FYI

FIRST YEAR INFORMATION
2020-2021

St. John’s Campus

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Grenfell Campus

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March 2020

43rd Edition
WELCOME

Congratulations on making the important decision to advance your education at Memorial University. It is an exciting time. As you embark on this new journey, the Academic Advising Centre at the St. John’s campus and the Office of the Registrar at the Grenfell Campus are here to help ease your transition to university. University is all about learning, and learning how to be a successful university student is a significant part of this process. Our offices collaborate with many other student support units at the university to ensure you get the help you need.

This First Year Information (FYI) is created for the new Memorial University student. It is an invaluable resource that answers many questions you may have as you prepare for your first year at university. Keep it accessible throughout your first year so that you will know where to go to address any questions and/or concerns that you may have. As you begin to read through this FYI you may encounter some unfamiliar terminology; refer to the glossary for further explanation.

As you will soon discover, the semesters at university go by very quickly. You will also realize that the instructors’ expectations are very different than those of your high school teachers. As a result, your own expectations of yourself will begin to change. Once classes begin, you need to make your studies a priority. We encourage you to:

- attend classes regularly
- start studying as soon as classes begin and keep up with assigned readings
- plan and organize a study schedule
- become familiar with the library and other resource centres
- get to know your instructors early in the semester
- read your @mun.ca email regularly – this is how the university will communicate with you
- ask for help when you need it.

Memorial University offers an incredible selection of programs and courses. Your interests may very well broaden as a result of exposure to new people and ideas. Embrace the opportunity to learn new things and make educated choices. Obtain accurate information and make the most of this wonderful learning opportunity. Good luck. We look forward to meeting you soon!
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1. SET UP MUN LOGIN
   MUN Login is your gateway to access online services like email, Self-Service, Online Learning and more. Visit www.mun.ca/student-setup to get started.

2. SOAR
   Studying in St. John’s? Get acquainted with campus by attending Summer Orientation for Academic Readiness (SOAR) on July 9. Learn more at www.mun.ca/soar

3. FALL COURSE REGISTRATION
   Learn how to register for courses at www.mun.ca/regoff/registration/guide/. Register for Orientation 1000 to attend Fall Welcome 2020. If you’re taking a lab science course, register for Science 1807 and 1808.

4. ACADEMIC INTEGRITY
   When you register for your first-semester courses, you’ll be automatically enrolled in Integrity 1000, which you must pass before you can register for your next semester. Read more at www.mun.ca/undergrad/fyi/integrity.php

5. MATH PLACEMENT TEST (MPT)
   Check to see if you need to write the Math Placement Test (MPT): www.mun.ca/undergrad/fyi/non-credit-placement.php

6. CALCULUS PLACEMENT TEST (CPT)
   NL students who completed Math 3208 (Calculus) in high school should write the Calculus Placement Test (CPT). To write the CPT on June 13 be sure to register by March 31 at www.mun.ca/math/cpt

7. ADVICE
   If you have any questions about course selection, contact an academic advisor:

   ST. JOHN’S CAMPUS
   Academic Advising Centre
   Science Building, SN 4053
   709 864 8801 advice@mun.ca

   GRENFELL CAMPUS
   Office of the Registrar
   Arts and Science Building, AS 277
   709 637 6298 info@grenfell.mun.ca
## IMPORTANT DATES

The SIGNIFICANT DATES FOR 2020-2021 listed below was approved on Tuesday, October 15, 2019. While every reasonable effort has been made to ensure the accuracy of this document, the completed University Diary published in the 2020-2021 Memorial University of Newfoundland Calendar will be considered final and accurate.

### SIGNIFICANT DATES FOR 2020-2021

#### Fall Semester 2020

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Lectures begin</td>
<td>September 9, Wednesday</td>
</tr>
<tr>
<td>Thanksgiving holiday;</td>
<td>October 12 – October 13, Monday &amp; Tuesday</td>
</tr>
<tr>
<td>Fall semester break begins</td>
<td>October 14, Wednesday</td>
</tr>
<tr>
<td>Lectures resume</td>
<td>October 15, Thursday</td>
</tr>
<tr>
<td>Lectures will follow Tuesday schedule</td>
<td>October 16, Friday</td>
</tr>
<tr>
<td>Remembrance Day holiday, no classes</td>
<td>November 11, Wednesday</td>
</tr>
<tr>
<td>Lectures end</td>
<td>December 4, Friday</td>
</tr>
<tr>
<td>Examinations begin</td>
<td>December 9, Wednesday</td>
</tr>
<tr>
<td>Examinations end</td>
<td>December 18, Friday</td>
</tr>
</tbody>
</table>

#### Winter Semester 2021

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lectures begin</td>
<td>January 6, Wednesday</td>
</tr>
<tr>
<td>Winter semester break begins</td>
<td>February 22 - February 26, Monday – Friday</td>
</tr>
<tr>
<td>Lectures resume</td>
<td>March 1, Monday</td>
</tr>
<tr>
<td>Good Friday, no classes</td>
<td>April 2, Friday</td>
</tr>
<tr>
<td>Lectures end</td>
<td>April 9, Friday</td>
</tr>
<tr>
<td>Examinations begin</td>
<td>April 14, Wednesday</td>
</tr>
<tr>
<td>Examinations end</td>
<td>April 23, Friday</td>
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#### Spring Semester 2021

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Lectures begin for 14-week Spring semester and Intersession</td>
<td>May 10, Monday</td>
</tr>
<tr>
<td>Lectures end for Intersession</td>
<td>June 18, Friday</td>
</tr>
<tr>
<td>Examinations begin for Intersession</td>
<td>June 21, Monday</td>
</tr>
<tr>
<td>Spring semester break begins</td>
<td>June 21 - June 23, Monday – Wednesday</td>
</tr>
<tr>
<td>Examination end for Intersession</td>
<td>June 23, Wednesday</td>
</tr>
<tr>
<td>Lectures resume for Spring semester</td>
<td>June 24, Thursday</td>
</tr>
<tr>
<td>Lectures begin for Summer session</td>
<td>June 28, Monday</td>
</tr>
<tr>
<td>July 1 holiday, no lectures</td>
<td>July 1, Thursday</td>
</tr>
<tr>
<td>Lectures end for Spring semester</td>
<td>August 6, Friday</td>
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<tr>
<td>Lectures end for Summer session</td>
<td>August 7, Saturday</td>
</tr>
<tr>
<td>Lectures will follow Thursday schedule</td>
<td>August 9, Monday</td>
</tr>
<tr>
<td>Examinations begin for Spring semester and Summer Session</td>
<td>August 11, Wednesday</td>
</tr>
<tr>
<td>Examinations end for Summer session</td>
<td>August 14, Saturday</td>
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ADMISSION INFORMATION

Admission Application

Application for admission to Memorial University is made using the online General Undergraduate Application for Admission/Readmission. With the exception of Canadian transfer applicants from outside Newfoundland and Labrador who are seeking admission to programs with selective or limited admission, all applications are reviewed for general admission eligibility by the Admissions Office in the Office of the Registrar. Applications for admission to programs with selective or limited admission are forwarded to the respective academic units by the Admissions Office once they are ready for review.

Application deadlines vary by program.

Applicants are encouraged to submit their application well in advance of the posted deadlines. If applying from outside Canada, applicants who need a study permit should consult with the nearest Visa Application Centre (VAC) regarding the initial study permit application process. Please ensure sufficient time (at least 12 weeks before the start of the semester) to process your study permit application.

Admission

All applicants who meet Memorial University’s general undergraduate admission requirements are offered general admission. This may be an early provisional offer if the applicant is attending high school or another post-secondary institution at the time of application. If an early offer is given, admission eligibility is reviewed and confirmed once the applicant’s final official transcript is received. Some faculties or schools that offer direct entry to the first year of a program may have additional admission requirements. Admission to any program is subject to meeting the University’s minimum general admission requirements.

A complete outline of application and admission requirements for applicants completing high school in Canada can be found online.
Applicants from other countries and students who have completed an internationally-recognized curriculum (e.g. International Baccalaureate (IB)) should refer to the general admission requirements by curriculum or country as listed online.

**Special admission**

Where circumstances warrant, applicants who are new to post-secondary studies and who are ineligible for admission to Memorial University under one of the high school or equivalent categories may request admission under the Special Admission category. These requests are considered by the University Committee on Admissions.

Students attending the St. John’s campus may contact admissions@mun.ca for additional information.

Students applying to Grenfell Campus should contact: info@grenfell.mun.ca.

**Transfer Credits for Enriched High School Courses**

Memorial University recognizes, for transfer credit, certain high school courses completed through the Advanced Placement (AP) Program offered by the College Board and the International Baccalaureate (IB) organization. Credit for individual IB courses does not require completion of the IB Diploma. Minimum scores apply. See the [International Baccalaureate (IB) Policy](#) and [Advanced Placement (AP) Policy](#) charts for more information.

Newfoundland and Labrador high school students who have completed the course Earth Systems 3209 may be eligible to receive credit (three credit hours) in the undergraduate course Earth Sciences 1000. This is subject to meeting a minimum grade in Earth Systems 3209 and submission of a [Challenge for Credit application](#) with the Office of the Registrar upon completion of the public examination for this course.

Further advice on transfer credits at Memorial is available from the Admissions Office at transfer.credit@mun.ca.
Communication regarding applications

The Office of the Registrar contacts applicants by email to acknowledge receipt of their application and provide preliminary information. Applicants can monitor the status of submitted applications online to confirm required documents and if/when they have been received. The email address supplied on the application for admission may be used to correspond with students regarding their application status. However, correspondence regarding faculty or school applications, registration for courses and other enrolment advice is sent to all new and continuing students through their @mun.ca email account. It is the applicant’s responsibility to monitor both accounts regularly and to ensure that messages received from @mun.ca accounts are not filtered into junk mail folders.

General admission decisions are made and communicated by the Admissions Office on behalf of the Registrar.

Applicants for admission to programs with limited or selective admission receive communication concerning their admission status directly from the academic unit. The timing of a faculty or school decision will depend upon the status of the program application and the academic unit’s schedule and practices regarding admission of students.

English Language Proficiency Requirements

All applicants to Memorial University must meet our English language requirement. There are four different ways to meet this requirement.

If an applicant does not meet the requirement, they may be interested in one of our English as a Second Language programs:

St. John’s campus: www.mun.ca/esl/programs/

Grenfell Campus: www.grenfell.mun.ca/academics-and-research/Pages/esl.aspx
SUMMER BRIDGING PROGRAM

Dates: August 17 - 28, 2020

Memorial University's Summer Bridging Program is offered at Grenfell Campus in Corner Brook. Any Newfoundland and Labrador student who misses the MUN admission requirements by less than five percent - that is, a final admission average between 65 and 69.9% - is eligible to apply. Students who successfully complete the program will be admitted to Memorial University in September at the campus of their choice. The two week program will focus on academic and study skills strategies that will increase a student’s chance of success at university.

Application Deadline: Noon, August 12, 2020

Curriculum

The Summer Bridging Program will provide students with instruction in academic skills that will increase their chances for success in university-level courses, including:

- instruction and practice in the critical reading skills needed for reading university level textbooks
- instruction and practice in the writing skills needed to produce well-formulated essays and research papers
- instruction and practice in basic academic skills such as note-taking, time management and preparation for examinations
- an introduction to the nature of the university, what the university expects of students, and the programs and resources available at the university.

In addition to classroom instruction, there will be assignments and a final examination. Students must achieve an overall mark of 50% to pass the Summer Bridge course.

The total cost for the Summer Bridging Program is $600. Residence accommodations are available. Visit our website for more information:

www.grenfell.mun.ca/current-students/Pages/learning/summer-bridging-program.aspx
REGISTRATION & FINAL EXAMS

Undergraduate registration for each semester begins approximately two months prior to the start of the respective semester. The final exam schedule for the current semester is normally published two to three weeks after the end of the registration.

How to register

Before you register for courses, review the information on registration times and priority system, selecting courses, steps to register, common registration issues, and waitlists.

Course offerings

Course offerings for upcoming semesters/sessions are posted online and in Memorial Self-Service approximately one month before the start of registration for the semester.

Changes to your registration

After you have completed your initial registration, you may make changes to your registration through the add and drop process.

Final exams

Complete final exam schedules are available online and your personalized exam schedule is available in Memorial Self-Service. You should be familiar with the scheduling of final exams, applying to write a deferred exam, and accessing your final exams scripts, as outlined in the University Calendar.

Registration help

Students attending the St. John’s campus can contact the Registrar’s Office at 709 864 4445 or reghelp@mun.ca.

Students attending Grenfell Campus can contact the Registrar’s Office at 709 637 6298, toll-free (in North America) at 1-866-381-7022 or info@grenfell.mun.ca.
NON-CREDIT COURSES AND PLACEMENT TESTS

Before you begin your first semester at Memorial, you will need to complete some non-credit course work and you may need to write placement tests in order to register for mathematics and laboratory science courses.

Calculus Placement Test (CPT)

For students who have completed high school Math 3208 or a similar calculus course (Advanced Placement or International Baccalaureate Higher Level) the department administers a test of differential calculus called the Calculus Placement Test (CPT). It may be written only once by each student. If you have taken a course other than Math 3208 then you must apply for permission to take the test. You can do this by sending an email to mathugrad@mun.ca, with a detailed outline of the calculus course you have completed. You may not write the CPT if you have taken Math 1000 or Math 1090 at Memorial.

Math Placement Test (MPT)

If you want to take an entry level mathematics courses at Memorial, then you may need to take a math placement test to demonstrate that you meet the prerequisite requirements.

- St. John's Campus MPT
- Grenfell Campus MPT

Academic Integrity

Integrity 1000 is a required non-credit course which you will automatically be registered for when you register for your first-semester courses. The course will be available in your list of courses in online.mun.ca. You can start INTG 1000 after registering for courses and you must pass this course before you can register for the next semester.

Laboratory Safety

If you are registering for laboratory science courses, you need to register for Science 1807 (Safety in the Science Laboratory) and Science 1808 (WHMIS), online safety training courses. These non-credit courses must be completed with a grade of at least 80% before the end of the registration period and can be accessed through online.mun.ca (Brightspace). Any questions can be directed to labsafety@mun.ca.
ACADEMIC INTEGRITY

Integrity (INTG) 1000 is an online course designed to help you learn more about academic integrity and the important role it plays at Memorial University and beyond. It will include topics related to: understanding the meaning of academic integrity and its associated university regulations; how to complete university work with academic integrity; and how to avail of supports to ensure academic integrity.

Course information

Integrity 1000 is a required non-credit course which must be completed in your first term of studies at Memorial.

As a first-year student, you will automatically be registered for Integrity 1000 when you register for your first-semester courses. The course will be available in your list of courses in Brightspace which you can access using your my.mun.ca login.

Course completion requirements

You will be able to access Integrity 1000 soon after you register for your courses. You will receive an email letting you know that you have been automatically registered for the course. For example, if you are registering for the fall semester you will be able to begin Integrity 1000 after you register for your courses in July. You will then have until week seven of your first semester to successfully complete the course. You must successfully complete Integrity 1000 before you will be permitted to register for the next semester. Information about assigned registration times will be sent to your mun.ca email. Once you receive information about your registration time, you will still have several weeks to complete Integrity 1000 before registration begins.

To pass the course, you must achieve a grade of 12/15 (80%) on each of the two quizzes included in the course. A grade of PAS will appear on your transcript at the end of the term in which you successfully complete the course.
Course structure

There are no textbooks required as the course content is entirely online. It is structured so that you complete it step-by-step from the links under Course Content in Brightspace. There are links throughout the course which will take you to resources for more information about academic integrity. The course features a variety of learning activities. You may repeat the modules and quizzes as many times as required to successfully pass the course. Once completed, you will continue to have access to a version of the course for reference throughout your university career.

Contact information

Erin Alcock and Wendy Rodgers
Co-ordinators, Integrity 1000
Research Liaison Librarians
Queen Elizabeth II Library
academicintegrity@mun.ca
709 864 7427
DEGREE PROGRAMS ST. JOHN’S CAMPUS

Business

- Bachelor of business administration
- Bachelor of commerce (co-operative)
- Joint bachelor of commerce (co-operative) and bachelor of arts
- Joint bachelor of business administration and bachelor of music

Education

- Bachelor of education (primary/elementary) as a first degree
- Bachelor of education (primary/elementary) as a second degree
- Bachelor of education (primary/elementary) as a second degree conjoint with a certificate in STEM education
- Bachelor of education (intermediate/secondary)
- Bachelor of education (intermediate/secondary) conjoint with a diploma in technology education
- Bachelor of music education (as a second degree)
- Bachelor of special education

Engineering

- Bachelor of engineering

Human Kinetics and Recreation

- Bachelor of human kinetics and recreation co-operative
- Bachelor of kinesiology

- Bachelor of physical education (general or teaching)
- Bachelor of recreation

Humanities and Social Sciences

- Bachelor of arts
- International bachelor of arts
- Joint bachelor of arts and bachelor of commerce (co-operative)
- Joint bachelor of arts and bachelor of music

Medicine

- Doctor of medicine

Music

- Bachelor of music
- Joint bachelor of music and bachelor of business administration

Nursing

- Bachelor of nursing (four-year option)
- Bachelor of nursing (three-year accelerated option)

Pharmacy

- Doctor of pharmacy

Science

- Bachelor of science
- Joint bachelor of science and bachelor of arts

Social Work

- Bachelor of social work (as a first or second degree)
When students graduate from Memorial with a business degree, they are prepared to compete and succeed anywhere in the world. Just ask business alumni who hold key positions in provincial, national and international organizations who are applying their leadership, knowledge and skills to help create an economically prosperous tomorrow. The teaching and learning opportunities offered at Memorial will take you outside of the classroom, beyond the borders of our province and into a global community of business leaders. At the Faculty of Business Administration, you begin as a student but become a leader.

**Programs**

- Bachelor of business administration
- Bachelor of commerce (co-operative)
- Joint bachelor of arts and bachelor of commerce (co-operative)
- Joint bachelor of music and bachelor of business administration

**Note:** The International Bachelor of Business Administration (iBBA) is currently under review. The Faculty of Business Administration will not be accepting applications for this program for the 2020-2021 academic year and until further notice.

**Why study business at Memorial?**

Memorial’s Faculty of Business Administration is a recognized leader in Canadian business education, offering innovative programs at the undergraduate and graduate levels. All degree programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB). In 2002, Memorial’s St. John’s campus became the first business faculty in Atlantic Canada to earn AACSB international accreditation. This is the highest distinction a business school anywhere in the world can receive. You can avail of various study abroad opportunities by taking advantage of exchange programs at more than 40 worldwide partners, or by participating in a group study abroad program at Memorial's Harlow Campus in England. Our co-operative education program for commerce students offers a placement rate of 100%, and students enjoy the benefit of small class sizes, one-on-one interaction with instructors, and modern learning facilities such as the White Trading Lab, a state-of-the-art management facility equipped with Bloomberg terminals.
Bachelor of Business Administration

The bachelor of business administration (BBA) is a flexible degree program that provides students with the knowledge and expertise to succeed in the business world after graduation. The customizable pace and course load make the program an excellent option for full-time or part-time students as well as those wishing to transfer from other post-secondary institutions. The program may be completed on campus, through online learning or a combination of both.

You may choose to focus your business electives in one of the following areas:

- Accounting
- Finance
- Human resources and labour relations
- International business
- Information systems
- Marketing
- Operational research
- Resource-based industries management
- Small business and entrepreneurship
- Supply chain management

You may also choose a minor from the following faculties and schools:

- Faculty of Humanities and Social Sciences
- Faculty of Science
- School of Music (music and culture, music history)
Admission requirements

New Memorial and transfer students

The BBA is a direct-entry program. You may apply for admission directly from high school or as a transfer student by indicating the Faculty of Business Administration as your faculty and the BBA as your program of choice on the undergraduate application for admission. Direct entry into the program is subject to the applicant meeting the general admission requirements to Memorial University.

Current Memorial students

Students may self-declare the BBA by emailing reghelp@mun.ca.

Contact information

For assistance with course selection, contact the Academic Advising Centre. For additional program information, visit the Faculty of Business Administration or contact Ashley Holloway.

Sample first year

Students pursuing a bachelor of business administration degree will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 1090 or 1000¹</td>
<td>Math 1000¹ or non-business elective</td>
</tr>
<tr>
<td>Economics 1010²</td>
<td>Economics 1020²</td>
</tr>
<tr>
<td>English 1090 (or 1020)</td>
<td>English 1110 (or 1021)</td>
</tr>
<tr>
<td>Business 1000³</td>
<td>non-business elective</td>
</tr>
<tr>
<td>non-business elective</td>
<td>non-business elective</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. Students should refer to the math course criteria chart prior to selecting a first-semester course. Students who complete Mathematics 1000 in the fall semester will complete an additional non-business elective in the winter semester.
2. These courses may be taken in any order in either semester.
3. Business 1000 may be taken in either semester.
Bachelor of Commerce (Co-operative)

This five-year program is designed to provide students with valuable work experience to complement knowledge learned in the classroom. The co-operative component of the program alternates academic study terms with periods of full-time employment, equating to one full year of work experience.

These work terms may be in industry, government or other organizations and will give you an opportunity to apply classroom learning while developing professional networks and gaining valuable, practical experience for today’s business environment. With a 100% placement rate for co-operative business work terms, graduates gain a diverse set of skills and abilities that make them sought after employees.

You may choose to focus your business electives in one of the following areas:

- Accounting
- Finance
- Human resources and labour relations
- Information systems
- International business
- Marketing
- Operational research
- Resource-based industries management
- Small business and entrepreneurship
- Supply chain management

You may also choose a minor from the following faculties and schools:

- Faculty of Humanities and Social Sciences
- Faculty of Science
- School of Music (music and culture, music history)
### Structure of the degree

<table>
<thead>
<tr>
<th>YEAR</th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>Term A/B</td>
</tr>
<tr>
<td>2</td>
<td>AT 1</td>
<td>AT 2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>AT 3</td>
<td>WT 1</td>
<td>AT 4</td>
</tr>
<tr>
<td>4</td>
<td>WT 2</td>
<td>AT 5</td>
<td>WT 3</td>
</tr>
<tr>
<td>5</td>
<td>AT 6</td>
<td>AT 7</td>
<td></td>
</tr>
</tbody>
</table>

AT - Academic Term; WT - Work Term

### Promotion to Term 1

To be promoted to Term 1, you must complete the following 30 credit hours (10 courses) in Terms A/B:

- Business 1000
- Economics 1010 and 1020
- English 1090 and 1110 (or 1020 and 1021)
- Mathematics 1090 and 1000 (or 1000 and three credit hours in a non-business elective)
- nine credit hours in non-business electives.

You must achieve a minimum overall average of 65% on these 10 courses to meet the promotion requirements to Term 1.

### Admission requirements

#### New Memorial students

You may apply for admission into the first year (Terms A/B) of the bachelor of commerce (co-operative) (B.Comm. (Co-op)) directly from high school. To apply, indicate the Faculty of Business Administration as your faculty and the B.Comm. (Co-op) Terms A/B as your program of study in the appropriate place on the university application for admission. Direct entry into the faculty from high school is subject to meeting the general admission requirements for Memorial University and admissibility into Mathematics 1000, 1090 or 109A/B.

#### Current Memorial and transfer students

If you are a current Memorial University student or are transferring from another post-secondary institution, you may apply for admission with advanced standing to Terms 1, 2, 3 or 4.

Admission with advanced standing beyond Terms A/B is competitive and limited. If you are a transfer student, you must complete at least one semester with five, three-credit hour courses before applying for admission into the program. It’s recommended that current and transfer students consult with
an academic advisor to determine their pathway of admission into the program.

