Prerequisites: Tourism 1000 and Tourism 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.
Prerequisites: Tourism 1000 and Tourism 1100.

3210 Interpretation of Natural Resources covers the principles and practice of interpretation as a component of ecological resource recreation. This course would introduce the student to the practice of interpretation. Concentration would be on interpretation of natural resources (e.g., rocks, fossils, plants, animals, weather, geomorphology, etc.).
Prerequisites: Tourism 1000 and Tourism 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.

3211 Interpretation of Cultural Resources covers the principles and practice of interpretation of cultural heritage resource recreation. The techniques include written and oral interpretation materials, as well as the "living interpretations" used in historical and cultural settings. Concentration would be on interpretation of cultural resources (e.g., artifacts of previous indigenous cultures, etc.).
Prerequisites: Tourism 1000 and Tourism 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.

3220 Conservation Planning examines attitudes, values and approaches around conservation, preservation, utility, stewardship and management of natural and cultural artifacts. Ecological and Cultural Heritage conservation programs, strategies, policies and legislation are also surveyed.
Prerequisites: Tourism 1000 and Tourism 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.
Note: *Credit may not be obtained for both Tourism 3220 and HKR 3555.*

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.
Prerequisites: Tourism 1000 and Tourism 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.
Note: *Credit may not be obtained for both Tourism 3230 and HKR 3555.*

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.
Prerequisites: Tourism 1000 and Tourism 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 and 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).
Prerequisite: 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.

11.31 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.

11.32 Visual Arts

11.32.1 1st Year

100A/B 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 problems. Attendance required.
Studio: Six hours per week.
Co-requisites: Visual Arts 110A/B, 120A/B.

110A/B Two Dimensional Design and Media is principles of color theory and color mixing. Painting techniques in various media. Emphasis on rendering of form in space and organization of two dimensional surface through studio problems. Attendance Required.
Studio: Six hours per week.
Co-requisites: Visual Arts 100A/B, 120A/B.

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. Attendance is required.
Studio and lecture: Three hours per week.
Note: *Students are NOT expected to have previous drawing or art experience.*

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. Attendance required.
Studio and lecture: Three hours per week.
Note: *Students are NOT expected to have previous art experience.*

120A/B Three Dimensional Design and Media is three dimensional form and spatial organization. Exploration of sculptural media through studio problems. Attendance required.
Studio: Six hours per week.
Co-requisites: Visual Arts 100A/B, 110A/B.

11.32.2 2nd Year

2000 Second Year Drawing I is development of drawing skills with emphasis on the human figure and studio problems. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2001 Second Year Drawing II is a continuation of the work begun in Visual Arts 2000. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2000.

2100 Introductory Painting I is painting media applied to problems of spatial structure, light, color, volume and surface relationships.
Studio: Six hours per week. Attendance required.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2101 Introductory Painting II is a continuation of the work begun in Visual Arts 2100. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2100.

2200 Introductory Sculpture I is development of accurate and expressive control of three-dimensional media. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2201 Introductory Sculpture II is a continuation of the work begun in Visual Arts 2200. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 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. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2311 Introductory Printmaking: Intaglio is an intensive exploration of Intaglio Printmaking concepts and techniques. Also includes monoprint and collograph experience. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2320 Introductory Printmaking: Serigraphy is an intensive exploration of Serigraphic Printmaking concepts and techniques. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2321 Introductory Printmaking: Lithography is an intensive exploration of Lithographic Printmaking concepts and techniques. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2400 Introductory Photography I is basic techniques of black and white photography including negative exposure, film development and print production. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2401 Introductory Photography II is a continuation of the work begun in Visual Arts 2400. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 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. Attendance required.
Prerequisite: Visual Arts 100A/B, 110A/B, and 120A/B.

2601 Introductory Digital Imaging II is a continuation of the work begun in Visual Arts 2600. Students will learn to create original artworks directly on the computer and how to incorporate images from other sources using a color scanner. The ethics, aesthetics and theory of digital image-making for artists will also be addressed. Attendance required.
Prerequisite: Visual Arts 2600.