To apply for admission to the B. Comm. (Co-op) beyond Terms A/B, indicate the Faculty of Business Administration as your faculty and B.Comm. (Co-op) as your program of study in the appropriate place on the undergraduate application for admission.

While a 65% overall average may make current Memorial and transfer students eligible for the program, it does not guarantee admission. Further information about applying for advanced standing may be found on the Faculty of Business Administration website.

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Business Administration or contact Ashley Holloway.

### Sample first year

Students pursuing a bachelor of commerce (co-operative) degree will normally take the following courses in first year:

<table>
<thead>
<tr>
<th>TERM A/FALL SEMESTER</th>
<th>TERM B/WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math 1090 or 1000¹</td>
<td>Math 1000¹ or non-business elective</td>
</tr>
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<td>Economics 1010²</td>
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</tr>
<tr>
<td>English 1090 (or 1020)</td>
<td>English 1110 (or 1021)</td>
</tr>
<tr>
<td>Business 1000³</td>
<td>non-business elective</td>
</tr>
<tr>
<td>non-business elective</td>
<td>non-business elective</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. Students should refer to the math course criteria chart prior to selecting a first-semester course. Students who complete Mathematics 1000 in the fall semester will complete an additional non-business elective in the winter semester.
2. These courses may be taken in any order in either semester.
3. Business 1000 may be taken in either semester.
Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts

The joint degrees of bachelor of commerce (co-operative) (B.Comm. (Co-op)) and bachelor of arts (BA) can be completed in five years, although careful planning is required. Some of the normal degree requirements have been relaxed in order to complete both programs in a minimum of 150 credit hours and graduate with both degrees at the same convocation.

This program is designed to provide students with valuable work experience to complement knowledge learned in the classroom. The co-operative component alternates academic study terms with periods of full-time employment, equating to one full year of work experience.

These work terms may be in industry, government or other organizations and give students an opportunity to apply classroom learning while developing professional networks and gaining valuable, practical experience for today’s business environment. With a 100% placement rate for co-operative business work terms, graduates of the program gain a diverse set of skills and abilities that make them sought after employees.

Students are encouraged to seek academic advice early in their program by contacting the Faculty’s Undergraduate Programs Office.

Program Information

Faculty/School: Faculty of Humanities and Social Sciences and Faculty of Business Administration
Degree: BA and B.Comm. (Co-op)
Campus: St. John’s
Co-op Available: Yes (mandatory)
Duration: 5 years
Intake:
  • Fall semester only (for Terms A/B)
  • For advanced standing, refer to the Faculty of Business Administration website
Application Deadline:
  • March 1 for fall semester admission (Terms A/B)
  • For advanced standing, refer to the Faculty of Business Administration website
Supplementary Application:
  Yes (for transfer and advanced standing students only)
Admission requirements

New Memorial students

You may apply for admission into the first year (Terms A/B) of the B.Comm. (Co-op) directly from high school. To apply, indicate the Faculty of Business Administration as your faculty and the B.Comm. (Co-op) Terms A/B as your program of study in the appropriate place on the undergraduate application for admission. Direct entry into the faculty from high school is subject to meeting the general admission requirements for Memorial University and admissibility into Mathematics 1000, 1090 or 109A/B.

Once admitted to the university, students may email reghelp@mun.ca and request the BA be added to their application as a second degree.

Promotion to Term 1

To be promoted to Term 1, you must complete the following 30 credit hours (10 courses) in Terms A/B:

- Business 1000
- Economics 1010 and 1020
- English 1090 and 1110 (or 1020 and 1021)
- Mathematics 1090 and 1000 (or 1000 and three credit hours in a non-business elective)
- nine credit hours in non-business electives.

You must achieve a minimum overall average of 65% on these 10 courses to be promoted to Term 1.

In order to fit the requirements of both degrees within a five-year period, it is strongly recommended that non-business elective courses are selected to meet specific BA requirements. Language study courses and courses in the intended major should round out the first-year program.
Current Memorial and transfer students

If you are a current Memorial University student or are transferring from another post-secondary institution, you may apply for admission with advanced standing to Terms 1, 2, 3 or 4. Admission with advanced standing beyond Terms A/B is competitive and limited. Transfer students must complete at least one semester with five three-credit hour courses before applying for admission into the program. It is recommended that current and transfer students consult with an academic advisor to determine their pathway of admission into the program.

To apply for admission to the B.Comm. (Co-op) beyond Terms A/B, indicate the Faculty of Business Administration as your faculty and the B. Comm. (Co-op) as your program of study in the appropriate place on the undergraduate application for admission.

Students may then e-mail reghelp@mun.ca and request the BA be added as a second degree.

While a 65% overall average enables current Memorial and transfer students eligible for the program, it does not guarantee admission. Further information about applying for advanced standing can be found on the Faculty of Business Administration website.

Structure of the degree

<table>
<thead>
<tr>
<th>YEAR</th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Term A/B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>AT 1</td>
<td>AT 2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>AT 3</td>
<td>WT 1</td>
<td>AT 4</td>
</tr>
<tr>
<td>4</td>
<td>WT 2</td>
<td>AT 5</td>
<td>WT 3</td>
</tr>
<tr>
<td>5</td>
<td>AT 6</td>
<td>AT 7</td>
<td></td>
</tr>
</tbody>
</table>

AT - Academic Term; WT - Work Term

Students should follow the academic and work term schedule outlined in the Calendar.
Sample first year

Students pursuing joint degrees of bachelor of commerce (co-operative) and bachelor of arts will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>TERM A/FALL SEMESTER</th>
<th>TERM B/WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090 or 1000&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Mathematics 1000 or (BA Core Requirement course)&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Economics 1010 or 1020&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Economics 1010 or 1020&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>English 1090 (or 1020)&lt;sup&gt;3&lt;/sup&gt;</td>
<td>English 1110 (or 1021)&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Business 1000&lt;sup&gt;4&lt;/sup&gt;</td>
<td>BA core requirement course</td>
</tr>
<tr>
<td>BA major program course&lt;sup&gt;5&lt;/sup&gt;</td>
<td>BA major program course&lt;sup&gt;5&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. Students should refer to the math course criteria chart prior to selecting a first-semester course. Mathematics 1000 is required for the B.Comm.(Co-op.) program. Students may take Mathematics 1090 in the fall semester and Mathematics 1000 in the winter semester, or Mathematics 1000 in the fall semester and a BA core requirements course in the winter semester.

2. These courses may be taken in any order in either semester.
3. For the BA, students must complete a minimum of six credit hours in the study of a single language, other than English. Students whose first language is not English and who do not meet the standards for entry into regular first-year English courses may use English 1020 and 1021 to fulfill this requirement. Such students are permitted to complete up to an additional six credit hours in Department of English Critical Reading and Writing courses at the 1000 level in order to fulfill the Critical Reading and Writing Requirement.
4. Business 1000 may be taken in either semester.
5. By the end of your first year, you should discuss your program with the head of the department of your intended major program to make sure that the required courses will be available within the constraints of course scheduling and prerequisites.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Business Administration and the Faculty of Humanities and Social Sciences, or contact Ashley Holloway or Renée Shute, respectively.
Joint Degrees of Bachelor of Music and Bachelor of Business Administration

Memorial University’s joint music and business administration degree program is the only program in Canada to offer comprehensive, integrated studies in both disciplines.

This program enables you to earn two degrees – a bachelor of music and a bachelor of business administration – in just five years!

Admission requirements

Admission to the program is competitive.

All applicants must satisfy the general admission requirements of the university and then be admitted to the bachelor of music program. The audition process includes an audition on the candidate’s principal applied instrument. Admission decisions are made with particular emphasis on an applicant’s audition and their academic performance.

Students are normally admitted to the B.Mus. degree program at the beginning of the fall semester. Successful applicants may enter the joint program immediately in their first semester. All applications must be submitted to the Office of the Registrar. The deadline for applications is January 15.

Detailed information on audition requirements can be found in the entrance information available from the School of Music.

Application fee

In addition to the University’s general application fee, applicants are required to pay a music supplementary application fee of $40 CAD.
Sample first year

Students pursuing joint degrees of bachelor of music and bachelor of business administration will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 1000</td>
<td>Business 1600</td>
</tr>
<tr>
<td>Mathematics 1090 or 1000&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Economics 1010 or Mathematics 1000&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Music 1005</td>
<td>English 1090</td>
</tr>
<tr>
<td>Music 140A</td>
<td>Music 140B</td>
</tr>
<tr>
<td>Music 1107&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Music 1006</td>
</tr>
<tr>
<td>Music 1117&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Music 1108</td>
</tr>
<tr>
<td>Music 1700&lt;sup&gt;4&lt;/sup&gt;</td>
<td>Music 1118</td>
</tr>
<tr>
<td>one credit hour chosen to meet</td>
<td>one credit hour chosen to meet</td>
</tr>
</tbody>
</table>

1. Students who are required to take Mathematics 1090 prior to Mathematics 1000 should complete Mathematics 1090 in Term 1, Mathematics 1000 in place of Economics 1010 in Term 2, and Economics 1010 in Term 4.

2. Prerequisite: Successful completion of the theory placement test. If unsuccessful, students should register for Music 1120 in preparation for retaking the test. Co-requisite: Music 1117

3. Prerequisite: Successful completion of the theory placement and aural skills tests. Co-requisite: Music 1107

4. Music technology will give students skills in Finale notation software and basic audio recording and editing. Students should be aware that they will be required to take a functional keyboard course in second year. Students who do not pass the piano proficiency entrance diagnostic are expected to take private lessons in piano at their own expense in their first year to qualify for Music 2401.

Students who wish to deviate from the above curriculum, including students who wish to complete online courses or courses in the spring semester, intersession, or summer session, should consult with an advisor in the Faculty of Business Administration or the School of Music to ensure they do not experience unforeseen delays in completing the joint degrees program.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Business Administration and School of Music, or contact Ashley Holloway or Dr. Ian Sutherland, respectively.
EDUCATION

The Faculty of Education offers a range of undergraduate programs, using a combination of delivery modes, technology and innovative approaches to prepare teachers for careers in the K-12 school system and a variety of adult learning settings. Our programs are designed to prepare new teachers to create exceptional learning environments for their students, to meet the diverse needs of learners, and to engage in critical inquiry about their teaching practice.

Programs

- Bachelor of education (primary/elementary) as a first degree
- Bachelor of education (primary/elementary) as a second degree
- Bachelor of education (primary/elementary) as a second degree conjoint with a certificate in STEM education
- Bachelor of education (intermediate/secondary)
- Bachelor of education (intermediate/secondary) conjoint with the diploma in technology education
- Bachelor of education (post-secondary) as a first degree
- Bachelor of education (post-secondary) as a second degree
- Bachelor of music education (as a second degree)
- Bachelor of special education

Why study education at Memorial?

Whether you choose to be a classroom teacher, a counselor or a leader, there's no better place than the Faculty of Education to help you find your way. The Faculty provides students with:

- vibrant education student society
- state of the art teaching and learning commons for student use
- an education library filled with resources
- customized learning spaces e.g., math, art, French
- local, national and international teaching internship opportunities
- faculty that leads the way in hands-on learning

Contact Information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Education.
Bachelor of Education (Primary/Elementary) as a First Degree

The bachelor of education (primary/elementary) as a first degree is a 150 credit hour program designed to prepare teachers of kindergarten through grade six. This full-time, professional program, which extends over six semesters (three years), includes school visit days and a one-semester internship placement.

Admission requirements

Direct entry to the Faculty of Education from high school is not available. To apply for admission into the faculty, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

To be considered for admission to the bachelor of education (primary/elementary) as a first degree program, you must have successfully completed 60 credit hours (20 courses) with either a cumulative average of at least 65% or an average of at least 65% on the last attempted 30 credit hours (10 courses).
The 60 credit hours (20 courses) for admission must include:

- 12 credit hours in English, including at least six credit hours at the 2000-level or above (English as a Second Language courses cannot be used to satisfy this requirement)
- six credit hours in mathematics or three credit hours in calculus
- six credit hours in psychology
- nine credit hours from three separate science areas, six credit hours must have a laboratory component. Chemistry 1900 may be used to satisfy three credit hours of the laboratory requirement.
  The science areas are: biochemistry, biology, chemistry, earth sciences, environmental science, ocean sciences, physics; or a focus area in science
- six credit hours in any combination from anthropology, archaeology, economics, folklore, geography, history, linguistics, political science, religious studies, or sociology
- six credit hours in French* (recommended) or six credit hours in a single language other than English or demonstration of equivalent competency in a second language
- 15 credit hours in a focus area: English, folklore, French*, geography, history, linguistics, mathematics, music, physical education, religious studies, science, theatre arts, visual arts
- additional credit hours from subject areas other than education

*The Bachelor of Education (Primary/Elementary) as a Second Degree offers a French as a Second Language option.

Consideration will be given to the courses for which you are registered at the time of application. If you will have completed all requirements for admission by the end of the spring semester of the year that admission is being sought, your application will only be considered as time and resources permit.

In assessing applications for the program, consideration will be given to your overall academic performance, personal statement and references.
Additional documents required for admission

Your application to the bachelor of education (primary/elementary) will require you to submit the following:

- personal statement (included as part of the online application)
- academic and non-academic references
- official transcript(s)

The Faculty of Education provides full details on supporting documents required for admission.

Sample first year

Students pursuing a bachelor of education (primary/elementary) as a first degree will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1050</td>
<td>Mathematics 1051</td>
</tr>
<tr>
<td>laboratory science course</td>
<td>laboratory science course</td>
</tr>
<tr>
<td>focus area course</td>
<td>focus area course</td>
</tr>
<tr>
<td>French or psychology course</td>
<td>French or psychology course</td>
</tr>
<tr>
<td>English 1090</td>
<td>English 1191, 1192, 1193 or 1110</td>
</tr>
</tbody>
</table>
Focus areas

Students must select one focus area from the subjects listed below:

<table>
<thead>
<tr>
<th>English (24 credit hours)</th>
<th>Folklore (24 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 6 credit hours in English at the 1000 level</td>
<td>• Folklore 1000</td>
</tr>
<tr>
<td>• English 2390 or 3395</td>
<td>• Folklore 2100, 2300, 2401, 2500</td>
</tr>
<tr>
<td>• 3 credit hours chosen from English 2000, 2001, 2005-2007, 3200, 3201, 3205</td>
<td>• 9 credit hours in Folklore at the 3000 or 4000 level</td>
</tr>
<tr>
<td>• 3 credit hours chosen from English 2002-2004, 2010 or the former 2020, 2350, 2351</td>
<td></td>
</tr>
<tr>
<td>• 6 credit hours chosen from English 2146, 2150, 2151, 2155, 2156, 2160, 3145, 3147-3149, 3152, 3155-3158</td>
<td></td>
</tr>
<tr>
<td>• 3 additional credit hours in English at the 2000 level or above</td>
<td></td>
</tr>
<tr>
<td><strong>French (36 credit hours)</strong></td>
<td><strong>Geography (18 credit hours)</strong></td>
</tr>
<tr>
<td>• The equivalent of a major in French with a maximum of 6 credit hours at the 1000 level.</td>
<td>• Geography 1050, 2001, 2102, 2195, 2302, and 2425</td>
</tr>
<tr>
<td>• An average of at least 65% in the 36 credit hours.</td>
<td></td>
</tr>
<tr>
<td>• At least 8 weeks at an approved Francophone institution in a French-speaking area or</td>
<td></td>
</tr>
<tr>
<td>have acquired equivalent work experience in a Francophone environment.</td>
<td></td>
</tr>
</tbody>
</table>

It is recommended that a student complete at least one of French 2900, 3650, 3651, 3653, 3654.

An applicant with French as focus area must have written the DELF Tout Public (Level B2) and achieved an overall grade of at least 70%, with no less than 60% in any one skill area of the exam.

French as a Second Language option is available in the Bachelor of Education (Primary/Elementary) as a Second Degree only. For further information contact the Office of Academic Programs.
<table>
<thead>
<tr>
<th>History (18 credit hours)</th>
<th>Interdisciplinary Studies (18-24 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 3 credit hours in History at the 1000 level</td>
<td>• Non-Education courses for cohorts in special offerings of the program. For additional information students should contact the Undergraduate Admissions Office, Faculty of Education.</td>
</tr>
<tr>
<td>• 9 credit hours in History at the 2000 level</td>
<td></td>
</tr>
<tr>
<td>• 6 credit hours in Newfoundland and Labrador History at the 3000 level</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Linguistics (18 credit hours)</th>
<th>Mathematics (18 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Linguistics 1100 or 1155 (Linguistics 1155 is recommended)</td>
<td>• No more than 6 credit hours in Mathematics at the 1000 level and at least 3 credit hours in Mathematics at the 3000 level.</td>
</tr>
<tr>
<td>• Linguistics 1103</td>
<td></td>
</tr>
<tr>
<td>• Linguistics 1104</td>
<td></td>
</tr>
<tr>
<td>• Linguistics 2210</td>
<td></td>
</tr>
<tr>
<td>• 6 credit hours chosen from Linguistics 3000, 3100, 3104, 3155, 3201, 3210, 3500, 3850</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Music (18 credit hours)</th>
<th>Physical Education (18 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Music 1106 or 1120</td>
<td>• Human Kinetics and Recreation 1000, 2210, 2300</td>
</tr>
<tr>
<td>• 3 credit hours chosen from Music 2011, 2012, 2013, 2014</td>
<td>• 9 credit hours chosen from Human Kinetics and Recreation 2002, 2310 or 2311, 2320, 2600, 2601, 3330, 3340, 3400, 3490</td>
</tr>
<tr>
<td>• 3 credit hours chosen from Music 2021, 2022, 2023, 2611, 2612, 2613, 2614, 2619 (admission to 2612, 2613 and 2619 is by audition only)</td>
<td></td>
</tr>
<tr>
<td>• 6 credit hours chosen from Music 3014, 3015, 3016, 3017, 3018, 3019, 4040</td>
<td></td>
</tr>
<tr>
<td>• 3 additional credit hours from the courses in bullets two and four above</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Religious Studies (18 credit hours)</th>
<th>Science (18 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Religious Studies 1000</td>
<td>• At least 6 credit hours in each of two subject areas selected from biochemistry, biology, chemistry, Earth sciences, environmental science, ocean sciences, or physics.</td>
</tr>
<tr>
<td>• 3 credit hours chosen from Religious Studies 2013, the former 2130, the former 2140, 2330, 2340</td>
<td>• At least 6 credit hours used to meet this requirement must have a laboratory component. Chemistry 1900 may be used to satisfy 3 credit hours of the laboratory requirement.</td>
</tr>
<tr>
<td>• 3 credit hours chosen from Religious Studies 2400, 2410, 2420, 2425, 2430</td>
<td></td>
</tr>
<tr>
<td>• 3 credit hours chosen from Religious Studies 2350, 2610, 2810, 2811, 2812, the former 2820, 2830</td>
<td></td>
</tr>
<tr>
<td>• 6 credit hours in Religious Studies at the 3000 level or above</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Theatre Arts (18 credit hours)</th>
<th>Visual Arts (18 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• For information on the Theatre Arts Focus Area contact the Undergraduate Admissions Office, Faculty of Education.</td>
<td>• Courses in Art History may be used to satisfy this requirement in whole or in part. For information on the Visual Arts Focus Area contact the Undergraduate Admissions Office, Faculty of Education.</td>
</tr>
</tbody>
</table>
Bachelor of Education (Primary/Elementary) as a Second Degree

The bachelor of education (primary/elementary) as a second degree is a full-time 72 credit hour, professional program, which includes a number of integrated field experiences throughout the program as well as a 12 credit hour teaching internship. It is intended for candidates who have already completed an appropriate bachelor’s degree. This program is available at the St. John’s campus and will run for fall, winter and intersession in the first year, followed by a break during the summer session and concluding with fall and winter semesters in the second year. A 75 credit hour French as a second language option is also available and commences in August each year.

The Grenfell campus offering of this program is currently under review and is not available for intake at this time. For further information please contact the Faculty of Education’s Office of Academic Programs.

A French as a second language option is available only at the St. John’s campus.
Admission requirements

To apply for admission into the Faculty of Education, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

To be considered for admission to the bachelor of education (primary/elementary) as a second degree program, you must have been awarded an approved bachelor’s degree or been approved (prior to the program start) for the award of a bachelor’s degree from a university recognized by Memorial University and achieved a cumulative average of at least 65% or an average of at least 65% on the last attempted 30 credit hours (10 courses).

You must also have completed a minimum of:

- six credit hours in English (English as a second language courses cannot be used to satisfy this requirement)
- six credit hours in mathematics or three credit hours in calculus
- six credit hours in psychology
- nine credit hours from three separate science areas, six credit hours must have a laboratory component. Chemistry 1900 may be used to satisfy three credit hours of the laboratory requirement. The science areas are: biochemistry, biology, chemistry, Earth sciences, environmental science, ocean sciences, physics; or a focus area in science
- six credit hours in any combination to be chosen from: anthropology, archaeology, economics, folklore, geography, history, linguistics, political science, religious studies or sociology
- six credit hours in French (recommended) or six credit hours in a single language other than English or demonstration of equivalent competency in a second language
- the equivalent of a completed focus area as outlined in the Calendar or a major or minor within the initial bachelor’s degree program in a subject area classified as a focus area
French focus area applicants

If you intend for French to be your focus area, you must apply under the French as a second language option. This option begins with a three-week institute in August. Under this option you must have:

- completed the DELF Tout Public (Level B2) and achieved an overall grade of at least 70%, with no less than 60% in any one skill area of the exam;
- completed at least eight weeks at an approved Francophone institution or have acquired equivalent work experience in a Francophone environment; and
- completed at least 36 credit hours in French with an average of at least 65% in the 36 credit hours.

For further information on this option please contact the Faculty of Education's Office of Academic Programs.

Additional documents required for admission

Your application to the bachelor of education (primary/elementary) as a second degree will require you to submit the following:

- personal statement (included as part of the online application)
- academic and non-academic references
- official transcript(s)

The Faculty of Education provides full details on supporting documents required for admission.
Bachelor of Education (Primary/Elementary) as a Second Degree Conjoint with a Certificate in STEM Education

The new bachelor of education (primary/elementary) as a second degree conjoint with a certificate in STEM education is an 85 credit hour program designed to prepare teachers of kindergarten through grade six. It is intended for candidates who have completed an appropriate bachelor’s degree. This full-time, professional program, which extends over four phases (two years) includes on-going extensive school and community field experiences.

This program is available only at the St. John’s campus.

Admission requirements

To apply for admission into the Faculty of Education, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

To be considered for admission to the bachelor of education (primary/elementary) as a second degree program, conjoint with a certificate in STEM Education, you must have been awarded an approved bachelor’s degree or been approved (prior to the program start) for the award of a bachelor's degree from a university recognized by Memorial University and achieved a cumulative average of at least 65% or an average of at least 65% on the last attempted 30 credit hours (10 courses).
You must have completed a minimum of:

- six credit hours in English (English as a Second Language courses cannot be used to satisfy this requirement)
- six credit hours in mathematics or three credit hours in calculus
- six credit hours in psychology
- nine credit hours from three separate science areas, six credit hours must have a laboratory component. Chemistry 1900 may be used to satisfy three credit hours of the laboratory requirement. The science areas are: biochemistry, biology, chemistry, Earth sciences, environmental science, ocean sciences, physics; or a focus area in science
- six credit hours in any combination to be chosen from: anthropology, archeology, economics, folklore, geography, history, linguistics, political science, religious studies or sociology
- six credit hours French (recommended) or six credit hours in a single language other than English or demonstration of equivalent competency in a second language
- the equivalent of a completed focus area as outlined in the Calendar or a major or minor within the initial bachelor's degree program in a subject area classified as a focus area

French is typically not available as a focus area in this program. For further information please contact the Faculty of Education's Office of Academic Programs.

Additional documents required for admission

The Faculty of Education provides full details on supporting documents required for admission. Your application to the bachelor of education (primary/elementary) as a second degree conjoint with a certificate in STEM education will require you to submit the following:

- personal statement (included as part of the online application)
- academic and non-academic references
- official transcript(s)

Selected candidates will be required to attend an admission interview.
Bachelor of Education (Intermediate/Secondary)

The bachelor of education (intermediate/secondary) is a 51 credit hour, second degree program designed to prepare teachers of grades 7-12. Upon successful completion of the program, you will be qualified to teach in your designated academic disciplines. This full-time, professional program, which extends over three consecutive semesters, is intended for candidates who have completed an appropriate bachelor’s degree. It includes a two-week early internship and a one-semester internship placement.

A French as a second language option is available.

Academic Disciplines for Bachelor of Education (Intermediate/Secondary)

A limited number of program spaces are allocated to each academic discipline:

- biochemistry
- biology
- business studies
- Canadian studies
- chemistry
- Earth sciences
- economics
- English
- environmental science
- French
- general science
- geography
- history
- mathematics (may include statistics)
- Newfoundland and Labrador studies
- physical education
- physics
- political science
- religious studies (only offered every two years)
- theatre arts (only offered every two years)
- visual arts (only be offered every two years)
Admission requirements

To apply for admission into the Faculty of Education, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

To be considered for admission, you must have:

- been awarded an approved bachelor’s degree from Memorial University or a university recognized by Memorial University
- completed 36 credit hours in an approved academic discipline (business studies, Newfoundland and Labrador studies and religious studies cannot be used to satisfy the 36 credit hour requirement)
- completed 24 credit hours in a second approved academic discipline
- achieved an overall average of at least 65% in each of the sets of courses chosen above

Consideration will be given to the courses for which you are registered at the time of application. If you are registered in the final semester of your first bachelor’s degree program during the winter semester, you must have satisfied the academic requirements set out above, upon completion of your first degree program.

If you're completing a degree from a university other than Memorial University, you must submit an official transcript denoting the award of your first degree. You must supply transcripts indicating winter semester grades no later than June 15.

If you will have completed all requirements for admission by the end of the spring semester of the year that admission is being sought your application will be considered as time and resources permit.

Additional documents required for admission

Your application to the bachelor of education (intermediate/secondary) will require you submit the following:

- personal statement (included as part of the online application)
- academic and non-academic references
- official transcript(s)

The Faculty of Education provides full details on supporting documents required for admission.
Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education

The bachelor of education (intermediate/secondary) conjoint with the diploma in technology education is a 69 credit hour, second degree program designed to prepare teachers of grades 7-12 including technology education teachers. Students complete a number of courses that address the development of basic skills and competencies in a variety of technological areas and how to apply them through design and problem-solving processes in a school classroom/laboratory setting. This full-time, professional program, which extends over four consecutive semesters, includes a two-week early internship and a one-semester internship placement.

Academic Disciplines

A limited number of program spaces are allocated to each academic discipline:

- biochemistry
- biology
- chemistry
- Earth sciences
- economics
- English
- environmental science
- French
- general science
- geography
- history
- mathematics (may include statistics)
- physical education
- physics
- political science
- theatre arts (only offered every two years)
- visual arts (only offered every two years)
Admission requirements

To apply for admission into the Faculty of Education, indicate your desired degree option in the appropriate place on the undergraduate application for admission. To be considered for admission, you must have:

- been awarded an approved bachelor’s degree from Memorial University or a university recognized by Memorial University
- completed 36 credit hours in an approved academic discipline
- achieved an overall average of at least 65% in the set of courses chosen to meet the requirement above

Consideration will be given to the courses for which you are registered at the time of application. In assessing applications, consideration will be given to your average in the academic discipline, overall academic performance, personal statement, and references.

Additional documents required for admission

Your application to the bachelor of education (intermediate/secondary) conjoint with the diploma in technology education will require you to submit the following:

- personal statement (included as part of the online application)
- academic and non-academic references
- official transcript(s)

The Faculty of Education provides full details on supporting documents required for admission.
Bachelor of Music Education as a Second Degree

The bachelor of music education is a 45 credit hour professional program designed to prepare kindergarten to grade 12 music teachers in all facets of school music education: foundations of music education; primary/elementary and intermediate/secondary classroom music; and choral and instrumental music education. It can normally be completed in three semesters, including a one-semester internship.

Admission requirements

To be considered for admission, you must have completed a bachelor’s degree in music (or equivalent) from a post-secondary institution recognized by Memorial University. Your previous bachelor’s degree should normally include courses or equivalent experiences in conducting and instrumental techniques (brass, woodwinds, strings and percussion). Consideration will be given to the courses for which you are registered at the time of application.

Additional documents required for admission

Your application will require you to submit the following:

- personal statement (included as part of the online application)
- academic and non-academic references
- resume
- official transcript(s)

The Faculty of Education provides full details on supporting documents required for admission.
Bachelor of Special Education

The bachelor of special education program is for those who hold a prior degree in education. The program is designed to prepare teachers of kindergarten to grade 12 who specialize in accommodating learner diversity and exceptionalities in the school system. This 36 credit hour professional program is available through part-time or full-time study. A number of courses are available through online learning.

Admission requirements

To be considered for admission to the bachelor of special education program, you must have:

- been awarded a degree in primary and/or elementary education, music education, or intermediate/secondary education from Memorial University or another recognized institution
- completed Education 4240 (or equivalent) and Education 3312 and 3543, or 4350 (or equivalent)
- successfully completed a professional internship in education or have equivalent teaching experience prior to admission
- A minimum 65% average in the last 20 attempted three credit hour courses (not including the internship)

Additional documents required for admission

Your application to the bachelor of special education will require you submit the following:

- two references
- teaching experience form
- official transcript(s)

The Faculty of Education provides full details on supporting documents required for admission.
ENGINEERING

A five-year co-operative degree program composed of eight full-time academic terms and a minimum of four full-time work terms. You will have the opportunity to apply the engineering concepts and theories you learn in the classrooms and laboratories to the real world as you complete work terms that will give you the equivalent of up to two years of real engineering work experience prior to graduation.

Beginning in the second year of the program, you will specialize in one of six available majors:

- Civil engineering
- Computer engineering
- Electrical engineering
- Mechanical engineering
- Ocean and naval architectural engineering
- Process engineering

Students will be introduced to each of the disciplines to aid in selecting their preference prior to Term 3. Focus streams in biomedical engineering are available in the Computer, Electrical and Mechanical programs.

Graduation from any bachelor of engineering program satisfies the academic requirements for registration as a professional engineer (P.Eng.).
Program Structure

The common first year of our engineering program is referred to as Engineering One. You will study mathematics, physics, chemistry, English and engineering fundamentals which are common to each of the majors we offer. Courses in Engineering One will introduce you to engineering problem-solving, analysis, design, communication and teamwork. You will develop an understanding of different engineering fields and how engineering relates to real world issues.

At the end of the first year, you must apply for your major. In the second year of the program, you begin alternating between academic terms and work terms in the fall, winter and spring semesters.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engineering One</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>AT3</td>
<td>WT</td>
<td>AT4</td>
</tr>
<tr>
<td>3</td>
<td>WT</td>
<td>AT5</td>
<td>WT</td>
</tr>
<tr>
<td>4</td>
<td>AT6</td>
<td>WT</td>
<td>AT7</td>
</tr>
<tr>
<td>5</td>
<td>WT</td>
<td>AT8</td>
<td></td>
</tr>
</tbody>
</table>

AT - Academic Term; WT - Work Term

Admission requirements

New Memorial students

Admission to Engineering One and to the majors offered by the faculty is competitive for a limited number of placements. In general, grades above 80% in high school advanced mathematics, chemistry, physics and English are normally required for consideration, however students who have not successfully completed either chemistry or physics but who have performed well in the other subjects may be considered. You must meet the Faculty of Engineering's English language requirements. Meeting the minimum admission requirements does not guarantee acceptance into the program. Final admission and readmission decisions rest with the Engineering Admissions Committee.

Students who demonstrate English language proficiency through a standardized test will also be required to complete an engineering e-proctored test if they qualify.
To qualify to write the e-proctored test, you will need to achieve a minimum of the following English test scores:

<table>
<thead>
<tr>
<th></th>
<th>IELTS</th>
<th>TOEFL</th>
<th>CAEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall</td>
<td>6.5</td>
<td>90</td>
<td>70</td>
</tr>
<tr>
<td>Reading</td>
<td>6.0</td>
<td>20</td>
<td>60</td>
</tr>
<tr>
<td>Listening</td>
<td>6.0</td>
<td>20</td>
<td>60</td>
</tr>
<tr>
<td>Speaking</td>
<td>6.5</td>
<td>25</td>
<td>70</td>
</tr>
<tr>
<td>Writing</td>
<td>6.5</td>
<td>25</td>
<td>70</td>
</tr>
</tbody>
</table>

**Note:** the results of the e-proctored test have no impact on general admissibility to the University, only to the bachelor of engineering.

**College of the North Atlantic college transition program**

If you have successfully completed the College of the North Atlantic transition program, you will be considered equivalent to students entering directly from high school.

**MATHEMATICS**

Applicants must be eligible, or have earned credit, for Mathematics 1000 (Calculus I).

Newfoundland and Labrador high school students must complete Advanced Mathematics 3200 with a minimum grade of 75%. Academic Mathematics 3201 is not acceptable. Calculus 3208 is recommended. Students who complete Calculus 3208 are eligible to write the Calculus Placement Test; successful students will receive credit for Math 1000 and can proceed to Math 1001.

Out-of-province high school students must complete a Grade 12 level advanced mathematics course and write the Mathematics Placement Test with a score of at least 75%. Alternatively, students who have taken a differential calculus course can contact the math advisor, mathugrad@mun.ca, to request permission to write the Calculus Placement Test.

Completion of International Baccalaureate (IB) Higher Level Mathematics with a score of five or completion of Advanced Placement Mathematics (Calculus AB or BC) with a score of three or higher will be accepted as equivalent credit for Mathematics 1000. Completion of IB Standard Level Mathematics with a score of four will allow for registration in Mathematics 1000.
CHEMISTRY AND PHYSICS

You must be eligible to register for Chemistry 1050 and Physics 1050 and 1051 in Engineering One. Students who have completed Chemistry 3202 (or equivalent) in high school, and received at least 65%, will be eligible for admission to Chemistry 1050 in Engineering One. It is strongly recommended that students complete Physics 3204 (or equivalent) in high school prior to registering for Physics 1050.

ADDITIONAL NOTES

Students who are not eligible for direct entry from high school may complete some of the Engineering One courses (Mathematics 1000, 1001, 2050; Chemistry 1050; Physics 1050, 1051; and/or English 1090 or 1020 or 1000) and apply to Engineering One in a later semester (winter and/or spring semester). These students must meet the admission criteria for current Memorial students, outlined below, as well as the Faculty's English language requirements.

Current Memorial students

To be eligible for consideration for admission to the bachelor of engineering, if you are attending or have previously attended Memorial University, you must have a cumulative average of at least 70%, and obtained a grade of at least 70% in two or more of the following Memorial University courses: Math 1000, 1001, 2050; Chemistry 1050; Physics 1050, 1051; English 1090 or 1020 or 1000.

Transfer students

Applicants seeking admission to Engineering One through transfer from accredited post-secondary institutions must have achieved a minimum overall average of 70% and have been determined to have completed the equivalent of, or be eligible to register for, Mathematics 1000. Transfer applicants must complete a majority of the credit hours in their program at Memorial University and must meet the Faculty's English language requirements. Applicants are eligible for admission to the fall semester of Engineering One only, and must apply by the March 1 deadline.
Advanced standing

Students are occasionally admitted to semesters of the bachelor of engineering degree program beyond Engineering One from within the university or from other institutions. Such entry is normally based on a detailed analysis of the student’s record and normally requires applicants to have completed the equivalent of all requirements for promotion from previous semesters. A student’s major and remaining degree requirements are determined on a case-by-case basis at the time of admission.

If you believe you could be considered for advanced standing, contact the Office of the Associate Dean (Undergraduate Studies).

Sample first year

Students admitted to the first year of the bachelor of engineering degree program who have either completed (at Memorial University or through transfer credit) or who are eligible to register for Mathematics 1000, Physics 1050 and Chemistry 1050 in their first semester should be able to complete all Engineering One courses during their first three semesters.

Admitted students who are not eligible to register for Physics 1050 and Chemistry 1050 in their first semester may take an alternate slate of courses in these subjects in order to meet the requirements for promotion to term 3. These are described in the notes following the sample program.

ENGINEERING ONE

Students pursuing a bachelor of engineering will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>Physics 1050&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Physics 1051&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Chemistry 1050&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Mathematics 2050</td>
</tr>
<tr>
<td>2 Engineering courses (1010 or 1020 and 1030 or 1040&lt;sup&gt;6&lt;/sup&gt;)</td>
<td>2 Engineering courses (1010 or 1020 and 1030 or 1040&lt;sup&gt;6&lt;/sup&gt;)</td>
</tr>
<tr>
<td>English 1090 or 1020 or 1000&lt;sup&gt;5&lt;/sup&gt;</td>
<td></td>
</tr>
<tr>
<td>Engineering 200W&lt;sup&gt;6&lt;/sup&gt;</td>
<td></td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course.
2. Students registered in Physics 1050 must also be registered in or have credit
for Mathematics 1000. Students who complete Physics 1020 in their first semester with a grade of at least 70% may take Physics 1051 in the second semester. Physics 1051 requires Mathematics 1001 to be completed concurrently (or as a prerequisite). Students who complete Physics 1020 with a grade of less than 70% must complete Physics 1021 before 1051 in order to meet the Engineering One physics requirements.

3. At the St. John’s campus, students who are not eligible to register for Chemistry 1050 in the fall semester may complete Chemistry 1010. Students who achieve a grade of at least 60% in Chemistry 1010 may register for Chemistry 1050 in the winter semester.

4. At the St. John’s campus, students who have completed Level III/Grade 12 physics may take Engineering 1040 in their first semester. Students who have not completed a physics course at this level should take Engineering 1040 in the second semester of Engineering One concurrently with Physics 1051.

5. English may be completed in either the fall or winter semester.

6. Students intending to complete a work term in the spring semester are expected to complete Engineering 200W, Work Term Preparation and Professional Development, in the fall semester of Engineering One. Students who are unable to complete 200W in the fall will complete it in the winter semester of Engineering One.

Although courses in Engineering One are offered on a credit basis and the engineering courses will be offered in each of the three semesters, it is recommended that students take two engineering courses in each of the fall and winter semesters. The engineering course pairs 1010/1020 and 1030/1040 are offered in single slots so that students can only take one from each pair in the fall and winter semesters. All four courses are offered separately in the spring semester.

**PROMOTION FROM ENGINEERING ONE**

All students must successfully complete the requirements of Engineering One prior to being promoted to academic term 3. All engineering students who meet promotion requirements from Engineering One at the end of the academic year of admission will be guaranteed a place in academic term 3, although not necessarily in their preferred major.

The minimum requirements for promotion to academic term 3 are:

- a grade of at least 55% in each of Mathematics 1001, Mathematics 2050, Physics 1051, Chemistry 1050, English 1090 or 1020 or 1000, Engineering 1010, 1020, 1030 and 1040
- an overall average of at least 65% in the above nine courses.

In order to remain in the engineering program, a student admitted to Engineering One must complete the requirements for promotion to academic term 3 before the end of the academic year following the academic year of admission. Therefore, a student in
Engineering One will have at most two years to complete all requirements for promotion to academic term 3.

**ASSIGNMENT TO ENGINEERING MAJOR**

Students in Engineering One are required to apply for their major by indicating their preferences for major on the major preference form submitted by the first day of classes for the spring semester in the year in which admission to term 3 is being sought.

Assignment to your preferred major is based on the following:

1. A student promoted to academic term 3 with an Engineering One promotion average of 75% and greater is guaranteed a preferred major.
2. A student who meets the promotion requirements and has an Engineering One promotion average of at least 70% will be guaranteed promotion to academic term 3.
3. A student who meets the promotion requirements and has an Engineering One promotion average of less than 70% will be promoted to academic term 3 as faculty capacity permits.

The Faculty reserves the right to limit the number of spaces available in each major. The Faculty also reserves the right to guarantee admission to a particular major at the time of admission to the engineering program.

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Engineering and Applied Science or email Cheryl Keough.
HUMAN KINETICS & RECREATION

The School of Human Kinetics and Recreation offers a wide range of degrees and the opportunity to participate in fascinating research. Their award-winning faculty share a belief in the value of physical activity, sport and recreation in improving the health and well-being of society.

The School of Human Kinetics and Recreation prides itself on its student-centered experiential approach to teaching, encouraging close working relationships among students, faculty, staff and local and national sport, health, and professional organizations. In other words, you won't just learn in the classroom. You'll learn everywhere.

Programs

- Bachelor of human kinetics and recreation co-operative
- Bachelor of kinesiology
- Bachelor of physical education (general or teaching)
- Bachelor of recreation

Why study human kinetics and recreation at Memorial?

The physical education and kinesiology programs are accredited by the Canadian Council of University Physical Education and Kinesiology Administrators and their recreation students consistently score higher than the national average on the National Council for Therapeutic Recreation Certification exam.

Co-op students have had full-time, paid work experiences in a variety of interesting and rewarding workplaces. You also have an opportunity to be part of international exchange programs.

The school offers a number of fellowships and a variety of research opportunities including the role of nature in health and physical activity, muscle fatigue and human performance. Many graduates of the school are leaders in the fields of physical education, sport, kinesiology, health and recreation.
Human Kinetics and Recreation Co-operative

The bachelor of human kinetics and recreation co-operative (BHKRC) is designed for those interested in planning their educational path to get where they want to go, preparing you for careers in a variety of health-related professions, including, but not limited to, health promotion, kinesiology, community and therapeutic recreation, fitness, health and wellness, and lifestyle professions.

This interdisciplinary program offers you the ability to choose between multiple pathways which include a progressive education and experiential learning. Co-operative education work terms provide you with the opportunity to explore your interests in the field of your choice and earn income to support your education.

As a BHKRC student, you will take fundamental courses in exercise science, health promotion and physical activity, in addition to pursuing your optional focused pathway.

Pathways

Tailoring your course selections to your interests, you can concentrate in one of these five areas:

- community recreation
- health promotion
- kinesiology
- physical education
- therapeutic recreation
Admission requirements

New Memorial students

You may apply for admission into the School of Human Kinetics and Recreation directly from high school by indicating your desired degree option in the appropriate place on the undergraduate application for admission.

Direct entry into the program from high school is competitive for a limited number of placements and is subject to meeting the general admission requirements for Memorial University.

Meeting the minimum admission requirements does not guarantee your acceptance into the program.

Current Memorial and transfer students

If you're seeking admission into the School of Human Kinetics and Recreation through transfer from within Memorial University or other accredited post-secondary institutions, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

Overall academic performance and evidence of ability to successfully maintain a full course load are important criteria in reaching decisions on applications for admission and will be considered in the selection process.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the School of Human Kinetics and Recreation or contact Penny-Lynn White.
Sample first year
Kinesiology pathway

Students completing the bachelor of human kinetics and recreation co-operative with the kinesiology pathway will normally take the following courses in first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKR 2000</td>
<td>HKR 2500</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>Mathematics 1000&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Physics 1020 or 1050</td>
</tr>
<tr>
<td>Chemistry 1050&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on a student’s background and ability. Students should refer to the math course criteria chart prior to selecting their first-semester course.

2. Selection of a chemistry course depends on a student’s background and ability. Students should refer to the chemistry course criteria chart prior to selecting their first-semester course.

Community recreation, health promotion, physical education and therapeutic recreation pathways

Students completing the bachelor of human kinetics and recreation co-operative with the pathway in either: community recreation, health promotion, physical education or therapeutic recreation will normally take the following courses in first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKR 2000</td>
<td>HKR 2500</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>Geography 1050</td>
<td>Sociology 1000</td>
</tr>
<tr>
<td>Biology 2040</td>
<td>Biology 2041</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
</tbody>
</table>

<sup>1</sup> Students without a background or who are not confident in mathematics may choose either Math 1010, 1030, 1040 or 1090.

<sup>2</sup> Students with a background or who are confident in mathematics may choose Math 1000, 1020, 1050 or 1090.
Kinesiology

The bachelor of kinesiology is designed for students interested in the science of human movement and exercise. It will prepare you for careers in ergonomics, fitness, health and wellness and lifestyle professions.

Admission requirements

New Memorial applicants

You may apply for admission into the School of Human Kinetics and Recreation directly from high school by indicating your desired degree option in the appropriate place on the undergraduate application for admission. Direct entry into the program from high school is competitive for a limited number of placements and is subject to meeting the general admission requirements for Memorial University. Meeting the minimum admission requirements does not guarantee your acceptance into the program.

In addition, you must have completed a grade 12 laboratory science with a final mark of 70% or greater and a grade 12 mathematics course, along with being eligible to register for Mathematics 1000, 1090 or 109A/B.

Current Memorial and transfer students

If you're seeking admission into the School of Human Kinetics and Recreation through transfer from within Memorial University or other accredited post-secondary institutions, indicate your desired degree option in the appropriate place on the undergraduate application for admission.
To be eligible for consideration for admission, you must have a cumulative average of 60% or an average of 65% on your last 30 credit hours. Overall academic performance and evidence of ability to successfully maintain a full course load are important criteria in reaching decisions on applications for admission and will be considered in the selection process.

Transfer applicants must submit an official transcript showing completed courses and current registrations to the Office of the Registrar. No applicant will be granted admission beyond academic term 4.

### Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the School of Human Kinetics and Recreation or contact Penny-Lynn White.

### Sample first year

Students pursuing a bachelor of kinesiology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKR 2000</td>
<td>HKR 2500</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>Mathematics 1000(^1)</td>
<td>Physics 1020 or 1050</td>
</tr>
<tr>
<td>Chemistry 1050</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on a student’s background and ability. Students should refer to the math course criteria chart prior to selecting their first-semester course. Mathematics 1000 must be completed prior to academic term 3.

2. Selection of a chemistry course depends on a student’s background and ability. Students should refer to the chemistry course criteria chart prior to selecting their first-semester course.
Physical Education

The bachelor of physical education degree is designed to prepare graduates for careers in teaching and related areas.

Teaching option

The teaching option contains courses in the fundamentals of physical education as well as courses in curriculum planning, teaching methods, and pedagogy relevant to physical education curricula for various grade levels. You will be placed in an educational setting for some of the course work.

Following completion of a physical education degree - teaching option, a student wishing to teach in a school setting will need to complete either the primary/elementary (as a second degree) or intermediate/secondary degree offered by the Faculty of Education.

General option

The general option is designed to provide basic professional preparation. This program option consists of courses common to the teaching option plus a flexible choice of complementary study courses.
Minor/Academic Discipline requirements

Among the required 10 three-credit hour complementary studies courses, you must complete a minimum of eight courses in a minor or an acceptable academic discipline.

Admission requirements

New Memorial students

You may apply for admission into the School of Human Kinetics and Recreation directly from high school by indicating your desired degree option in the appropriate place on the undergraduate application for admission. Direct entry into the program from high school is competitive for a limited number of placements and is subject to meeting the general admission requirements for Memorial University. Meeting the minimum admission requirements does not guarantee your acceptance into the program.