11.32.3 3rd Year

3000 Intermediate Drawing I is further development of drawing skills. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2001.

3001 Intermediate Drawing II is a continuation of the work begun in Visual Arts 3000. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 3000.

3100 Intermediate Painting I is continued development of painting stressing personal expression and critical awareness. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2101.

3101 Intermediate Painting II is a continuation of Visual Arts 3100. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 3100.

3200 Intermediate Sculpture I is continued development of skills in sculpture media. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2201.

3201 Intermediate Sculpture II is a continuation of Visual Arts 3200. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 3200.

3310 Intermediate Relief and/or Intaglio I is projects in Printmaking. Relief and/or Intaglio. In consultation with the instructor students will select the medium or combination or media in which to work. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2311.

3311 Intermediate Relief and/or Intaglio II is projects in Printmaking. Relief and/or Intaglio. In consultation with the instructor students will select the medium or combination or media in which to work. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 3310.

3320 Intermediate Serigraphy and/or Lithography I is projects in Printmaking. Serigraphy and/or Lithography. In consultation with the instructor students will select the medium or combination or media in which to work. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2321.

3321 Intermediate Serigraphy and/or Lithography II is projects in Printmaking. Serigraphy and/or Lithography. In consultation with the instructor students will select the medium or combination or media in which to work. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 3320.

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.
Prerequisite: Six credit hours from any of the following Visual Arts courses: 2310, 2311, 2320, or 2321, and permission of the Program Chair.

3400 Intermediate Photography I is critical evaluation of photographs. Continued development of photographic skills, use of color and larger camera formats. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 2401.

3401 Intermediate Photography II is a continuation of Visual Arts 3400. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 3400.

3500 Multi-media I is projects in combined media. Attendance required.
Studio: Six hours per week.
Prerequisite: Permission of the Department.

3501 Multi-media II is a continuation of Visual Arts 3500. Attendance required.
Studio: Six hours per week.
Prerequisite: Visual Arts 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. Attendance required.
Prerequisite: Visual Arts 2601.

3511 Digital Multi-Media II is a continuation of the work begun in Visual Arts 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 color 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. Attendance required.
Prerequisite: Visual Arts 3510.

11.32.4 4th Year

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. Students are required to present the written component and body of work at a term end critique with all members of faculty. Attendance required.
Prerequisites: 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 a related written artist statement and final description of the work. Students are required to present the written component and body of work at a term end critique with all members of the faculty. Attendance required.
Prerequisite: Visual Arts 4950.

11.32.5 Art History Courses

Notes:
1. *The prerequisite for all 3000-level courses is Visual Arts 2701 or History 1101 or permission of the Chair, Visual Arts.*
2. *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.
Lectures: Three hours per week.

2701 Art History Survey II (same as History 2701) is the history of art from the Renaissance to the twentieth century.
Lectures: Three hours per week.

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.

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.

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.

3620 Philosophy of Art (same as Philosophy 3620) is an introduction to aesthetics; applications in Visual Arts, music and drama.

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.
Prerequisite: 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.
Prerequisites/Co-requisites: Six 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.
Prerequisites/Co-requisites: Six credit hours in art history or permission of the chair of the Visual Arts Program.

4740 Current Issues in Art is studies in Contemporary Art.
Lectures: Three hours per week.

4741 Art Criticism is theories of Art Criticism.
Lectures: Three hours per week.

11.33 Women's Studies

2000 An Interdisciplinary Introduction to Women's Studies is an interdisciplinary introduction to the major concepts, issues and debates of Women's Studies.

2001 Women and Science 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.
Three hours of lectures per week.

3000-3010 Special Topics in Women's Studies has a range of special topics in Women's Studies.

4000 Seminar in Women's Studies is an interdisciplinary seminar designed to focus on women's issues, and on theories and methodologies of women's studies.
Three-hour seminar per week.
Prerequisites: Students must normally have completed Women's Studies 2000 and 15 credit hours in other Women's Studies Program courses before taking Women's Studies 4000. In exceptional cases, students without these prerequisites may be accepted into the course, with the approval of the Instructor of WSTD 4000 and the Program Co-ordinator.