Current Memorial or transfer students

If you're seeking admission into the School of Human Kinetics and Recreation through transfer from within Memorial University or other accredited post-secondary institutions, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

Overall academic performance and evidence of ability to successfully maintain a full course load are important criteria in reaching decisions on applications for admission and will be considered in the selection process.

Additional documents required for admission

When applying to the bachelor of physical education program, you must also submit the following documents:

- A 250 word autobiographical statement highlighting your experiences with teaching and learning and demonstrating a commitment to leading a physically active lifestyle
- A current first aid certificate
- Complete a swim test conducted by the school or provide proof of completion of a Red Cross level 8 swim test or equivalent. Students applying from outside St. John's should call the School at (709) 864 8130 to contact the swim test coordinators and arrange for testing. Failure to complete the swim test before the end of October in your first semester will require you to withdraw from the program at the end of your first semester.
Sample first year

Students pursuing a bachelor of physical education will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>HKR 2000</td>
<td>HKR 2500</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>Mathematics 1000-level course(^1)</td>
<td>Mathematics 1000-level course(^1)</td>
</tr>
<tr>
<td>minor/academic discipline course</td>
<td>lab science course (biology, chemistry and physics are recommended)</td>
</tr>
</tbody>
</table>

1. Students who complete Mathematics 1000 in their first semester must include an additional three credit hours from a non-HKR course.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the School of Human Kinetics and Recreation or contact Penny-Lynn White.
Recreation

The bachelor of recreation is designed to provide students with the opportunity to develop professional competencies in recreation and leisure service management. The program prepares you to develop, plan and lead recreational activities in a variety of settings. The optional therapeutic recreation stream provides professional preparation for the practice of therapeutic recreation.

Admission requirements

New Memorial students

You may apply for admission into the School of Human Kinetics and Recreation directly from high school by indicating your desired degree option in the appropriate place on the undergraduate application for admission. Direct entry into the program from high school is competitive for a limited number of placements and is subject to meeting the general admission requirements for Memorial University. Meeting the minimum admission requirements does not guarantee your acceptance into the program.

Current Memorial or transfer students

If you're seeking admission into the School of Human Kinetics and Recreation through transfer from within Memorial University or other accredited post-secondary institutions, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

Overall academic performance and evidence of ability to successfully maintain a full course load are important criteria in reaching decisions on applications for admission and will be considered in the selection process.
Sample first year

Students pursuing a bachelor of recreation will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>HKR 2000</td>
<td>HKR 2500</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>Sociology 1000</td>
<td>Sociology 2000-level course</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>Geography 1050</td>
<td>non-HKR complementary study course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the School of Human Kinetics and Recreation or contact Penny-Lynn White.
HUMANITIES AND SOCIAL SCIENCES

The Faculty of Humanities and Social Sciences is where you can study what fascinates you while pursuing a program that suits your aspirations both for learning and for meaningful work. It is a faculty where you can immerse yourself in human knowledge and understand how we got to where we are now - and where we might be going.

Programs

- Bachelor of arts
- International bachelor of arts
- Joint bachelor of arts and bachelor of commerce (co-operative)
- Joint bachelor of arts and bachelor of science
- Certificates
- Diplomas

Why study humanities and social sciences?

Pursuing an arts degree in the humanities and social sciences allows you to follow your passions, interests, and values while creating viable and wide-ranging career options. An arts degree is highly flexible and customizable and will enable you to learn about what matters to you and the world you live in, while providing you with a toolkit of practical skills. Our diverse environment and award-winning instructors will give you a global outlook that will be a key component of your future success.

What skills will you gain?

You can expect to sharpen your critical thinking skills, advance your leadership abilities, become a savvy researcher, strengthen your writing and presentation skills, be equipped to make innovative decisions and solve problems creatively, make connections between global problems and their solutions, and become a well-rounded individual.

As we move further into an increasingly connected and fast paced world, the ability to synthesize ideas, to be flexible and to utilize creative and social skills will become more and more valuable.
Bachelor of Arts

The general andhonours bachelor of arts degrees require the completion of a minimum of 120 credit hours, consisting of the following components:

- core requirements
- major program
- minor program
- electives

Core requirements

The core requirements are a set of courses required of all arts undergraduates that encourages a breath of foundational knowledge. These courses are in addition to what is required by each department to fulfill the requirements for a major, minor or other area of academic interest.

CRITICAL READING AND WRITING

Critical ready and writing (CRW) designated courses are designed to ensure that students develop university-level foundational knowledge and skills in critical reading and writing in the humanities and/or social sciences. Students must complete a minimum of six credit hours in foundational CRW courses, one of which must be offered by the Department of English and an additional three credit hours chosen from the following eligible courses:

Archaeology 1001, 1005, Classics 1001, English 1090 or the former 1080, 1191 or the former 1101, 1192 or the former 1102, 1193 or the former 1103, 1110, Folklore 1005, Gender Studies 1005 or the former 2005, German 1010, History 1005, 1007, 1009-1015, 1300, 1301, Philosophy 1010, 1011, Political Science 1001, Religious Studies 1001.
LANGUAGE STUDY

Language study (LS) designated courses are designed to ensure that students develop university-level foundational knowledge of the structure of a language other than English, and to foster awareness of the inherent link between language and cultural literacy. You must complete a minimum of six credit hours in LS courses, in the same language. chosen from one of the following languages: Ancient Greek, French, German, Hebrew, Innu-aimu, Inuktitut, Italian, Japanese, Latin, Mandarin Chinese, Russian, Sanskrit, Spanish or another language that may be offered by the Faculty. If your first language is not English and you do not meet the standards for entry into regular first-year English courses, you may use English 1020 and 1021 to fulfill this requirement. You will be permitted to complete up to an additional six credit hours in Department of English CRW courses at the 1000 level in order to fulfill the CRW requirement.

QUANTITATIVE REASONING

Quantitative reasoning (QR) designated courses are designed to ensure that students develop university-level foundational knowledge and skills in numeracy, quantitative analysis, logical reasoning involving numbers, and/or the graphical representation of data. You must complete a minimum of six credit hours in QR courses. Eligible Humanities and Social Sciences courses: Archaeology 2450, Economics 1010, 1020, 2550; Geography 1050, 2102, 2195, 2302; History 2000; Linguistics 2210, 3850; Philosophy 2030, 2211; Political Science 3010, 3350; Sociology 3040, 3041.

Eligible Faculty of Science courses (limited to disciplines for which there is a Humanities and Social Sciences Major): Computer Science 1000-level and 2000-level courses; Mathematics 1000-level courses, 2050; Psychology 2910, 2911, 2920; Statistics 1510, 2500, 2550.

BREADTH OF KNOWLEDGE

Breadth of knowledge ensures that you have exposure to courses in a variety of disciplines and interdisciplinary areas of study within the humanities and social sciences. You must complete one course from a minimum of six of the following areas of study: anthropology, archaeology, classics, communications studies, economics, English, folklore, French, gender studies, geography, German, history, law and society, linguistics, medieval studies, philosophy, police studies, political science, religious studies, Russian, sociology and Spanish. Humanities and/or social sciences courses used to meet the
CRW, LS, and QR requirements and/or the student’s major or minor requirements may also be used towards this requirement.

**Major and minor requirements**

The BA major is a concentrated area of study involving 36 to 45 credit hours. In addition to a major, you must complete either an eligible minor, a second major, or a joint major program. Students who choose a joint major program will have requirements reduced by three credit hours in each major as prescribed in the program’s regulations, found in each individual program’s Calendar entry.

All BA students must complete at least one of the major or minor programs in a subject that is considered humanities or social sciences.

If you are completing a major in an interdisciplinary program, you must complete a minor or a second major in a non-interdisciplinary program.

**Majors**

- anthropology
- archaeology*
- classics
- communication studies^
- economics*
- English (specialization in theatre/drama available)
- folklore
- French
- gender studies
- geography
- German
- history
- law and society^
- linguistics
- medieval studies^*
- philosophy
- police studies^*
- political science* (concentrations in Canadian government and global studies available)
- religious studies
- Russian
- sociology
- Spanish

You can also choose to complete a BA major in these subjects, housed in the Faculty of Science:

- computer science*
- mathematics
- psychology*
- statistics

* Co-op available

^ Interdisciplinary - must be combined with a minor or a second major from a single discipline
Minors

- anthropology
- archaeology
- classics
- economics
- English
- folklore
- French
- gender studies
- geography
- German
- history
- law and society
- linguistics
- medieval studies
- philosophy
- political science
- religious studies
- Russian
- sociology
- Spanish

A minor may also be chosen in:

- business administration
- Faculty of Science subject areas
- international business
- music and culture
- music history

Students pursuing a bachelor of arts will normally take the following courses in their first year. If you have chosen a major, you should follow the sample first year for that program.

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course from major subject area</td>
</tr>
<tr>
<td>major program course</td>
<td>major program course</td>
</tr>
<tr>
<td>language study (LS) course¹</td>
<td>LS course¹</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective course (breadth of knowledge encouraged)</td>
<td>elective course (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Humanities and Social Sciences or email Renée Shute
International Bachelor of Arts

The international bachelor of arts (iBA) is designed to prepare students for a future as global citizens.

The iBA program is designed for those who are interested in the study of global dynamics and worldwide issues from the perspective of the Humanities and Social Sciences. The program’s objectives are to provide knowledge and analytical skills essential for research and work on cultural, economic, political, religious and social processes on a global scale.

The iBA differs from the existing bachelor of arts (BA) in that it requires additional designated international studies courses and language study courses, although both the iBA and BA require completion of 120 credit hours.

You are also required to reside outside of Canada for a period of time during the program by either (1) participating in a Memorial field school or studying at a non-Canadian institution or (2) participating in an international work placement outside of Canada.

Within the 120 credit hours required for the International Bachelor of Arts (iBA), a student must complete a major program and either an eligible minor, a second major, or a joint major program.

Future course offerings

The Faculty of Humanities and Social Sciences posts anticipated future course offerings to help you plan your degree.
Majors

- anthropology
- archaeology
- classics
- communication studies*
- economics
- English
- folklore
- French
- gender studies
- geography
- German
- history
- law & society*
- linguistics
- medieval studies*
- philosophy
- police studies*
- political science
- religious studies
- Russian
- sociology
- Spanish

* Interdisciplinary - must be combined with a second major or minor in one of: anthropology, archaeology, classics, economics, English, folklore, French, gender studies, geography, German, history, linguistics, philosophy, political science, religious studies, Russian, sociology, Spanish.

A student completing one of these major programs must complete an additional major program from a single discipline offered in the Faculty of Humanities and Social Sciences: anthropology, archaeology, classics, economics, English, folklore, French, gender studies, geography, German, history, linguistics, philosophy, political science, religious studies, Russian, sociology, Spanish.

Minors

- anthropology
- archaeology
- classics
- communication studies*
- economics
- English
- folklore
- French
- gender studies
- geography
- German
- history
- law & society*
- linguistics
- medieval studies*
- philosophy
- political science
- religious studies
- Russian
- sociology
- Spanish

* Interdisciplinary - must be combined with a major from a single discipline offered in the Faculty of Humanities and Social Sciences.

Major programs available in the iBA whose courses are offered by the Faculty of Science are:

- computer science
- pure mathematics
- psychology
- statistics
A minor may also be chosen in:

- business administration
- Faculty of Science subject areas
- international business
- music and culture
- music history

A student completing one of these minor programs must complete a major from a single discipline offered in the Faculty of Humanities and Social Sciences.

Admission requirements

New Memorial and transfer students

You may apply for admission into the iBA program directly from high school by indicating international bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty from high school is subject to you meeting the general admission requirements for Memorial University.

You may choose your intended major at the time of application or you can explore your options and declare a major in a later semester.

Graduation requirements for the iBA are slightly higher than those of the regular BA.

Current Memorial students

You can declare the iBA degree by emailing reghelp@mun.ca, normally in your first or second year. You should also consult with the academic program manager Renée Shute and the international exchange coordinator Natalie Spracklin before declaring iBA, as it may not be possible to complete the requirements for the degree in the normal time.

Students pursuing the international bachelor of arts will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>major program course</td>
<td>major program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR)</td>
<td>QR course</td>
</tr>
<tr>
<td>elective (international studies course recommended)</td>
<td>elective (IS course recommended)</td>
</tr>
</tbody>
</table>
Degree requirements

An international bachelor of arts (iBA) degree requires the completion of 120 credit hours which include:

- major or honours program
- minor, second major or joint major program
- core requirements of the bachelor of arts
  - breadth of knowledge
  - critical reading and writing (CRW)
  - language study (LS)
  - quantitative reasoning (QR)
- additional university-level LS courses
- international studies (IS) courses
- participation in either an international study or internship placement requiring residency outside of Canada

Additional language study requirements

You must complete 12 credit hours in LS courses as outlined by the Faculty’s LS requirements:

- six credit hours in university-level study of a single language to satisfy the LS requirement
- six additional credit hours in eligible LS courses

International studies course requirements

You must complete a minimum of 24 credit hours in designated IS courses as outlined by the Faculty's IS requirements.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional information please visit the Faculty of Humanities and Social Sciences or contact Renée Shute.
Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts

The joint degrees of bachelor of commerce (co-operative) (B.Comm. (Co-op)) and bachelor of arts (BA) can be completed in five years, although careful planning is required. Some of the normal degree requirements have been relaxed in order to complete both programs in a minimum of 150 credit hours and graduate with both degrees at the same convocation.

This program is designed to provide students with valuable work experience to complement knowledge learned in the classroom. The co-operative component alternates academic study terms with periods of full-time employment, equating to one full year of work experience.

These work terms may be in industry, government or other organizations and give students an opportunity to apply classroom learning while developing professional networks and gaining valuable, practical experience for today's business environment. With a 100% placement rate for co-operative business work terms, graduates of the program gain a diverse set of skills and abilities that make them sought after employees.

Students are encouraged to seek academic advice early in their program by contacting the Faculty's Academic Programs Office.
Structure of the degree

<table>
<thead>
<tr>
<th>YEAR</th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Terms A/B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>AT 1</td>
<td>AT 2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>AT 3</td>
<td>WT 1</td>
<td>AT 4</td>
</tr>
<tr>
<td>4</td>
<td>WT 2</td>
<td>AT 5</td>
<td>WT 3</td>
</tr>
<tr>
<td>5</td>
<td>AT 6</td>
<td>AT 7</td>
<td></td>
</tr>
</tbody>
</table>

AT - Academic Term; WT - Work Term

Students should follow the academic and work term schedule outlined in the Calendar.

Admission requirements

New Memorial students

You may apply for admission into the first year (Terms A/B) of the B.Comm. (Co-op) directly from high school. To apply, indicate the Faculty of Business Administration as your faculty and the B.Comm. (Co-op) Terms A/B as your program of study in the appropriate place on the undergraduate application for admission. Direct entry into the faculty from high school is subject to meeting the general admission requirements for Memorial University and admissibility into Mathematics 1000, 1090 or 109A/B.

Once admitted to the university, students may email reghelp@mun.ca and request the BA be added to their application as a second degree.

Promotion to Term 1

To be promoted to Term 1, you must complete the following 30 credit hours (10 courses) in Terms A/B:

- Business 1000
- Economics 1010 and 1020
- English 1090 and 1110 (or 1020 and 1021)
- Mathematics 1090 and 1000 (or 1000 and three credit hours in a non-business elective)
- Nine credit hours in non-business electives

You must achieve a minimum overall average of 65% on these 10 courses to be promoted to Term 1.

In order to fit the requirements of both degrees within a five-year period, it is strongly recommended that non-business elective courses are selected to meet specific BA requirements. Language study courses and courses in the intended major should round out the first-year program.
Current Memorial and transfer students

If you are a current Memorial University student or are transferring from another post-secondary institution, you may apply for admission with advanced standing to Terms 1, 2, 3 or 4. Admission with advanced standing beyond Terms A/B is competitive and limited. Transfer students must complete at least one semester with five three-credit hour courses before applying for admission into the program. It is recommended that current and transfer students consult with an academic advisor to determine their pathway of admission into the program.

To apply for admission to the B.Comm. (Co-op) beyond Terms A/B, indicate the Faculty of Business Administration as your faculty and the B. Comm. (Co-op) as your program of study in the appropriate place on the undergraduate application for admission.

Students may then email reghelp@mun.ca and request the BA be added as a second degree.

While a 65% overall average enables eligibility to the program, it does not guarantee admission. Further information about applying for advanced standing can be found on the Faculty of Business Administration website.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Business Administration and the Faculty of Humanities and Social Sciences, or contact Ashley Holloway or Renée Shute, respectively.
Sample first year

In order to fit the requirements of both degrees within a five-year period, students are advised to follow the suggested sample program.

It's recommended that students contact the Faculty’s Academic Programs Office for academic advising early in their program.

Students pursuing joint degrees of bachelor of commerce (co-operative) and bachelor of arts will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>TERM A/FALL SEMESTER</th>
<th>TERM B/WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090 or 1000</td>
<td>Mathematics 1000 or (BA Core Requirement course)</td>
</tr>
<tr>
<td>Economics 1010 or 1020</td>
<td>Economics 1010 or 1020</td>
</tr>
<tr>
<td>English 1090 (or 1020)</td>
<td>English 1110 (or 1021)</td>
</tr>
<tr>
<td>Business 1000</td>
<td>BA core requirement course</td>
</tr>
<tr>
<td>BA major program course</td>
<td>BA major program course</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. Students should refer to the math course criteria chart prior to selecting a first-semester course. Math 1000 is required for the B.Comm.(Co-op.) program. Students may take Math 1090 in the fall semester and Math 1000 in the winter semester, or Math 1000 in the fall semester and a BA core requirements course in the winter semester.
2. These courses may be taken in any order in either semester.
3. For the BA, students must complete a minimum of six credit hours in the study of a single language, other than English. Students whose first language is not English and who do not meet the standards for entry into regular first-year English courses may use English 1020 and 1021 to fulfill this requirement. Such students are permitted to complete up to an additional six credit hours in Department of English Critical Reading and Writing courses at the 1000 level in order to fulfill the Critical Reading and Writing Requirement.
4. Business 1000 may be taken in either semester.
5. By the end of your first year, you should discuss your program with the head of the department of your intended major program to make sure that the required courses will be available within the constraints of course scheduling and prerequisites.
Joint Degrees of Bachelor of Arts and Bachelor of Science

Students who wish to simultaneously pursue a bachelor of arts and a bachelor of science may do so by completing a minimum of 135 credit hours in courses. A minor program is not required; however, you may complete the requirements for a minor, or an additional (third) major. The joint degree is available to all major programs offered by the Faculty of Science and the Faculty of Humanities and Social Sciences.

Careful planning of courses is crucial to ensure timely completion of the program. If you are pursuing a major outside of computer science, economics, geography, psychology, pure mathematics or statistics should pay special attention to course planning and selection to ensure that the major requirements are met within the required 135 credit hours.

Students enrolled in this joint degree program, or who plan to enroll in this program, are strongly encouraged to consult regularly with appropriate academic advisors in both the Faculty of Science and the Faculty of Humanities and Social Sciences.

You must satisfy all program requirements before you may be granted either the bachelor of arts degree or the bachelor of science degree, and must graduate with both degrees at the same convocation.
Admission requirements

You may apply for admission into the Faculty of Science by indicating Bachelor of Science on the undergraduate application for admission. Direct entry into the faculty is subject to meeting the general admission requirements for Memorial University.

Entry into a specific major normally requires the completion of at least 10 three-credit courses at the university level and some majors are competitive for a limited number of placements. Upon completion of the required courses, normally at the end of your first year, you can apply for a major.

Degree requirements

The minimum of 135 credit hours for the joint degree of bachelor of arts and bachelor of science shall include:

- a major program from the Faculty of Humanities and Social Sciences and the interdisciplinary arts majors, with the exception computer science, mathematics and statistics, and psychology majors
- a major program from the Faculty of Science, with the exception of economics and geography
- the BA core requirements, including six credit hours in mathematics courses to meet the quantitative reasoning requirement
- six credit hours in courses from each of two sciences other than mathematics
- a total of at least 78 credit hours in courses offered by departments within the Faculty of Humanities and Social Sciences
- a total of at least 78 credit hours offered by departments within the Faculty of Science
- Credit hours earned in computer science, economics, geography, mathematics and statistics, and psychology may be eligible to simultaneously satisfy a requirement for the BA and B.Sc.
- no more than six credit hours in courses offered by a faculty or school other than the Faculty of Humanities and Social Sciences or the Faculty of Science

Notes:

1. Admission into the major programs will follow the regulations of the appropriate faculty and department.
2. While the program is available to all major programs offered by the Faculty of Humanities and Social Sciences and the Faculty of Science, students pursuing a major outside of computer science, economics, geography, psychology, pure mathematics or statistics should pay special attention to course planning and selection to ensure that this requirement is met within the required 135 credit hours.
Sample first year

Students pursuing the joint degrees of bachelor of science and bachelor of arts will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Critical reading and writing (CRW)</td>
</tr>
<tr>
<td>Math 1000 or 1090¹</td>
<td>Math 1001 or 1000¹</td>
</tr>
<tr>
<td>BA major program course</td>
<td>BA major program course</td>
</tr>
<tr>
<td>B.Sc. major program course</td>
<td>B.Sc. major program course</td>
</tr>
<tr>
<td>BA or B.Sc. course²</td>
<td>BA or B.Sc. course²</td>
</tr>
</tbody>
</table>

Notes:

1. The choice of a mathematics course will depend on the major program(s) chosen.
2. You should consult with an academic advisor to discuss whether a BA or B.Sc. course should be selected.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Humanities and Social Sciences and Faculty of Science, or connect with Renée Shute or Shannon Sullivan, respectively.
Certificates & Diplomas

The Faculty of Humanities and Social Sciences develops and administers certificate and diploma programs for those who wish to build on their skills relative to current best practices and theories. The programs also provide an excellent starting point for further university studies or act as a valuable adjunct to a bachelor of arts or any other degree program at Memorial.

Certificates

- Ancient Languages
- Criminology
- Film Studies
- Food Studies
- Indigenous Studies
- Newfoundland and Labrador Studies
- Public Policy

Diplomas

- Ancient Worlds
- Creative Writing
- Environmental Humanities
- Humanities
- Stage and Screen Technique
- Police Studies
Anthropology

Anthropology is the study of the origins of human beings and their culture worldwide. In addition to documenting a particular culture, anthropologists are interested in how and why human cultures change. Anthropology students at Memorial University will focus on core concepts, theoretical perspectives and case studies while examining a wide range of issues that exist in the contemporary world.

Why study anthropology?

Anthropology courses provide a strong background if you intend to specialize in any of the social sciences and humanities or in medicine, nursing, social work, education, law, business, government and many other fields which require a cross-cultural understanding of human behaviour.

Anthropology at Memorial

Our Faculty have addressed a wide range of important topics, including the Northern Ireland Peace Process, the political transformation that took place in Spain after the fall of Franco’s fascist regime, the politics of authenticity in Newfoundland’s fishing and tourism industries, historical memory of the Vietnam war, issues of development in Latin America, and social and political struggles over access to ocean spaces and resources.
Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose anthropology as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Anthropology or contact the undergraduate liaison.

Sample first year

Students pursuing a bachelor of arts with a major in anthropology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Anthropology 1031</td>
<td>three credit hours chosen from Anthropology 2410-</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR)</td>
<td>QR course</td>
</tr>
<tr>
<td>course</td>
<td></td>
</tr>
</tbody>
</table>
Archaeology

Archaeology studies past human culture through the material left behind, including physical objects, bones, plants, building foundations, and landscapes such as settlements.

Within archaeology there are several areas of specialization. Bioarchaeology concentrates on how human beings acquired their present form and behaviour by tracing human evolution. Historical archaeology is the study of documented cultures since the 16th century. Prehistory is the study of ancient civilizations and hunter-gatherer societies.

Archaeology at Memorial

Memorial University has the only archaeology department east of Alberta. Archaeology students at Memorial regularly participate in digs throughout the province. Our department specializes in the North Atlantic and the Canadian Subarctic. Faculty interests range from the study of ancient Native cultures, through the historical archaeology of European expansion, to downed Second World War aircraft.

Experiential learning is at the heart of the archaeology major. You can expect to participate in field work, train in state-of-the-art laboratory techniques, and gain experience with the conservation and care of collections.

The Department of Archaeology offers a co-operative education option to archaeology majors. Admission to the co-op option is competitive for a limited number of places.

Program Information

Faculty/School: Faculty of Humanities and Social Sciences
Department: Archaeology
Degree: Bachelor of Arts
Campus: St. John's
Honours Option: Yes
Co-op Available: Yes
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
**Admission requirements**

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University. You may choose archaeology as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Archaeology or contact Dr. Oscar Moro Abadia.

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**Sample first year**

Students pursuing a bachelor of arts with a major in archaeology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Archaeology 1001 or 1005 (CRW)</td>
</tr>
<tr>
<td>Archaeology 1000</td>
<td>Archaeology 2480</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>
Classics

Classics is the study of the ancient Greek and Roman civilizations from which our own modern civilization has developed and which continue to influence and shape our modern world. Students in classics study Greek and Roman societies in all their aspects including language, literature, history, philosophy, science and technology.

Classics at Memorial

Classics is the oldest academic discipline, with its traditions stretching back into antiquity itself. Modern western culture grows from these ancient roots, and knowledge of classical antiquity provides students with a broad cultural vocabulary, which helps in understanding western literature, laws and cultural institutions.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose classics as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.
Sample first year

Students pursuing a bachelor of arts with a major in classics will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Classics 1001 (CRW)</td>
</tr>
<tr>
<td>Classics 1120 or 1130</td>
<td>Classics 1121 or 1131</td>
</tr>
<tr>
<td>classics 1000-level course</td>
<td>classics 1000-level course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR)</td>
<td>QR course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Classics or contact the undergraduate liaison.
Communication Studies

The study of communications addresses many contemporary questions. Who controls the media and why? What shape does communication take in today’s global world? What are the different media technologies and at whom are they targeted? Communication studies addresses these questions and others as it critically examines the role and development of communication in modern society.

Communication studies at Memorial

The communication studies major has been one of the fastest growing programs at Memorial since its introduction in 2010. As an interdisciplinary program it provides exposure to courses in various disciplines within the Faculty of Humanities and Social Sciences.

Communication studies is housed in the Department of English.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University. You may choose communication studies as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.
Sample first year

Students pursuing a bachelor of arts with a major in communication studies will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
</tbody>
</table>
Economics

Economics is a versatile field that deals with the analysis and management of production, distribution and consumption of goods and services. Economics gives us the analytical tools to understand questions such as how prices are determined, why some people are unemployed, why interest rates rise and fall, and why products are traded between nations.

Economics at Memorial

Memorial offers major, minor and honours programs leading to either a bachelor of arts (BA) or bachelor of science (B.Sc.) in economics.

We also offer applied economics courses in a wide variety of areas, including fishery, petroleum and mining, forestry, environmental, development, international, monetary, public sector, welfare, labour and health economics.

Students who study economics at Memorial can choose to complete the major as part of a bachelor of arts or bachelor of science degree and may choose to complete the Economics Co-operative Education Option (ECEO).

Program Information

Faculty/School: Faculty of Humanities and Social Sciences
Department: Economics
Degree: Bachelor of Arts or Bachelor of Science
Campus: St. John's
Honours Option: Yes
Co-op Available: Yes
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
Admission requirements

Admission to the major for BA students

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose economics as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Admission to the major for B.Sc. students

If you're interested in completing economics as a science major, apply for admission into the Faculty Science by indicating bachelor of science as your program choice on the undergraduate application for admission. Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

To apply declare the economics major, you must complete 30 credit hours (10 courses), including the following:

- six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English
- six credit hours in mathematics
- six credit hours in economics
- six credit hours in a second science subject, other than mathematics and economics

Upon completion of these courses, you should contact the Department of Economics to declare the major.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, please visit the Department of Economics or contact Dr. Nikita Lysenko.
Sample first year

Students may major in economics as part of a bachelor of arts or bachelor of science program.

Bachelor of arts with a major in economics

Students pursuing a bachelor of arts with a major in economics will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Economics 1010</td>
<td>Economics 1020</td>
</tr>
<tr>
<td>Mathematics 1090(^1)</td>
<td>Mathematics 1000(^1)</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS)</td>
<td>LS course</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course.

Bachelor of science with a major in economics

Students pursuing a bachelor of science with a major in economics will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 1010</td>
<td>Economics 1020</td>
</tr>
<tr>
<td>Mathematics 1000(^1,2)</td>
<td>Mathematics 1001(^1,2)</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Computer Science 1000</td>
<td>a second computer science course</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course.
2. If you are completing Mathematics 1090/1000, you will be required to complete Mathematics 1001 as well.
3. You are required to complete six credit hours in CRW courses, including at least three credit hours in English courses.
English

The study of English focuses on two activities - reading and writing. In some courses, students may concentrate on writing. In others, the emphasis will be on reading and interpretation. But rarely are reading and writing separated. A degree in English is invaluable training in how language works.

English at Memorial

In the Department of English you will encounter ideas, both new and old, and texts, both experimental and traditional. You will read some of the best works in literature and culture, and you will engage in provocative conversations about meaning, literary history, the future, your identity and your place in the world. All of our programs are designed to help you think critically, read closely, and write effectively.

The Department of English offers select courses on Memorial’s Harlow Campus in England. Live theatre, literary landscapes, social justice in the arts: you can find all that and more across the pond at Harlow.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

Program Information

Faculty/School: Faculty of Humanities and Social Sciences
Department: English
Degree: Bachelor of Arts
Campus: St. John's
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
You may choose English as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

**Sample first year**

Students pursuing a bachelor of arts with a major in English will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>English 1191, 1192, 1193 or 1110 (CRW)</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of English or contact the undergraduate liaison.
Folklore

Folklore is the study of the oral and written traditions, beliefs, myths, tales and practices of a people. While folklorists study traditions passed down through generations, they also consider expressive elements found in popular culture and media. Many look at modern phenomena, from urban legends to jokes, from hockey culture to skateboarding, from Ouija boards to tourism.

Folklore at Memorial

As the only Anglophone university in Canada to offer comprehensive folklore programs at all levels, Memorial provides folklorists with rich opportunities for innovative community partnerships and learning experiences.

Our Department of Folklore has built an international reputation as a thriving, imaginative, eclectic and highly professional department. Ethnographic field research practices are fundamental to folklore studies.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose folklore as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

**Sample first year**

Students pursuing a bachelor of arts with a major in folklore will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Folklore 1000</td>
<td>Folklore 2100</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>Folklore 2401</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
</tbody>
</table>

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Folklore or contact the undergraduate liaison.
French

The French language is more than a thousand years old and has created one of Europe's greatest cultures. Much of the world's finest philosophy, cinema, history, science and literature are in French. French is one of Canada's official languages and is indispensable for anyone seeking a national career in any field. Having a second (or third!) language is a huge asset in an increasingly competitive global marketplace.

French at Memorial

All students majoring in French are required to participate in an immersion experience. Study abroad opportunities include the Frecker Program in Saint-Pierre-et-Miquelon, the Canadian third-year in Nice, and the Université de Bretagne Sud.

The Frecker program is a total immersion program in St. Pierre-et-Miquelon where students will enrol in five Memorial University French courses and live with a French family. The program is offered every fall semester and, when resources permit, in winter semester as well.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose French as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.
Sample first year

Students pursuing a bachelor of arts with a major in French will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>French 1501&lt;sup&gt;1-3&lt;/sup&gt;</td>
<td>French 1502&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR)</td>
<td>QR course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>breadth of knowledge course</td>
</tr>
</tbody>
</table>

1. Selection of a French course depends on your background and ability in French. You should refer to the French course criteria chart prior to selecting your first-semester French course.
2. If you are unsure of the course to select, or have difficulty registering for your intended French course, you should contact the Department.
3. When choosing first-year French courses, you should keep in mind that you may want to take advantage of the Frecker Program in second year. Admission to this program is competitive based on your final grades from French 1502.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Modern Languages, Literatures and Cultures or contact the undergraduate liaison.
Gender Studies

The gender studies major offers you the opportunity to explore gender in society. It addresses gender and gender relations and practical tools for promoting equality.

Gender studies courses lead to new knowledge and understanding and provide a critical edge for thinking about everyday situations (such as literature, advertisements and reality television), current events (such as political conflicts), and always changing social and political issues (such as the movement of people, products and money across borders).

In addition to being a discipline in itself, gender studies is an important area of study in disciplines such as literary theory, drama studies, film studies, religious studies, performance theory, art history, anthropology, sociology and psychology.

Gender studies at Memorial

Gender studies at Memorial allows you to develop a framework for thinking about power relations connected to social constructions of gender, race, class, sexuality, ability, age and nationality through multiple perspectives and theories.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose gender studies as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

### Sample first year

Students pursuing a bachelor of arts with a major in gender studies will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Gender Studies 1005 (CRW)</td>
</tr>
<tr>
<td>Gender Studies 1000</td>
<td>Gender Studies 2006</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
</tbody>
</table>

### Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Gender Studies or contact the undergraduate liaison.
Geography

Geography literally means description of the Earth — its physical and human components and how they vary spatially. Geography studies the inter-relationships of climate, landforms, plants, animals and humans over the surface of the Earth.

Geographers are more than map-makers (though they are that, too). They are planners, researchers, environmentalists, educators and decision makers whose interests focus on some of society’s most pressing questions.

Geography at Memorial

We offer major, minor and honours programs leading to either a bachelor of arts (BA) or bachelor of science (B.Sc.) in geography. In addition, joint programs are offered in:

- computer science/geography (B.Sc. major and honours)
- Earth sciences/geography (B.Sc. honours)

Admission requirements

Admission to the major for BA students

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose geography as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.
Admission to the major for B.Sc. students

If you're interested in completing geography as a science major, apply for admission into the Faculty of Science by indicating bachelor of science as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

To declare the geography major, you must complete 30 credit hours (10 courses), including the following:

- Geography 1050
- six credit hours in 2000-level geography courses
- six credit hours in critical reading & writing (CRW) courses, including at least three credit hours in English

Upon completion of these courses, you should contact the Department of Geography to declare the major.

Sample first year

Students may major in geography as part of a bachelor of arts or bachelor of science program.

Bachelor of arts with a major in geography

Students pursuing a bachelor of arts with a major in geography will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Geography 1050</td>
<td>geography 2000-level course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>breadth of knowledge course</td>
</tr>
</tbody>
</table>
Bachelor of science with a major in geography

Students pursuing a bachelor of science with a major in geography will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090\textsuperscript{1}</td>
<td>Mathematics 1000\textsuperscript{1}</td>
</tr>
<tr>
<td>Geography 1050</td>
<td>geography 2000-level course</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>first of two courses in a second science discipline</td>
<td>second of two courses in a second science discipline</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

1. You may complete Mathematics 1000 in the fall semester and an elective in the winter semester; or Mathematics 1050 and 1051. The completion of Mathematics 1000 as one of the mathematics courses will allow for greater choice in the selection of geography courses, particularly third and fourth year physical geography, GIS, cartography, and remote sensing courses.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Geography or contact the undergraduate liaison.
German

If you are planning to enter a profession or career that might involve a European context, German is an excellent language to learn. Not only is German the language of many great thinkers, artists and scientists, it also plays a central role in many contemporary economic, political and cultural developments.

German at Memorial

German is housed in the Department of Modern Languages, Literatures and Cultures.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose German as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Program Information

Faculty/School: Faculty of Humanities and Social Sciences
Department: Modern Languages, Literatures and Cultures
Degree: Bachelor of Arts
Campus: St. John’s
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
Sample first year

Students pursuing a bachelor of arts with a major in German will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td></td>
<td>German 1010 recommended</td>
</tr>
<tr>
<td>German 1000</td>
<td>German 1001</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective (Linguistics 1155 recommended)</td>
<td>breadth of knowledge course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Modern Languages, Literatures and Culture or contact the undergraduate liaison.
History

Everything we see around us of human construction, from constitutions to popular culture, is a product of our history. The discipline of history provides an opportunity to develop research and writing skills through the study of fascinating aspects of our past.

The study of history fosters a critical understanding of the past as it relates to our present-day experience. From the depth of recorded history, this program constructs a timeline of human events that teaches us where we came from and illuminates where we are going.

History at Memorial

Our department sees history as a foundational discipline within the liberal arts and social science traditions, one that develops key research, writing and analytical skills, but also promotes knowledge and memory of the past as essential to an engaged citizenry.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

Program Information

Faculty/School: Faculty of Humanities and Social Sciences
Department: History
Degree: Bachelor of Arts
Campus: St. John's
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
You may choose history as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

**Sample first year**

Students pursuing a bachelor of arts with a major in history will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>History 1000-level course (CRW)</td>
<td>English 1090</td>
</tr>
<tr>
<td>breadth of knowledge course</td>
<td>history 2000-level course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
</tbody>
</table>

**Contact information**

For assistance with course selection, students should contact the Academic Advising Centre.

For additional program information, visit the Department of History or contact the undergraduate liaison.
Law and Society

Laws are fundamental to any successful society. Law and society is the study of the place of these laws in social, political, economic and cultural life. Throughout history, as communities and countries have struggled to define and serve justice, social, cultural, and legal institutions have been essential. By studying how legal and social systems are interconnected and how law is woven into communities, students gain an understanding of what happens when legal instruments and institutions succeed and when they fail.

Law and society at Memorial

The law and society major encompasses many diverse disciplines of study, among them anthropology, linguistics, philosophy, political science, police studies and sociology. It introduces you to different facets of law and the role of law in society through the ages.

The law and society major is housed in the Department of Political Science.
Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose law and society as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Political Science or contact Dr. Scott Matthews.

Sample first year

Students pursuing a bachelor of arts with a major in law and society will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Law and Society 1000</td>
<td>Law and Society 2000 or another course toward major</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>
Linguistics

Linguistics is the scientific study of human language, including language structure, language variation, language change, the development of language, as well as the psychology and biology of language. Linguistics applies analytic methods to different facets of language, like childhood acquisition of language, sound patterning in language, and the ways in which social groups use language.

Linguistics at Memorial

Memorial has the only linguistics department in Atlantic Canada. The department emphasises data-driven, theoretically informed inquiry into language structure, aboriginal languages, language variation and change, and language acquisition. Memorial is host to exceptional in-house data archives, broad library holdings and state-of-the-art labs and analytical tools.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose linguistics as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

**Sample first year**

Students pursuing a bachelor of arts with a major in linguistics will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Linguistics 1100 or 1155</td>
<td>Linguistics 1103 or 1104</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR)</td>
<td>QR course</td>
</tr>
<tr>
<td>course</td>
<td></td>
</tr>
</tbody>
</table>

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Linguistics or contact the undergraduate liaison.
Medieval Studies

Medieval studies is the integrated study of the historical and cultural period known as the Middle Ages. The influence of this period, between Antiquity and the Modern Age, is wide-ranging. Studying the Middle Ages helps you to understand the historical developments in science, law, literature, art, architecture, and philosophy that, in addition to helping us understand these fields today, are also worth studying on their own merits. Studying the Middle Ages can also shed light on the origins of particular contemporary issues concerning religion, women, and conflict with and within the Middle East.

Medieval studies at Memorial

The medieval studies program is interdisciplinary, meaning that core courses are drawn from a number of different departments at Memorial. This integration of the methods and subject matter of several disciplines mirrors the pluralistic and inter-religious framework of the age.

The Queen Elizabeth II Library offers an array of journal holdings, including original 15th century manuscripts.

The medieval studies program is housed in the Department of Philosophy.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

Program Information

Faculty/School: Faculty of Humanities and Social Sciences
Department: Philosophy
Degree: Bachelor of Arts
Campus: St. John’s
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
You may choose medieval studies as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Sample first year

Students pursuing a bachelor of arts with a major in medieval studies will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Medieval Studies 1000</td>
<td>Medieval Studies 2001 or 2002</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Philosophy or contact the undergraduate liaison.
Philosophy

Philosophy is the study of general and fundamental problems concerning matters such as existence, knowledge, truth, beauty, law, justice, validity, mind and language. Philosophers aim to understand reality, clarify the nature of interactions between individuals and society, and to come to terms with problems of existence and ultimate value.

Philosophy at Memorial

Memorial’s Department of Philosophy aims to develop students’ intellectual abilities through examining different answers that philosophers have given to fundamental questions in order to develop a critical and systemic approach toward investigating reality and experience that relies on reasoned arguments.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose philosophy as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

**Sample first year**

Students pursuing a bachelor of arts with a major in philosophy will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Philosophy 1010 or 1011 (CRW)</td>
</tr>
<tr>
<td>Philosophy 1000-level course</td>
<td>Philosophy 2010, 2020 or 2030</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
</tbody>
</table>

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, please visit the Department of Philosophy or contact the undergraduate liaison.
Police Studies

Police studies is the academic study of the different facets of police institutions and practices through which students understand the legal, political, and social influences shaping policing and its impacts on crime and society.

Police studies at Memorial

The major in police studies is intended to promote critical thinking about social issues in a policing environment. This program would be beneficial if you have a scholarly interest in policing, corrections or law enforcement. It has been specifically designed to address the demands of police work, with many courses available through distance learning. The major in police studies does not constitute a qualification in policing.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose police studies as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Sample first year

Students pursuing a bachelor of arts with a major in police studies will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Police Studies 1000</td>
<td>Police Studies 2200 or 2300</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS)</td>
<td>LS course</td>
</tr>
<tr>
<td>course</td>
<td>QR course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Sociology or contact the undergraduate liaison.
Political Science

Political science is the systematic study of politics. Political scientists consider not only the structure and operations of government, but also public opinion, political parties and elections, and the way in which they interact with governments and shape the policies they make.

**Political science at Memorial**

Memorial's Department of Political Science has research strengths in public policy, European and international politics, as well as elections, campaigns and voting, particularly in Canada. Students who work towards a B.A. honours or major have the option of concentrating in Canadian government or in global studies. You can also gain job experience in a work internship, pursue a co-op degree, or spend a semester in Europe.

The Department of Political Science offers a co-operative education option available to political science majors. Admission to the co-op option is competitive for a limited number of places.

**Admission requirements**

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose political science as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Sample first year

Students pursuing a bachelor of arts with a major in political science will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Political Science 1001 (CRW)</td>
</tr>
<tr>
<td>Political Science 1000</td>
<td>minor program course</td>
</tr>
<tr>
<td>minor program course</td>
<td>LS course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>Breadth of knowledge course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>elective</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Political Science or contact the undergraduate liaison.
Religious Studies

Religious studies is the scientific exploration of religion. It neither upholds a particular set of religious beliefs, nor seeks to debunk any of them. Rather it strives to understand the many and varied ways people in the past and present express themselves in a religious manner. In our program you can examine specific religious traditions like Buddhism, Confucianism, Christianity, Daoism, Hinduism, Islam and Judaism. You can also study a wide range of religious behaviour as expressed in popular culture, arts, and ritual as well as how religion manifests in connection with science, politics, law, and contemporary ethical issues.

Religious studies at Memorial

Memorial is home to the largest religious studies department in Atlantic Canada. The wide range of courses offered includes opportunities for language study in Mandarin, Biblical Hebrew and Sanskrit.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose religious studies as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Sample first year

Students pursuing a bachelor of arts with a major in religious studies will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>Religious Studies 1001 (CRW)</td>
</tr>
<tr>
<td>Religious Studies 1000</td>
<td>religious studies 1000 or 2000-level course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>LS course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Religious Studies or contact the undergraduate liaison.
Russian

Russian is one of the five official languages of the United Nations and is the native language of 142 million citizens of the Russian Federation.

Russian at Memorial

The Russian major combines learning the Russian language and developing a specialization in various aspects of Russian culture, literature and contemporary issues, relevant to the importance of Russia as a world power in the 21st century. Students can avail of study abroad and internship opportunities in Russia.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose Russian as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.
Sample first year

Students pursuing a bachelor of arts with a major in Russian will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course (German 1010 recommended)</td>
</tr>
<tr>
<td>Russian 1000</td>
<td>Russian 1001</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective (Linguistics 1155 recommended)</td>
<td>elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Modern Languages, Literatures and Cultures or contact the undergraduate liaison.
Sociology

Sociology explores patterns of human social life and examines the development, structuring, and organization of societies in all their historical and current diversity. Sociologists seek to understand how people live, think, feel, and believe in the ongoing processes that maintain and shift society and culture. Through understanding the social forces, structures and relationships that shape our world, sociology allows us to see why and how things are as they are, and how everything could be otherwise. Sociology is therefore central to understanding institutions, organizations, social policy, inequality, privilege, social problems and social change.

Sociology at Memorial

The Department of Sociology is the largest in Atlantic Canada, and our faculty regularly engage with communities and social issues right here in Newfoundland and Labrador. Our department has research strengths in the sociology of work, occupational health, immigration, culture, theory, gender, sexuality, technology and society, political sociology, social and economic development, the environment, deviance and criminology.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.
You may choose sociology as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.

Sample first year

Students pursuing a bachelor of arts with a major in sociology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Sociology 1000</td>
<td>sociology 2000-level course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>language study (LS) course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Sociology or contact the undergraduate liaison.
Spanish

If you speak Spanish you can communicate with nearly 500 million people in the world. Spanish is one of the most important languages in the economy, politics and culture of our hemisphere. It is the second language of the United States and is becoming popular in established economic powers such as China and emerging ones like Brazil and India. Knowing Spanish will give you greater job opportunities in the labour market.

Spanish at Memorial

Students are offered opportunities to study abroad, including, among others, exchange programs in Chile, Colombia and Spain. For information about these international opportunities and application process, please contact natalie.spracklin@mun.ca.

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences by indicating bachelor of arts as your program choice on the undergraduate application for admission. Direct entry into the faculty is subject to your meeting the general admission requirements for Memorial University.

You may choose Spanish as your major at the time of application or you can explore your options and declare a major in a later semester by emailing reghelp@mun.ca to make your choice official.
Sample first year

Students pursuing a bachelor of arts with a major in Spanish will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Spanish 1000</td>
<td>Spanish 1001</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>QR course</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Modern Languages, Literatures and Cultures or contact the undergraduate liaison.
MEDICINE

A post graduate program that requires the completion of four years of study after the completion of a bachelor's degree. Upon successful completion, students will be matched to a residency program.

The Faculty of Medicine at Memorial University of Newfoundland offers 19 postgraduate training programs in the following disciplines:

- Anatomical pathology
- Anesthesia
- Diagnostic radiology
- Family medicine with enhanced skills in
  - Care of the elderly
  - Care of under-served populations
  - Emergency medicine
- General surgery
- Internal medicine and subspecialties
  - General internal medicine
  - Medical oncology
  - Nephrology
- Neurology
- Obstetrics/gynecology
- Orthopedic surgery
- Pediatrics
- Psychiatry and subspecialties
  - Child and adolescent psychiatry
  - Geriatric psychiatry

Program Information

Faculty/School: Faculty of Medicine
Degree: Doctor of Medicine (M.D.)
Campus: St. John's
Honours Option: No
Co-op Available: No
Duration: 4 years
Intake: Fall semester only
Application Deadline: Check the Faculty of Medicine’s Admissions Important Dates page
Supplementary Application: Yes
Admission requirements

If you intend to complete the doctor of medicine program, you are required to complete a bachelor’s degree from an accredited institution and the Medical College Admission Test (MCAT). The undergraduate degree can be in any discipline.

All applicants are screened by an admissions committee that considers the applicant’s academic background, performance on the MCAT, and information regarding an applicant’s personal characteristics and achievements as described by the applicant, the applicant’s references and by personal interviews.

All applicants must write the MCAT a minimum of 14 days prior to the application deadline date which can be found under Important Dates in the Faculty of Medicine website.

Admission to the program is competitive for a limited number of placements (80 placements total). Most placements are reserved for residents of Newfoundland and Labrador (including three placements for Aboriginal applicants) plus some reserved specifically for residents of Prince Edward Island and New Brunswick. The remaining seats are open to other national and international students. International students who are graduates from the MD program are not eligible to apply to CaRMS.

Contact information

For additional information please contact:

Faculty of Medicine
Admissions Office
Telephone: 1 (855) 633-9800
or (709) 864-6328
munmed@mun.ca
www.med.mun.ca/admissions
Bachelor of Music

The bachelor of music is a four year program that combines the highest musical excellence in an intimate setting of student and faculty collaboration. From day one you will experience close mentorship to fast track your musical development, professional opportunities to build your career, and a program that equips you with the skills, knowledge and courage to create your musical career.

To best serve your musical ambitions, tailor your program through the following majors:

- Performance
- Composition
- Musicologies (includes music history, world music, jazz and popular music)
- Joint major in musicologies and performance
- Major in performance with a minor in composition
- General music studies
- Comprehensive major (prepares students for specialized study in music education)

Students accepted to the bachelor of music have the option to pursue a joint bachelor of music and bachelor of business administration degree.

Minor in jazz studies

Students who are working toward a bachelor of music are able to accumulate credits towards a minor in jazz studies after completing a successful audition in their second year.
Admission requirements

You may apply for admission into the School of Music directly from high school by indicating School of Music - bachelor of music in the appropriate place on the undergraduate application for admission. Direct entry into the program is subject to you meeting the general admission requirements for Memorial University and demonstrating your excellence through your application, audition and music literacy tests. The bachelor of music is competitive for a limited number of placements. Meeting the minimum admission requirements does not guarantee your acceptance into the program.

If you're interested in the bachelor of music program, we encourage you to apply in your final year of high school. However, if you're not ready to pursue a music degree in your first year, you may defer your application and enroll in music elective courses that can provide excellent preparation for the first year of the program, covering topics in music history and music theory.

Application fee

In addition to the University’s general application fee, applicants are required to pay a music supplementary application fee of $40 CAD.

Additional documents required for admission

Your application to the bachelor of music will require you to submit the following:

- statement of your musical experience and career objectives (included as part of the online application)
- musical teacher reference form
- performance audition (on site or remotely)
- series of tests for musical literacy and competency

The School of Music provides full details on supporting documents required for admission.

Auditions are held in February. Late auditions may be scheduled if spaces are available after the February auditions.
Sample first year

Students pursuing a bachelor of music degree will normally take the following courses in their first semester:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music 140A</td>
<td>2</td>
</tr>
<tr>
<td>Music 2611 or Music 2612</td>
<td>1</td>
</tr>
<tr>
<td>Music 2613, 2615, 2619, or 2620</td>
<td>1</td>
</tr>
<tr>
<td>Music 1005</td>
<td>3</td>
</tr>
<tr>
<td>Music 1107^2</td>
<td>3</td>
</tr>
<tr>
<td>Music 1117^3</td>
<td>1</td>
</tr>
<tr>
<td>Music 1700</td>
<td>1</td>
</tr>
<tr>
<td>electives (to bring the total to 15-18 credit hours)^4^6</td>
<td>1 - 3</td>
</tr>
<tr>
<td>English 1090 or a critical reading and writing (CRW) course (Faculty of Humanities and Social Sciences)</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Students will be placed in one of these ensemble courses during each semester in which they are enrolled in Principal Applied Study. The assignment will be based on their ensemble audition, the appropriateness of the ensemble for the student’s musical development and program of study, and the need to create balanced ensembles.

2. Prerequisite: Successful completion of the Theory Assessment. If unsuccessful, students should register for Music 1105. Co-requisite: Music 1117

3. Prerequisite: Successful completion of the Theory Assessment. Co-requisite: Music 1107

4. Electives may be chosen from: a) Music courses, such as Music 2700 (Lyric Diction - a required course for students whose applied study is voice), 2612-2620 (ensembles in addition to those listed above), 3500/3511 (Chamber Music - permission of the instruction), or b) Disciplines other than music.

5. You should be aware that you will be required to take Functional Keyboard I (Music 2401) in second year. In order to register for Music 2401, students must pass the Piano Proficiency Test. Students who have not yet passed the Piano Proficiency Test are expected to take private lessons in piano at their own expense in their first year.

6. Students admitted to the bachelor of music program are permitted to register for a maximum of 18 credit hours per semester, without requiring written permission of the dean.
Students choosing to defer their application, but intend to pursue a **bachelor of music**, will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>CREDIT HOURS</th>
</tr>
</thead>
<tbody>
<tr>
<td>One of Music 2011, 2012 or 2014¹</td>
<td>3</td>
</tr>
<tr>
<td>Music 1105²</td>
<td>3</td>
</tr>
<tr>
<td>electives: One of Music 2611 - 2620 and/or course from disciplines other than music³</td>
<td>maximum of 6</td>
</tr>
<tr>
<td>English 1090 or another critical reading &amp; writing (CRW) course (Faculty of Humanities and Social Sciences)</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Credit for Music 2011, 2012 and 2014 may not be used to meet the requirements of the Bachelor of Music degree.
2. Music 1105 is reserved for students who have been admitted into the Bachelor of Music program. Students who are not in the program may be permitted to register for the course if space is available. Such students should contact the **School of Music**.
3. Students planning to apply for admission to the conjoint degrees program in music education are encouraged to take at least six credit hours in a second teachable subject.

**Contact information**

For assistance with course selection, contact the **Academic Advising Centre**.

For additional program information, visit the **School of Music** or contact **Dr. Ian Sutherland**.
Joint Degrees of Bachelor of Music and Bachelor of Business Administration

The joint bachelor of music (B.Mus.) and bachelor of business administration (BBA), is a five-year joint degree program, in which students complete, continuous undergraduate degree program in music learning and development including: applied studies and mentorship, ensemble performance, chamber music, musicologies, music theory (written theory and aural skills), music technology, and career skills. At the same time, they complete a full business degree program and develop knowledge and skills in business studies including: accounting, finance, marketing, branding, management, strategy, and entrepreneurship.

Completion of the joint degree significantly heightens the ability of graduates to pursue professional careers in music and related industries from entrepreneurial ventures (e.g. performance, composition, studio teaching, digital media) to professional and managerial work within established businesses and organizations.

Admission requirements

Students are normally admitted to the B.Mus. degree program at the beginning of the fall semester. Successful applicants may enter the joint program immediately in their first semester. All applications must be submitted to the Office of the Registrar. The deadline for applications is January 15.
All applicants must satisfy the general admission requirements of the university. In addition, they must demonstrate their musical competence and potential at an audition and through a series of diagnostic tests. Auditions are held in February (Toronto and Halifax) and March (St. John’s). Late auditions may be scheduled if spaces are available after the March auditions. Applicants may also audition by distance through video or videoconferencing means. Detailed information on audition requirements can be found in the entrance information available from the School of Music.

Application fee

In addition to the University’s general application fee, applicants are required to pay a music supplementary application fee of $40 CAD.

**Sample first year**

Students pursuing joint degrees of bachelor of music and bachelor of business administration will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>TERM A/FALL SEMESTER</th>
<th>TERM B/WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business 1000</td>
<td>Business 1600</td>
</tr>
<tr>
<td>Mathematics 1090 or 1000¹</td>
<td>Economics 1010 or Mathematics 1000¹ (if not completed in fall)</td>
</tr>
<tr>
<td>Music 1005</td>
<td>English 1090</td>
</tr>
<tr>
<td>Music 140A</td>
<td>Music 140B</td>
</tr>
<tr>
<td>Music 1107²</td>
<td>Music 1006</td>
</tr>
<tr>
<td>Music 1117³</td>
<td>Music 1108</td>
</tr>
<tr>
<td>Music 1700¹</td>
<td>Music 1118</td>
</tr>
<tr>
<td>one credit hour chosen to meet ensemble credit requirements</td>
<td>one credit hour chosen to meet ensemble credit requirements</td>
</tr>
</tbody>
</table>

1. Students who are required to take Mathematics 1090 prior to Mathematics 1000 should complete Mathematics 1090 in Term 1, Mathematics 1000 in place of Economics 1010 in Term 2, and Economics 1010 in Term 4.
2. Prerequisite: Successful completion of the theory placement test. If unsuccessful, students should register
for Music 1120 in preparation for retaking the test. Co-requisite: Music 1117

3. Prerequisite: Successful completion of the theory placement and aural skills tests. Co-requisite: Music 1107

4. Music technology will give students skills in Finale notation software and basic audio recording and editing. Students should be aware that they will be required to take a functional keyboard course in second year. Students who do not pass the piano proficiency entrance diagnostic are expected to take private lessons in piano at their own expense in their first year to qualify for Music 2401.

Students who wish to deviate from the above curriculum, including students who wish to complete online courses or courses in the spring semester, intersession, or summer session, should consult with an advisor in the Faculty of Business Administration or the School of Music to ensure they do not experience unforeseen delays in completing the joint degrees program.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Faculty of Business Administration and School of Music, or contact Ashley Holloway or Dr. Ian Sutherland, respectively.
The bachelor of nursing (collaborative) program is designed to prepare entry-level nurses for careers in a variety of health care settings, as direct caregivers, educators, counselors, advocates, facilitators, coordinators of care, researchers, leaders and members of the nursing profession.

**Program options**

- Four-year option
- Three-year accelerated option (replacing the former fast-track option)
- LPN bridging option

**Why study nursing at Memorial?**

The four-year BN (collaborative) program is offered at three locations: Memorial University Faculty of Nursing (MUNFON) and Centre for Nursing Studies (CNS) both in St. John's; and Western Regional School of Nursing (WRSON) in Corner Brook. All three locations offer the same curricula, which combines innovative teaching strategies with hands-on practical experience.

The program is accredited by the Canadian Association of Schools of Nursing (CASN). This seven-year accreditation award is the highest that can be earned by Schools of Nursing in Canada.

The BN program offers a number of nursing practice experiences, including real and simulated client care experiences. By the time you graduate, you will have obtained over 1,600 hours of clinical experience; that's the highest number of clinical hours in the country.
What qualities/skills are expected from nursing students?

- Desire to help and care for others
- Ability to work as part of a team
- Strong problem-solving skills
- Critical thinking, organizational and leadership skills
- Excellent interpersonal and communication skills

All potential nursing students should read the Association of Registered Nurses of Newfoundland and Labrador (ARNNL) document Requisite Skills and Abilities for Entry-Level Registered Nursing Practice when considering nursing as a career choice.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Memorial University Faculty of Nursing, the Centre for Nursing Studies or contact the Undergraduate Nursing Admissions Office.
Bachelor of Nursing (four-year option)

This four-year option is open to students with a high-school diploma and those who have attended a post-secondary institution, including those who have completed undergraduate studies or who hold a bachelor's degree.

The four-year bachelor of nursing (collaborative) program is offered at:

- Memorial University Faculty of Nursing (MUNFON) in St. John's
- Centre for Nursing Studies (CNS) in St. John's
- Western Regional School of Nursing (WRSON) in Corner Brook

Admission requirements

Admission is subject to meeting the general admission requirements and does not guarantee your acceptance into the program. Priority for admission is given to residents of Newfoundland and Labrador.

Up to three seats per year are reserved specifically for applicants of Aboriginal ancestry who have met the admission requirements but who are not in the top ranked candidates. Applicants wishing to be considered under this clause must check the appropriate space provided on the BN application form and provide documentation of Aboriginal ancestry.

Review the admission details below, and for further information, visit nursing admissions.
New Memorial students

You may apply for admission into the bachelor of nursing directly from high school by indicating bachelor of nursing (collaborative) on the undergraduate application for admission. Direct entry into the program from high school is competitive as there are a limited number of placements.

In addition to the general admission requirements, you must have completed:

- Math 3200 or 3201 (or equivalent)
- Biology 2201 and 3201 (or Grade 11 and 12 equivalents)
- Chemistry 3202 (or Grade 12 equivalent)

For out-of-province applicants who do not have Grade 12 social science or modern/classical language, an additional Grade 12 science course, other than biology or chemistry must be completed.

It is strongly advised that international applicants take courses at Memorial for two semesters before applying to the bachelor of nursing (collaborative) program. Please review the admission criteria, outlined below, for current Memorial students.

Current Memorial and transfer students

If you're seeking admission into the bachelor of nursing through transfer from within Memorial University or other accredited post-secondary institutions, indicate bachelor of nursing (collaborative) on the undergraduate application for admission.

If you've attended a post-secondary institution and haven't completed the required high school courses noted above, you must complete the following courses (or equivalents):

- Biology 1001 and 1002
- Chemistry 1010, 1050, 1051, 1200, 1001, or 1810 (Grenfell Campus)
- one university level mathematics course (excluding statistics courses)

Both biology courses must be taken at the same level (either high school or post-secondary), not a combination of high school or post-secondary.

You may choose to complete the following:

- six credit hours in English critical reading and writing (CRW) courses
- Psychology 1000
• three credit hours in either sociology, anthropology, or archaeology
• three credit hours in philosophy or Religious Studies 2610
• Statistics 1510 or 2500 (or equivalent) or Education 2900
• three credit hour elective course

Completion of non-nursing courses does not guarantee acceptance into the program. While these non-nursing courses are requirements of the bachelor of nursing (collaborative) program, they are not required to be completed before seeking admission to the program.

Additional documents required for admission

Your application to the bachelor of nursing will require you to submit the following:

• personal statement
• academic reference form
• documentation of Aboriginal ancestry (if applicable)

Sample first year

Students accepted to the bachelor of nursing (collaborative) program will normally take the following courses in their first year:

Centre for Nursing Studies

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
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<tbody>
<tr>
<td>Nursing 1002</td>
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<td>Nursing 1003</td>
<td>Nursing 1014</td>
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<tr>
<td>Nursing 1004</td>
<td>Nursing 1015</td>
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<tr>
<td>English 1090</td>
<td>Nursing 1016</td>
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<tr>
<td>Biochemistry 1430</td>
<td>Nursing 1520</td>
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<tr>
<td>Nursing 1017</td>
<td>(this is a one-credit course)</td>
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<td>FALL SEMESTER</td>
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<td>English 1090</td>
<td>Nursing 1016</td>
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<td>Nursing 1015</td>
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<td>Nursing 1017 (this is a one-credit course)</td>
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<tr>
<td>English 1000</td>
<td>Nursing 1520</td>
</tr>
<tr>
<td>Biochemistry 1430</td>
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</tbody>
</table>
**Students applying to nursing next year**

If you plan on applying to the bachelor of nursing (collaborative) program in the following year, you must complete the required biology and/or chemistry courses if you have not completed the required high school courses.

In addition, you may complete non-nursing courses which are required in the BN program, but are not required for admission. These courses include:

- six credit hours in an English critical reading and writing course
- Psychology 1000
- three credit hours in either sociology, anthropology or archaeology
- three credit hours in Philosophy or Religious Studies 2610
- Statistics 2500 (or STAT 1510, 2550, EDUC 2900, PSYC 2910, 2925), or a statistics course acceptable to the Faculty. Education 2900 is reserved for Education students. Students who have received credit for a minimum of 18 credit hours may be able to register for this course if space permits once the reserves are lifted. Psychology 2910 is reserved for students admitted into the psychology major program.
- three credit hours in electives

Completion of these non-nursing courses does not guarantee acceptance into the BN program. You should seek advice from the Academic Advising Centre prior to registering for the non-nursing courses.
Bachelor of Nursing (three-year accelerated option)

The accelerated option is available for students who have completed at least a full two-years (a minimum of 20 courses) of a university undergraduate program. This three-year option runs over eight consecutive semesters.

Admission requirements

Bachelor of Nursing (Collaborative) Accelerated Option applicants must:

- meet the admission requirements for the Bachelor of Nursing (Collaborative) Program listed under Admission Regulations for the BN (Collaborative) Program
- have successfully completed a minimum 60 credit hours in university level courses.

Courses must include 12 credit hours from the following list:

- 6 credit hours in Critical Reading and Writing (CRW) designated courses in English
- 3 credit hours in Sociology, Anthropology, or Archaeology
- Biochemistry 1430 or equivalent
- Biology 3053 or equivalent
- Psychology 1000 or equivalent
- Statistics 2500 (or Statistics 1510, 2550, Education 2900, Psychology 2910, 2925), or a statistics course acceptable to the Faculty
- 3 credit hours in Philosophy, or Religious Studies 2610

Program Information

Campus:
- Memorial University Faculty of Nursing (St. John's)
- Western Regional School of Nursing (Corner Brook)

Duration:
3 years

Intake:
Fall semester

Application Deadline:
Feb. 1
Please note that each of the courses listed above must be completed for the degree. Any of the courses listed above not completed prior to admission must be completed during the sequence of the program.

You must have a GPA of 3.0 or higher.

The primary criterion used in reaching decisions on applications for admission to the BN (Collaborative) Program (Accelerated Option) is overall academic achievement to date. Relevant work and volunteer experience, personal achievements listed, and references are also considered. Since the accelerated option is full-time and continuous, the Admissions Committee will review the applicant’s transcript for evidence that the applicant has the ability to complete 12-credit hour course loads and achieve grades at least as high as those required to meet promotion requirements on those course loads. Applicants whose transcripts do not demonstrate this ability or whose overall academic records are below this standard are unlikely to be admitted.

To apply for admission into the three-year accelerated option, indicate bachelor of nursing (collaborative) in the appropriate place on the undergraduate application for admission and select the accelerated option from the drop-down menu.
The entry-to-practice doctor of pharmacy (Pharm.D.) program is designed to prepare students who are beginning their pharmacy education for careers primarily in community and hospital settings, as well as pharmaceutical industries, pharmacy organizations, and educational environments.

A graduate of the program will be eligible to apply to be licensed as a pharmacist across Canada after successful completion of provincial and national examinations.

**Admission requirements**

Direct admission from high school is not available for the entry-to-practice program. Offers of admission take into account academic grades and personal and professional characteristics. Assessment of interpersonal characteristics may involve a face to face interview and/or completion of an on-line computer based test. Priority for admission is given to applicants who are residents of Newfoundland and Labrador. One seat is reserved for an Aboriginal student from the province of Newfoundland and Labrador.

**Application fee**

In addition to the University’s general application fee, Canadian applicants are required to pay a pharmacy application fee of $125 CAD and international applicants $175 CAD.
In order to be eligible to the entry-to-practice Pharm.D. program you must successfully complete the following 10 prerequisite courses:

- Biology 1001 and 1002
- Chemistry 1050 and 1051 (St. John's campus) or Chemistry 1200 and 1001 (Grenfell campus)
- six credit hours in English or three credit hours in English and three credit hours in a Memorial University critical reading and writing (CRW) course
- Mathematics 1000 and 1001
- Physics 1020 or 1050 and Physics 1021 or 1051

**Contact information**

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the School of Pharmacy or contact Pharmacy Admissions.

**Sample first year**

Students interested in applying to the entry-to-practice doctor of pharmacy should take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER(^1,2)</th>
<th>WINTER SEMESTER(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>Physics 1020 (1050)</td>
<td>Physics 1021 (1051)</td>
</tr>
<tr>
<td>Chemistry 1050(^3)</td>
<td>Chemistry 1051(^3)</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>three credit hours in English</td>
<td>three credit hours in English or Memorial University critical reading &amp; writing (CRW)</td>
</tr>
</tbody>
</table>

1. If you are not eligible to take one or more of the required fall semester courses contact the Academic Advising Centre.
2. You should take five courses in both the fall and winter semesters. If you received transfer credit for Mathematics 1000, you should take another course in its place.
3. Students attending Grenfell Campus would normally complete Chemistry 1200/1001 in their first year.
As a student in the Faculty of Science at Memorial, you have an incredible science lab right outside your window. Whether you are interested in exploring the ocean beyond, the forests next door or the rocks under your feet, Memorial is uniquely positioned to bring science right to you.

After all, everything is science – and science is everything!

Programs

- Bachelor of science
- Joint degrees of bachelor of arts and bachelor of science

Why study science at Memorial?

A bachelor of science degree exposes you to the tools and techniques scientists use to discover, analyze, interpret and make predictions about subjects as small as sub-atomic particles and as large as the universe.

What skills will you gain?

Graduates of our science programs can move on to such diverse areas as teaching, industry, private consulting, science journalism, the civil service, environmental law, research and development or other exciting careers that might not even exist yet, requiring adaptable thinking in our complex and technical world.
Bachelor of Science

As a student in the Faculty of Science at Memorial, you have an incredible science lab right outside your window. Whether you are interested in exploring the ocean beyond, the forests next door or the rocks under your feet, Memorial is uniquely positioned to bring science right to you.

After all, everything is science – and science is everything!

The bachelor of science generally takes four years to complete. After one year of study, you may apply to your desired major program; you may also select a minor.

You can choose from a full range of majors, minors and joint programs to pursue your areas of interest while getting excellent preparation for graduate work or careers in your discipline.

Students who wish to declare more than one major should consult the joint program options listed in the links above. If no joint option exists, students can complete a double major by fulfilling all the requirements of two individual majors.

Admission requirements

You may apply for admission into the Faculty of Science by indicating bachelor of science in the appropriate place on the undergraduate application for admission.

Direct entry into the faculty is subject to meeting the general admission requirements for Memorial University. Entry into a specific major normally requires the completion of at least 10 three-credit courses at the university level and some majors are competitive for a limited number of placements. Upon completion of the required courses, normally at the end of your first year, you can apply for a major.

Program Information

Faculty/School: Faculty of Science
Campus: St. John's
Honours Option: Yes
Co-op Available: Yes (with majors as indicated)
Duration: 4 years
Intake: Fall, winter and spring semesters (may vary by major)
Application Deadline: Applications to the degree are considered on a rolling basis. Certain majors may have different deadline dates. Students are encouraged to apply to the degree by:
- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission
Supplementary Application: No
Majors

Students are encouraged to choose their major after finishing their first year of study.

- Applied mathematics
- Behavioral neuroscience*
- Biochemistry
- Biology*
- Chemistry
- Chemistry (biological)
- Computational Chemistry
- Computer science*
- Computer science (smart systems)
- Computer science (software engineering) - honours option*
- Computer Science (visual computing and games)
- Earth sciences
- Economics*
- Environmental physics
- Geography
- Marine Biology
- Nutrition
- Ocean Physics
- Ocean Sciences
- Ocean Sciences (environmental systems)
- Physics
- Psychology*
- Pure mathematics
- Statistics

* co-op available

Minors

An optional minor can be chosen from the following disciplines:

- Biochemistry
- Biology
- Chemistry
- Computer science
- Earth sciences
- Economics
- Geography
- Mathematics
- Oceanography
- Physics
- Psychology
- Statistics
- Sustainable aquaculture and fisheries ecology

A minor may also be chosen in:

- business administration
- Faculty of Humanities and Social Sciences subject areas
- international business
- music and culture
- music history
Laboratory Safety for Students

All students taking a course involving lab work and/or where they may handle or be exposed to hazardous materials must complete mandatory laboratory safety and Workplace Hazardous Materials Information System (WHMIS) training prior to entering labs. Courses requiring this training will have SC 1807 and SC 1808 listed as prerequisites.

This mandatory training is acquired by successfully completing two free, online courses, SC 1807 - Safety in Science Lab and SC 1808 - WHMIS.

SC 1807 and SC 1808 are offered online through Brightspace (online.mun.ca) and should take no longer than two hours to complete. Students taking courses requiring these prerequisites must first register for all their courses, including SC 1807 and SC 1808 through Memorial Self-Service. After registering it will take up to six hours to gain access to the Science 1807 and 1808 courses. Students can then access them online through Brightspace using their my.mun.ca login ID.

The courses each consist of a series of presentations followed by a quiz. In order to successfully complete the courses, a mark of at least 80 per cent must be achieved on the quizzes. Students who do not successfully complete SC 1807 and SC 1808 by the end of the add period in a semester will be de-registered from all their science lab courses requiring it. SC 1807 and SC 1808 only need to be completed once during undergraduate studies.

Any questions can be directed to labsafety@mun.ca.

Degree Programs

- Bachelor of Science
- Joint Degrees of Bachelor of Science and Bachelor of Arts

Honours degree

The Bachelor of Science Honours (B.Sc. (Hons.)) is also available in the major subject areas. Students should contact the undergraduate officer in their intended department for course and program advice if they are considering an honours degree.

Joint programs

A student may elect to do a joint major program or a joint honours program. Many current options are described in
the University Calendar, but other combinations are also possible. Students interested in a joint program should contact the department(s) involved for advice before they declare a major.

**Joint Degrees of Bachelor of Science and Bachelor Of Arts**

Students who wish to simultaneously pursue a Bachelor of Arts program and a Bachelor of Science program may do so by completing a minimum of 135 credit hours in courses. A minor program is not required; however, students may complete the requirements for a minor, or an additional (third) major.

Careful planning of courses is crucial to ensure timely completion of the program. Students enrolled in this program, or who plan to enroll in this program, are strongly encouraged to consult regularly with appropriate academic advisors in both the Faculty of Science and the Faculty of Humanities and Social Sciences. It may not be possible to complete the requirements for the joint degrees in the normal time if the decision to embark on the program is delayed.

Students must satisfy all program requirements before they may be granted either the degree of Bachelor of Arts or the degree of Bachelor of Science, and must graduate with both degrees at the same convocation. Additional information can be found in the *Humanities and Social Sciences* section.

The admission requirements and first-year sample programs for each major program are listed on the following pages.
Biochemistry

Biochemistry is the study of chemical processes associated with living organisms. Biochemists use concepts of biology, chemistry, physics, mathematics, microbiology and genetics to unravel the complex puzzles of life.

Nutrition

Nutrition is the science that studies the process of taking in and utilizing food for metabolism, growth and repair. Nutritionists study how foods are converted into simpler compounds used by the body, and how food choices can lead to greater overall health, or contribute to disease development.

Nutrition at Memorial

The nutrition program provides in depth courses on nutrient metabolism; later courses apply that knowledge to specialized topics in nutrition, such as nutrition and disease treatment or prevention, sports nutrition, or nutrigenomics (how nutrients affect gene expression). Many of our undergraduates become involved in research through the Memorial University Career Experience Program (MUCEP), Student Undergraduate Research Award (SURA) and other summer research programs. They do research in areas such as nutrition and the developing infant, the impact of dietary lipids (fat) in the brain, or the role of nutrition in early life and the development of chronic diseases.

In addition to the major and honours options in nutrition, a joint program is offered in nutrition/behavioural neuroscience (B.Sc. honours).
Biochemistry at Memorial

Many of our undergraduates become involved in research through the Memorial University Career Experience Program (MUCEP), Student Undergraduate Research Award (SURA) and other summer research programs. Undergraduates carry out research in areas such as, but not limited to, development of sea urchins and zebrafish, muscle biochemistry, lipid composition and molecular dynamics.

In addition to the major, minor and honours options in biochemistry, joint programs are offered in:

- biochemistry/cell biology (B.Sc. honours)
- biochemistry/chemistry (B.Sc. honours)
- biochemistry/physics (B.Sc. honours)
- biochemistry/behavioural neuroscience (B.Sc. honours)

Admission requirements

You may apply for admission into the Faculty of Science by indicating bachelor of science as your program choice on the undergraduate application for admission. Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

Admission to the major

Entry into the biochemistry major is based on academic standing. To be considered for admission to the major, you must have completed a minimum of 30 credit hours (10 courses), including the following:

- Mathematics 1000 and 1001 (or 1090 and 1000)
- Chemistry 1050 and 1051 (or 1010 and 1050)
- Physics 1050 (or 1020) and 1051 (or 1021) or Biology 1001 & 1002
- six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English.

You must successfully complete the courses mentioned above with a minimum overall average of 60%.

Upon completion of these courses, you must apply to the major. You are strongly recommended to apply by May 31 of their first year. Failure to apply by this date may result in your application not being processed before your registration time.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Biochemistry or contact Donna Hunt.
Sample first year

Students pursuing a bachelor of science with a major in biochemistry will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (1090) ¹</td>
<td>Mathematics 1001 (1000) ¹</td>
</tr>
<tr>
<td>Chemistry 1050 ²</td>
<td>Chemistry 1051 ²</td>
</tr>
<tr>
<td>Physics 1050 (1020) ³⁴</td>
<td>Physics 1051 (1021) ³⁴</td>
</tr>
<tr>
<td>Biology 1001 or elective ⁶</td>
<td>Biology 1002 or elective ⁴</td>
</tr>
<tr>
<td>English 1090 ⁵</td>
<td>critical reading and writing (CRW) course ⁵</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on a student’s background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course. If you’re completing Mathematics 1090/1000 will also be required to complete Mathematics 1001.

2. Selection of a chemistry course depends on your background and ability. You should refer to the chemistry course criteria chart prior to selecting your first-semester course. If you are not able to register for Chemistry 1050 in the fall semester, you can take Chemistry 1010 in the fall and Chemistry 1050 in the winter semester. In order to complete the biochemistry major within four years, review the following information about completing the first-year chemistry courses:
   - You must be eligible for Chemistry 2400 in the fall semester of second year.
   - All biochemistry majors must pass Chemistry 1051 with a grade of 60% or Chemistry 1001 with a grade of 60% as this is a prerequisite for Chemistry 2301 which must be completed in second year.
   - It is strongly recommended that Chemistry 1051 be completed before beginning the second year of studies. It will be possible to take Chemistry 1051 in the spring semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

3. Selection of a physics course depends on your background and ability. You should refer to the physics course criteria chart prior to selecting your first-semester course. If you’re registered in Physics 1050, you must also be registered in Mathematics 1000 (not 1090). If you’re registered in Physics 1051, you must also be registered in Mathematics 1001. It is recommended that students who wish to pursue future studies in biophysics or related fields or are considering postgraduate health professional programs take Physics 1050 as their first physics course.

4. Biochemistry majors are required to complete biology and physics. Although you may complete biology or physics along with an elective in first year, it is recommended that both biology and physics be taken in the first year with no elective.

5. You are required to complete six credit hours in CRW courses, including at least three credit hours in English. Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.
Biology

Biology is the study of life and of living organisms, including their structure, function, growth, origin, evolution and distribution. Of all the sciences, biology is perhaps the most closely related to everyday life. We are exposed daily to news and documentary reports on biological topics such as genetic engineering, environmental conservation, pollution, disease and immunology, social and behavioural interactions and population growth.

Biology at Memorial

We offer various field courses in biology at the Bonne Bay Marine Station, located near Gros Morne National Park, as well as in Terra Nova National Park in eastern Newfoundland and at Memorial’s Harlow Campus in England. Our programs offer tremendous field and laboratory research opportunities for undergraduate students.

In the biology program you have opportunities to become involved in laboratory research, such as through the Memorial Undergraduate Career Experience Program (MUCEP) and the NSERC Undergraduate Student Research Award (USRA) program.

Students pursuing a B.Sc. with a major in biology have the option to declare a concentration in one of the following areas:

- applied ecology and conservation
- aquatic life
- biological tools and techniques
- biology for health professions
- comparative biology
- evolutionary ecology
- molecular, microbial and cell biology
In addition to the major, minor and honours options in biology, joint programs are offered in:

- biology/behavioural neuroscience (B.Sc. honours)
- biochemistry/ cell biology (B.Sc. honours)
- biology/Earth sciences (B.Sc. honours)
- biology/psychology (B.Sc. honours)
- biology/statistics (B.Sc. honours)

The Department of Biology offers a cooperative education option available to biology majors. Admission to the co-op option is competitive for a limited number of places.

**Admission requirements**

You may apply for admission into the Faculty Science by indicating bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

**Admission to the major**

Entry into the biology major is competitive and based on academic standing. In order to apply for the biology major, you must complete a minimum of 30 credit hours (10 courses), including the following:

- Biology 1001 and 1002
- Mathematics 1090 and 1000 (or Mathematics 1000 and an elective)
- six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English
- Chemistry 1050 & 1051 or Physics 1020 (or 1050) and 1021 (or 1051)

You must complete Biology 1001 and 1002 with an average of at least 65% and have a minimum overall average of 60% in the courses mentioned above.

Students intending to major in biology must submit a departmental application form to the Department of Biology. Forms are usually submitted during the second semester. You will not be admitted to a biology major program until you have met the entrance requirements listed above.
Sample first year

Students pursuing a bachelor of science with a major in biology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090¹</td>
<td>Mathematics 1000</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1050²</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>Physics 1020 (1050)³</td>
<td>Physics 1021 (1051)³</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course⁴</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course. You may complete Mathematics 1000 in the fall semester and an elective in the winter semester, however you may elect to take Mathematics 1090 in preparation for Mathematics 1000.

2. Selection of a chemistry course depends on your background and ability. Students should refer to the chemistry course criteria chart prior to selecting their first-semester course. All Biology Majors are required to complete Chemistry 1050/1051. If you are not eligible to register for Chemistry 1050 in the fall semester, you can take Chemistry 1010 in the fall and Chemistry 1050 in the winter semester. It is strongly recommended that Chemistry 1051 be completed before beginning the second year of studies. It will be possible to take Chemistry 1051 in the spring semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

3. Selection of a physics course depends on your background and ability. You should refer to the physics course criteria chart prior to selecting your first-semester course. If you're registered in Physics 1050, you must also be registered in Mathematics 1000 (not 1090). The two first-year physics courses are required for the major in biology and should be completed in first year to avoid timetable conflicts that may arise in second year.

4. You are required to complete six credit hours in CRW courses, including at least three credit hours in English courses. Students attending Grenfell Campus will normally complete English 1000/1001.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information contact the Department of Biology or contact Jody Burke.
**Chemistry**

Chemistry is the science of the composition, structure, properties and reactions of matter, especially of atomic and molecular systems. The synthesis of new drugs, the production of novel materials and the monitoring and improvement of our environment all involve the science of chemistry. The modern-day subject of chemistry is a dynamically-changing science that is about cutting-edge discoveries and the use of state-of-the-art techniques and technologies that impact almost every aspect of human life and almost every aspect of the development of human society. It is easy to understand why the field of chemistry is often described as the central science.

**Chemistry (Biological)**

This is a chemistry degree with a solid base in biology which is designed specifically to prepare students for further specialization in the chemistry of biological systems but also serves as an appropriate background for graduate studies in any area of chemistry. The degree will also serve those students who wish to enter health related careers such as medicine and those who wish to pursue other chemistry related careers. The degree also provides two teachable subjects for students interested in teaching at the intermediate and secondary school levels.

**Computational Chemistry**

Computational chemistry uses computers and software to model the behaviour and properties of chemical systems, from individual atoms to the large proteins found in living things. These models lead to the design of molecules for new drugs and materials in medicine, and new ways to store and transport energy and information.
Chemistry at Memorial

The Department of Chemistry has state-of-the-art spectroscopic and other analytical instrumentation as well as high performance computer facilities such as ACEnet.

In addition to the major, minor and honours options in chemistry, joint programs are offered in:

- applied mathematics/chemistry (B.Sc. honours)
- biochemistry/chemistry (B.Sc. honours)
- chemistry/earth sciences (B.Sc. honours)
- chemistry/physics (B.Sc. honours)

Chemistry majors and honours students have the option to complete a minor in applied science (process engineering) through the Faculty of Engineering and Applied Science.

Admission requirements

You may apply for admission into the Faculty Science by indicating bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

Admission to the major

In order to declare the chemistry major, you must complete 30 credit hours (10 courses), including the following:

- six credit hours in chemistry
- six credit hours in mathematics
- six credit hours in physics (recommended) or six credit hours in another science other than mathematics
- six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English
- six credit hours in electives for the major in chemistry; Biology 1001 and 1002 for the major in biological chemistry; Computer Science 1001 and 1510 for the major in computational chemistry

You are expected to achieve a 65% average or better in your first-year chemistry, mathematics and physics courses.

Upon completion of these courses, you must contact the Department of Chemistry to declare the major. You are encouraged to complete these courses in your first two semesters. Exceptional students may be accepted as chemistry majors after one semester.
Sample first year

Students pursuing a bachelor of science with a major in chemistry, computational chemistry or chemistry (biological) will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000¹</td>
<td>Mathematics 1001¹</td>
</tr>
<tr>
<td>Chemistry 1050²</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>Physics 1020 (1050)³</td>
<td>Physics 1021 (1051)³</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course⁴</td>
</tr>
<tr>
<td>elective⁵</td>
<td>elective⁵</td>
</tr>
</tbody>
</table>

1. Students completing Mathematics 1090 in the fall semester are advised to take Mathematics 1000 in the winter semester and Mathematics 1001 in the spring semester in order to enable chemistry majors to take Chemistry 2301 in the fall semester of their second year.

2. Chemistry 1010 is a preparatory course for students who could not take Chemistry 3202 in high school or who achieved less than 65 per cent in Chemistry 3202. Students who take Chemistry 1010 in the fall semester should take Chemistry 1050 in the winter semester and Chemistry 1051 in the spring semester. Students who wait until the fall semester of their second year to take Chemistry 1051 can still complete a chemistry major in four years but will require careful planning of their program with the assistance of their faculty advisor.

3. Students can complete any of the following combinations of first year physics courses: Physics 1020 and 1021, Physics 1050 and 1051, Physics 1020 and 1051 and Physics 1050 and 1021. Students who complete the major in computational chemistry or the joint honours in physics and chemistry must complete Physics 1050 and 1051. Students registered in Physics 1050 must also be registered in (or have credit for) Mathematics 1000. Students registered in Physics 1051 must also be registered in (or have credit for) Mathematics 1001.

4. Students are required to complete six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses. Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.

5. Students wishing to major in computational chemistry should take Computer Science 1001 in the fall semester and Computer Science 1510 in the winter semester. Students wishing to major in chemistry (biological) should take Biology 1001 in the fall semester and Biology 1002 in the winter semester.
Selecting a first-year chemistry course

The first-year chemistry program consists of a number of two-course and three-course options depending on the:

- degree sought
- student's level of preparedness
- campus attended

Many degree programs will require students to complete General Chemistry I and II.

- Chemistry 1050/1051 (St. John’s campus)
- Chemistry 1200/1001 (Grenfell Campus)

To see the level of chemistry required for an intended program, students should view the full list of requirements found in the Calendar.

Students meeting the prerequisite for Chemistry 1050 are strongly encouraged to take this course in the fall semester. Chemistry 1010 is intended to prepare students for Chemistry 1050 and 1051 and should only be taken if a student does not have grade 12 chemistry or the equivalent, did not do well in grade 12 chemistry, or took grade 12 chemistry more than three or four years ago and requires a refresher.

Students who do require a preparatory course in the first semester, can follow a three-course plan:

- Chemistry 1010/1050/1051 (St. John’s campus)
- Chemistry 1810/1200/1001 (Grenfell Campus)

Students who intend to transfer to a program at another university are advised to complete General Chemistry I and II, as introductory courses may not be approved for transfer credit.

Students should be aware that only six science credit hours may be counted toward a major or honours in Chemistry from the following course groups:

- Chemistry 1010/1050/1051
- Chemistry 1810/1200/1001

Chemistry 1010 and 1810 may be used as science electives for students who complete the three-course plan.
Materials for Chemistry Courses

For labs, students will require a lab coat and lab glasses that are available at the MUN bookstore. The textbook used for the first year courses is the third Canadian edition of “Chemistry: A Molecular Approach”. Students planning to purchase a used textbook are advised to first speak with their instructor. Purchasing a used book may actually be more expensive than purchasing a textbook package from the bookstore because the package includes other materials such as Mastering Chemistry (online assignments) which is required for 1st year courses.

In some first-year classes, personal response systems (or clickers) are used for in-class participation. The instructor will advise students if a clicker is required. A cell phone, tablet, or laptop will serve as a clicker so students should ensure that they are connected to MUN’s wireless network.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional information, visit the Department of Chemistry or contact Dr. Barry Power.
Computer Science

Computer science deals with the theoretical foundations of information and computation, and with practical techniques for their implementation and application.

Virtually every discipline – practical, theoretical or creative – is experiencing the influence of computers. The ever-increasing dependence on computer technology in our daily lives presents rich opportunities for those interested in the design of new applications and systems. Every career can benefit from a deeper understanding of computing. The technology skills a major in computer science helps develop will make you indispensable and relevant no matter your position.

The smart systems major gives an overview of the growing body of algorithmic and mathematical techniques that have proven practical in allowing computer systems to deal with the complexities and uncertainties of both human beings and the real world.

The visual computing and games major studies how to use computers to both mimic human visual processing power for things such as object recognition, and to create visual content, like games and movies. Computer games also offer a great opportunity for computer scientists to learn and apply fundamental concepts of design and creation of interactive experiences and visual content.

Computer science at Memorial

We offer individual courses and full programs so any student can develop their computer skills and interest regardless of their career trajectory. Memorial’s Computer Industry Internship Option (CICS) provides an opportunity for you to obtain rewarding placements in computer industries. The internship program includes a paid placement of eight to 16 months so you can explore career options and develop workplace skills at the same time.
We offer major, minor and honours programs leading to either a bachelor of arts (BA) or bachelor of science (B.Sc.) in computer science, as well as a B.Sc. honours program in computer science (software engineering). Joint programs are available in:

- applied mathematics/computer science (B.Sc. major)
- computer science/economics (B.Sc. major)
- computer science/geography (B.Sc. major and honours)
- computer science/physics (B.Sc. major and honours)
- computer science/pure mathematics (B.Sc. major and honours)
- computer science/statistics (B.Sc. major and honours)

**Admission requirements**

You may apply for admission into the Faculty of Humanities and Social Sciences or the Faculty Science by indicating bachelor of arts or bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty from high school is subject to meeting the general admission requirements for Memorial University.

Admission to the major programs in the Department of Computer Science is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Department of Computer Science by June 1 for fall semester registration. To be eligible for admission, students must have normally completed 24 credit hours as listed below:

- Computer Science 1001, 1002
- Six credit hours in Critical Reading and Writing (CRW) courses, including at least 3 credit hours in English courses
- Mathematics 1000 and 1001 (or 1090 and 1000)
- six credit hours in other courses.

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.
Sample first year

Students pursuing a major in computer science as part of a bachelor of arts or a bachelor of science program will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Mathematics 1090 or 1000¹</td>
<td>Mathematics 1000¹ or 1001</td>
</tr>
<tr>
<td>Computer Science 1001</td>
<td>Computer Science 1002</td>
</tr>
<tr>
<td>elective³</td>
<td>Computer Science 1003²</td>
</tr>
<tr>
<td>elective³</td>
<td>elective³</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on your background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course. If you are completing Mathematics 1090/1000, you will be required to complete Mathematics 1001 as well.

2. Students who have not completed Computer Science 1003 in their first year will not be able to register for Computer Science 2001/2/3 in the fall of their second year.

3. Students completing a bachelor of arts should take courses toward a minor program and the BA core requirements. Students completing a bachelor of science will want to take two courses in a second science subject area and an elective in any other subject area.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Computer Science or contact the Undergraduate Advisor.
Earth Sciences

Earth sciences encompasses all scientific studies related to the structure and development of our planet, whether investigating the composition of rocks or soil on the Earth’s surface, the movement of plates or the properties of material far beneath our feet. Although field work plays an important role in many studies, today’s geoscientist commonly use ocean drilling vessels, satellite imagery, high-precision geochemical and geophysical instruments, and the latest in electronic and laser microscopes.

Earth sciences at Memorial

Memorial University has one of the largest and most diverse Earth sciences departments in Canada. You can choose a comprehensive stream, or specialize in applied geophysics; environmental geoscience; petrology, tectonics and economic geology; or sedimentary basins.

Many companies visit us annually to hire our students both for summer work and permanent positions. A significant proportion of our students become professional geoscientists.

In addition to the major, minor and honours options in Earth sciences, joint programs are offered in:

- biology/Earth sciences (B.Sc. honours)
- chemistry/Earth sciences (B.Sc. honours)
- Earth sciences/geography (B.Sc. honours)
- Earth sciences/physics (B.Sc. major and honours)
- geophysics/physical oceanography (B.Sc. honours)

Program Information

Faculty/School: Faculty of Science
Department: Earth Sciences
Degree: Bachelor of Science
Campus: St. John's
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:

- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission

Supplementary Application: No
Non-majors are welcome to explore a variety of course offerings:

- Earth Sciences 1000 Earth Systems
- Earth Sciences 1002 Concepts and Methods in Earth Sciences
- Earth Sciences 2150 The Solar System
- Earth Sciences 2916 Natural Hazards on a Dynamic Earth
- Earth Sciences 2917 Gems: the Science and Politics
- Earth Sciences 2918 Earth’s Story
- Earth Sciences 2919 Introduction to Marine Geology

**Admission requirements**

You may apply for admission into the Faculty of Science by indicating bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

**Admission to the major**

To be admitted to the earth sciences major, you must have successfully completed one three-credit hour course in each of the following subjects: English, mathematics, chemistry, physics, and Earth sciences. These courses must be first-year courses and selected from the list of required courses for the major program.

You must complete Earth Sciences 1000 and 1002 with a minimum grade of 55%, which is required for all second-year courses with Earth Sciences 1000 and 1002 as prerequisite courses.

Upon completion of these courses (normally in your second semester), you should contact the Department of Earth Sciences to declare the major.

Registration for the core second-year courses in Earth sciences normally requires that all of the sample first-year program courses be completed. It is possible to take Mathematics 1001 as a corequisite with second year courses in the fall of the second year of the program.
Sample first year

Students pursuing a bachelor of science with a major in Earth sciences will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (1090)(^1)</td>
<td>Mathematics 1001 (1000)(^1)</td>
</tr>
<tr>
<td>Chemistry 1050(^2)</td>
<td>Chemistry 1051(^2)</td>
</tr>
<tr>
<td>Physics 1020 (1050)(^3)</td>
<td>Physics 1021 (1051)(^3)</td>
</tr>
<tr>
<td>Earth Sciences 1000</td>
<td>Earth Sciences 1002</td>
</tr>
<tr>
<td>English 1090(^4)</td>
<td>critical reading and writing (CRW) course(^4)</td>
</tr>
</tbody>
</table>

1. If you are completing Mathematics 1090/1000, you will be required to complete Mathematics 1001 as well.
2. If you are not eligible to register for Chemistry 1050 in the fall semester, you can take Chemistry 1010 in the fall and Chemistry 1050 in the winter semester. Students attending Grenfell Campus for the first year of the program will normally complete Chemistry 1200/1001.
3. If you are pursuing a geophysics specialization within Earth sciences, you will be required to complete Physics 1051. If you complete Physics 1020 with at least 70%, you should take Physics 1051. If you are registered in Physics 1051, you must also be registered in, or have previously completed, Mathematics 1001. If you receive a grade less than 70% in Physics 1020, you should take Physics 1021. If you are registered in Physics 1050, you must also be registered in Mathematics 1000 (not 1090).
4. You are required to complete six credit hours in CRW courses, including at least three credit hours in English courses. Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Earth Sciences or contact Barry Power.
Marine Biology

Marine biology is the study of marine organisms, their behaviours and interactions with the environment. The marine biology major provides a wealth of experiential learning opportunities for students with a combination of wet labs, field trips and project-based courses. Get out of the classroom and into the sea at our Bonne Bay Marine Station or conduct your own marine project (under the watchful eyes of our resident harp seals) at the Ocean Sciences Centre.

Marine biology at Memorial

The joint major in Marine Biology is jointly administered by the Department of Ocean Sciences and the Department of Biology. It consists of core courses in oceanography and biology, and additional courses in various science subjects.

Each year we offer a number of exciting field courses at the Bonne Bay Marine Station, located in Gros Morne National Park on the west coast of the province. This world-class research and teaching facility is dedicated to marine ecology studies and has laboratories, boats, a resource centre, aquarium, multimedia theatre and residence accommodations.

Closer to St. John’s, with a dramatic view over Logy Bay, the Ocean Sciences Centre (OSC) is a state-of-the-art research and education facility located just 10 minutes from the main campus. The OSC has wet and analytical labs that support research on cold-ocean and deep-sea processes, aquaculture, biological oceanography, as well as marine ecology, physiology and biotechnology.

Note: students interested in a co-op in marine biology should contact the Department of Biology for further information.


**Admission requirements**

You may apply for admission into the Faculty Science by indicating bachelor of science as your program choice on the [undergraduate application for admission](#).

Direct entry into the Faculty of Science from high school is subject to meeting the [general admission requirements](#) for Memorial University.

**Admission to the major**

Entry into the joint major in marine biology is competitive and based on academic standing. To be considered for admission to the joint major in marine biology, you must complete the following 30 credit hours (10 courses), or their equivalents with an overall average of at least 60%:

- Biology 1001 and 1002
- Chemistry 1050 and 1051 (or 1200 and 1001)
- six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English
- Mathematics 1000
- Ocean Sciences 1000
- Physics 1020 (or 1050)
- Physics 1021 (or 1051) or one Ocean Sciences course at the 2000 level

Students must complete Biology 1001 and 1002 with a minimum average grade of 65%, Ocean Sciences 1000 with a minimum grade of 65%.

Students intending to major in marine biology must submit a [departmental application form](#) to the Department of Biology. Because of scheduling and course offerings, it will realistically take three semesters to complete all of these courses. You should contact the Department of Biology and the Department of Ocean Sciences at your earliest opportunity for academic advice.

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Sample first year

Students pursuing a bachelor of science with a joint major in marine biology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER¹</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1050²</td>
<td>Chemistry 1051²</td>
</tr>
<tr>
<td>English 1090³</td>
<td>CRW course³</td>
</tr>
<tr>
<td>Mathematics 1000</td>
<td>Physics 1020 (or 1050)</td>
</tr>
<tr>
<td>Ocean Sciences 1000</td>
<td>Ocean Sciences 2100</td>
</tr>
</tbody>
</table>

1. If you are not eligible to take one of more of the required courses in the fall semester, you should contact the Academic Advising Centre.
2. If you are not eligible to register for Chemistry 1050 in the fall semester, you can take Chemistry 1010 in the fall and Chemistry 1050 in the winter semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.
3. You are required to complete six credit hours in CRW courses, including at least three credit hours in English courses.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Ocean Sciences or contact Danielle Nichols.
Mathematics & Statistics

Applied Mathematics

Applied mathematics uses mathematics together with other fields such as physics, biology, chemistry or economics to make discoveries about the way the world works. It is also a desirable prerequisite for almost any area of learning since it can serve as an extremely effective tool for training in logical reasoning.

Pure Mathematics

Pure mathematics involves the study of the core areas of mathematics such as abstract algebra, number theory, geometry, and real and complex analysis. It is also a desirable prerequisite for almost any area of learning since it can serve as an extremely effective tool for training in logical reasoning.

Statistics

Statistics involves the modelling of data from virtually every field including biology, economics and finance, engineering, environmental science and medicine, and deals with inferences using mathematical tools and probability theory. It is also a desirable prerequisite for almost any area of learning since it can serve as an extremely effective tool for training in logical reasoning.

Program Information

Faculty/School: Faculty of Science
Department: Mathematics and Statistics
Degree: Bachelor of Science Bachelor of Arts (Pure Mathematics or Statistics)
Campus: St. John’s
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:

- March 1 for fall admission
- Oct. 1 for winter admission
- Feb. 1 for spring admission

Supplementary Application: No
Mathematics and statistics at Memorial

We employ undergraduate students in the Math Help Centre to mark course assignments. Some of our students qualify for summer research employment funded by the National Science and Engineering Research Council.

We offer major and honours programs leading to either a bachelor of arts (BA) or bachelor of science (B.Sc.) in pure mathematics and statistics. Applied mathematics may be studied as part of a bachelor of science (B.Sc.).

In addition to the major and honours options joint programs are offered in:

- applied mathematics/computer science (B.Sc. major)
- applied mathematics/economics (B.Sc. major)
- applied mathematics/physics (B.Sc. major and honours)
- applied mathematics/chemistry (B.Sc. honours)
- computer science/pure mathematics (B.Sc. major and honours)
- economics/pure mathematics (B.Sc. major)
- pure mathematics/statistics (B.Sc. honours)
- biology/statistics (B.Sc. honours)
- computer science/statistics (B.Sc. major and honours)
- economics/statistics (B.Sc. major)
- economics/statistics (B.Sc. major with co-operative program in economics)
- pure mathematics/statistics (B.Sc. honours)

Admission requirements

You may apply for admission into the Faculty of Humanities and Social Sciences or the Faculty Science by indicating bachelor of arts or bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty from high school is subject to meeting the general admission requirements for Memorial University.

Admission to the major

You cannot choose your major at the time of application. After completion of 15 credit hours of study, you may request permission to declare a major from the Department of Mathematics & Statistics.
Sample first year

Bachelor of arts with a major in pure mathematics or statistics

Students pursuing a bachelor of arts with a major in pure mathematics or statistics will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Mathematics 1000 (or 1090)$^1$</td>
<td>Mathematics 1001 (or 1000)$^1$</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>language study (LS) course</td>
<td>language study (LS) course</td>
</tr>
<tr>
<td>elective$^2$ (breadth of knowledge encouraged)</td>
<td>elective (breadth of knowledge encouraged) or Statistics 1510</td>
</tr>
</tbody>
</table>

Note: The major in pure mathematics and the major in statistics may be completed as either a bachelor of arts or a bachelor of science program.

The major in applied mathematics can only be completed as a bachelor of science program.

You must complete core requirements for either the bachelor of arts or the bachelor of science. It is recommended that you complete the core degree requirements in your first year of study if possible.

1. Selection of a mathematics course depends on your background and ability. You should refer to the math course criteria chart prior to selecting your first-semester course. If you are completing Mathematics 1090/1000, you will be required to complete Mathematics 1001 as well. If you pass the CPT, you may take Mathematics 1001 in your first semester and 2000 and/or 2050 in your second semester.

2. Mathematics majors should complete a computer programming course such as Computer Science 1510 or 1001 in one of the first three semesters.
Bachelor of science with a major in mathematics or statistics

Students pursuing a bachelor of science with a major in applied mathematics, pure mathematics or statistics will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or 1090(^1) or 1001(^2))</td>
<td>Mathematics 1001 (or 1000(^1) or 2000(^1) and/or 2050(^2))</td>
</tr>
<tr>
<td>Physics 1050 (or 1020)(^3)</td>
<td>Physics 1051 or Statistics 1510(^3)</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course(^4,5)</td>
</tr>
<tr>
<td>science elective</td>
<td>science elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

1. If you are completing Mathematics 1090/1000, you will be required to complete Mathematics 1001 as well.
2. If you pass the CPT, you may take Mathematics 1001 in your first semester and 2000 and/or 2050 in your second semester.
3. Pure mathematics majors may substitute another science elective in place of physics. Applied mathematics majors should take Physics 1051 in the winter semester. Statistics majors should take Statistics 1510 in the winter semester. If you are registered in Physics 1050, you must also be registered in Mathematics 1000 (not 1090). If you complete Physics 1020 with at least 70%, you should take Physics 1051 - otherwise, you should take Physics 1021 in the second semester.
4. Mathematics majors should complete a computer programming course such as Computer Science 1510 or 1001 in one of the first three semesters.
5. You are required to complete six credit hours in CRW courses, including at least three credit hours in English. Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Mathematics and Statistics or contact Tara Stuckless.
Ocean Sciences

Ocean sciences, or oceanography, is a field that encompasses the study of the global marine environment from broad geographic and disciplinary perspectives. It looks at the interaction between marine life and oceanic processes, covering such diverse topics as coastal and deep-sea food webs, marine animal ecology, physiology and behaviour, plankton dynamics, the effects of pollution or climate change on ocean life and ecosystems, the management and conservation of aquatic resources, and much more.

Ocean Science (Environmental Systems)

The major in ocean sciences (environmental systems) is a formal stream of the major in ocean sciences, with a curriculum that blends foundation courses in earth and ocean sciences, with a focus on environmental issues. It is designed for students with special interest in geography (e.g. cartography, remote sensing), climate, natural resources and marine geology.

Ocean sciences at Memorial

The major in Ocean sciences is an interdisciplinary program providing a solid foundation in ocean studies, including the basic principles of its main sub-disciplines (physical, chemical, geological, and biological oceanography).

The Department of Ocean Sciences (DOS) is housed at the Ocean Sciences Centre (OSC) in Logy Bay, which is located approximately 10 kilometers (10 min) from the main St. John’s campus of Memorial University. The OSC is a major facility for marine research on the Atlantic coast and is one of Canada’s largest marine laboratories. By virtue of its location, the department provides scientists and students access to the flora and fauna of the northwest Atlantic Ocean and is uniquely situated for shore-based studies of cold-ocean processes and subarctic, Arctic and deep-sea organisms.
Education and training is one of the Department's principal mandates, and is achieved by providing a stimulating, research-intensive environment in which students can develop and thrive. The Department offers graduate and undergraduate programs, as well as hands-on field and laboratory research experience through part-time and summer research positions for undergraduates.

**Minor in oceanography**

This is an interdisciplinary program administered by the Department of Ocean Sciences in cooperation with the departments of Biology, Chemistry, Earth Sciences and Physics and Physical Oceanography.

**Minor in sustainable aquaculture and fisheries ecology**

The minor in sustainable aquaculture and fisheries ecology (SAFE) will introduce students to aquaculture and fisheries management practices and help prepare them for a career as a developer, technologist, or researcher.

**Admission to the major**

You may apply for admission into the Faculty Science by indicating bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

To be considered for admission to the ocean sciences major, students must complete the following 30 credit hours (10 courses) with a minimum 65% overall average:

- Biology 1001 and 1002
- Chemistry 1050 and 1051 (or 1200 and 1001)
- Earth Sciences 1000
- six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English
- Mathematics 1000
- Ocean Sciences 1000
- Physics 1020 (or 1050) or one Ocean Sciences course at the 2000 level

Students must complete Ocean Sciences 1000 with a minimum grade of 65%. Upon completion of these courses, students should contact the Department of Ocean Sciences to declare the major.
Sample first year

Students pursuing a bachelor of science with a major in ocean sciences or ocean sciences (environmental systems) will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000</td>
<td>Physics 1020</td>
</tr>
<tr>
<td>Ocean Sciences 1000</td>
<td>Earth Sciences 1000</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1050</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</td>
</tr>
</tbody>
</table>

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Ocean Sciences or contact Danielle Nichols.
Physics

Through physics we attempt to understand natural phenomena in the world around us, ranging from the very small atomic nuclei and elementary particles to the very large scale of the universe. Physics is concerned with how fundamental laws influence observed phenomena which might include anything from batting a baseball to rocket dynamics. It includes fundamental theories such as those of dynamics, relativity, electricity, magnetism, thermodynamics, nuclear and elementary particles, and quantum mechanics.

Environmental Physics

Environmental physics explores the Earth’s environment through the understanding provided by physics. It draws upon the ideas and concepts from many different areas of physics including mechanics, electricity, magnetism, thermodynamics and atomic physics. Memorial is the only Canadian university offering physics with an environmental focus.

Ocean Physics

Many students come to Memorial, in part, because of our strength in ocean research and our geographical proximity to the ocean. This unique program, aimed at students looking for interdisciplinary training in both physics and oceanography, strengthens that connection. Ocean physics provides students with basic and essential knowledge to study the physics of the ocean, atmosphere and climate and contains connections with the disciplines of meteorology, atmospheric science and environmental science. Memorial is the only Eastern Canadian university offering physics with an ocean focus.

Program Information

Faculty/School: Faculty of Science
Department: Physics and Physical Oceanography
Degree: Bachelor of Science
Campus: St. John’s
Honours Option: Yes
Co-op Available: No
Duration: 4 years
Intake: Fall, winter and spring semesters
Application Deadline: Applications are considered on a rolling basis. Students are encouraged to apply by:
  - March 1 for fall admission
  - Oct. 1 for winter admission
  - Feb. 1 for spring admission
Supplementary Application: No
Physics at Memorial

Many of our undergraduates are actively involved in physics research programs. This experience provides both summer employment and an excellent preparation for a career in industrial or university research.

The Department of Physics and Physical Oceanography is a member of the Atlantic Computational Excellence Network (ACEnet) for high performance computing and hosts several multi-processor machines locally. Facilities at most other universities in Atlantic Canada are linked by ACEnet's Access Grid.

The Ocean Observatory at the Bonne May Marine Station includes an underwater station for the observation of water properties and marine ecology. The station is operated by Memorial University and the Gros Morne Co-operating Association.

In addition to the major, minor and honours options in physics, joint programs are offered in:

- applied mathematics/physics (B.Sc. major and honours)
- biochemistry/physics (B.Sc. honours)
- chemistry/physics (B.Sc. honours)
- computer science/physics (B.Sc. major and honours)
- earth sciences/physics (B.Sc. major and honours)
- geophysics/physical oceanography (B.Sc. honours)

Physics majors and honours students have the option to complete a minor in applied science (process engineering) through the Faculty of Engineering and Applied Science.

Admission to the major

You may apply for admission into the Faculty of Science by indicating bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty of Science from high school is subject to meeting the general admission requirements for Memorial University.

In order to declare the physics major, students must complete 30 credit hours (10 courses) which must include:

- six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English
- six credit hours in mathematics
- six credit hours in physics
- six credit hours in a second science subject, other than mathematics and physics
Upon completion of these courses, students should contact the Department of Physics to declare their major.

Sample first year

Students pursuing a bachelor of science with a major in physics, environmental physics or ocean physics, will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (1090)&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Mathematics 1001 (1000)&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Physics 1050 (1020)&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Physics 1051&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Chemistry 1050&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>elective</td>
<td>Computer Science 1510 or 1001</td>
</tr>
</tbody>
</table>

1. If you are completing Mathematics 1090/1000, you will be required to complete Mathematics 1001 as well.

2. If you are registered in Physics 1050, you must also be registered in Mathematics 1000 (not 1090). If you are registered in Physics 1051, you must also be registered in Mathematics 1001. You will be required to complete Physics 1051. If you complete Physics 1050 with at least 50% or Physics 1020 with at least 70%, you should take Physics 1051.

3. If you are not able to register for Chemistry 1050 in the fall semester, you can take Chemistry 1010 in the fall, Chemistry 1050 in the winter semester, and Chemistry 1051 in the spring Semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

4. You are required to complete six credit hours in CRW courses, including at least three credit hours in English courses. Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.

Contact Information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Physics and Physical Oceanography or contact Dr. Rick Goulding.
Psychology

Psychology is the study of behaviour and the mind. As a science, psychology employs careful investigation to understand behaviour, thinking and experience. The profession of psychology applies this information to promote human welfare. The combination of writing, research and statistical analysis acquired in an undergraduate psychology degree is a sound preparation for many careers.

Behavioural Neuroscience

Behavioural neuroscience is the general study of the relations between the structure and activity of the brain and its function in generating integrated adaptive behavioural responses. Memorial’s neuroscience program has strong links to the Faculty of Medicine, located on the same campus in St. John’s.

Through course work and hands-on research experiences, behavioural neuroscience students learn the science behind their degree. A variety of topics are covered including spatial and temporal cognition, effects of hormones on behaviour and animal models of psychological disorders. Because behavioural neuroscience is a multi-disciplinary field, you will also take a variety of different sciences as part of their degree.

Psychology at Memorial

Our major programs in psychology provide students with a solid background in the science of psychology, and culminate with small classes offering direct, hands-on experience in conducting research in a wide variety of areas such as observation of sea bird behaviour, assessment of people’s attitudes, and experiments on memory and spatial learning.
We offer major, minor and honours programs leading to either a bachelor of arts (BA) or bachelor of science (B.Sc.) in psychology. A joint program is offered in biology/psychology (B.Sc. honours).

In addition to the B.Sc. major and honours options in behavioural neuroscience, joint programs are offered in:

- biochemistry/behavioural neuroscience (B.Sc. honours)
- biology/behavioural neuroscience (B.Sc. honours)
- nutrition/behavioural neuroscience (B.Sc. honours)

The Department of Psychology offers a co-operative education option available to psychology majors. Admission to the co-op option is competitive for a limited number of places.

**Admission requirements**

You may apply for admission into the Faculty of Humanities and Social Sciences or the Faculty Science by indicating bachelor of arts or bachelor of science as your program choice on the undergraduate application for admission.

Direct entry into the Faculty from high school is subject to meeting the general admission requirements for Memorial University.

**Admission to the major**

You cannot choose psychology as your major at the time of application. Entry into the psychology major is competitive, selective and based on academic standing. Meeting the minimum criteria does not guarantee admission to the program.

To be considered for admission to the psychology major, you must have completed a minimum of 24 credit hours (eight courses), including the following:

- six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English
- Mathematics 1000 or two of Mathematics 1090, 1050 or 1051 (or equivalent)
- Psychology 1000 and 1001
- six credit hours of elective courses (three additional credit hours if only Mathematics 1000 is completed)

A minimum average of 65% in Psychology 1000 and 1001 and an overall average of 60% in psychology, CRW, and mathematics courses is required.
Students intending to major in a psychology program must submit a departmental online application form by June 1 to the Department of Psychology. Forms are usually submitted at the end of the second semester.

Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the Department of Psychology or contact Cathy Hyde.

Sample first year

Students pursuing a bachelor of science with a major in psychology will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090¹</td>
<td>Mathematics 1000¹</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
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<tr>
<td>Chemistry 1050 or Physics 1020 (1050)²</td>
<td>Chemistry 1051 or Physics 1021 (1051)</td>
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<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
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<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course³</td>
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</tbody>
</table>

1. If you complete Mathematics 1000 in the fall semester, you may complete an elective in the winter semester.
2. If you are registered in Physics 1050, you must also be registered in Mathematics 1000 (not 1090).
3. You are required to complete six credit hours in CRW courses, including at least three credit hours in English courses.
SOCIAL WORK

The School of Social Work offers two unique undergraduate social work programs:

- bachelor of social work (as a first degree)
- bachelor of social work (as a second degree)

The first degree program is completed in four years of full-time study. The second degree program is completed over four semesters. Courses are completed on the St. John’s campus and at two practica (field internship) sites throughout the province.

Through a combination of course work and two community-based field practica, the bachelor of social work (BSW) programs emphasize social justice through hands-on learning. Students gain experience in assessment, interviewing, counselling, advocacy and community capacity building.

Admission requirements

Direct entry from high school into the BSW programs is not possible. If you are eligible for admission to the programs, you will be ranked based on academic performance, and experience in human services that relates to social work.

Both programs are competitive for a limited number of seats. You must apply by March 1 in the year in which admission is being sought.

Program Information

Faculty/School: School of Social Work
Campus: St. John’s
Honours Option: No
Work Experience: Community-based field practica
Duration:
BSW (as a first degree)
- 4 years (1 year of prerequisite study + 3 years in the degree program).
BSW (as a second degree)
- 2 years
Intake:
BSW (as a first degree)
- Fall semester only
BSW (as a second degree)
- Fall semester only
Application Deadline: March 1
Supplementary Application: Yes
Bachelor of social work (as a first degree)

To apply to the BSW as a first degree program, you must complete the following prerequisite courses (30 credit hours):

- Social Work 1710
- 18 credit hours from complementary studies, including six credit hours from learning objective one and three credit hours in each of the following learning objectives: two, four, five and six
- Additional nine credit hours from learning objectives two to six

You must complete the 10 prerequisite courses with a minimum of 65% in each course and achieve an average of at least 65% in your last 30 credit hours of undergraduate study.

You may be able to complete the prerequisite courses through online learning. All prerequisite courses must be attempted and completed by the end of the winter semester.

You must complete a minimum of 60 verified hours of work/volunteer/community involvement experience in human services that relates to social work while meeting the academic performance criteria.

Sample first year

Students pursuing a bachelor of social work will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
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<tbody>
<tr>
<td>Learning Objective One</td>
<td>Learning Objective One</td>
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<td>Learning Objective Two</td>
<td>Learning Objective Five</td>
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<td>Learning Objective Four</td>
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<td>Learning Objective Two - Six</td>
<td>Learning Objective Two - Six</td>
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<tr>
<td>Social Work 1710</td>
<td>Learning Objective Two - Six</td>
</tr>
</tbody>
</table>

Specific courses for each Learning Objective can be found at www.mun.ca/socialwork/programs/undergraduate
Bachelor of social work (as a second degree)

To apply for admission into the School of Social Work, indicate your desired degree option in the appropriate place on the undergraduate application for admission.

The Bachelor of Social Work as a Second Degree is a 60 credit hour program intended for candidates who have completed a university degree, the required prerequisite courses, meet the academic performance requirements, and have verified work experience/volunteer experience and/or community involvement in human services related to social work.

To be considered for admission to the Bachelor of Social Work as a Second Degree, applicants must have:

- been awarded a Bachelor’s degree, or been approved (by the end of the winter semester for the year in which admission is being sought) for the award of a Bachelor’s degree from a university recognized by Memorial University of Newfoundland
- achieved an average of at least 70% in the courses comprising the last 60 credit hours of undergraduate study attempted by the end of the winter semester for the year in which admission is being sought and for which a numeric grade has been assigned
- completed a minimum of 45 credit hours from the following disciplines:

  Anthropology, Archaeology, English, Gender Studies, Geography, History, Humanities, Law and Society, Philosophy, Police Studies, Political Science, Psychology, Religious Studies, Social/Cultural Studies, Sociology.

These courses and credits must have been taken at Memorial University of Newfoundland or accepted for transfer credit from a recognized university or university college.

- completed the 9 credit hours of required prerequisite courses outlined below by the end of the winter semester preceding the academic year in which admission is being sought and must have achieved a minimum grade of 70% in each of these required prerequisite courses. These
courses and credits must have been taken at Memorial University of Newfoundland or accepted for transfer credit from a recognized university or university college.

The 9 credit hours of required prerequisite courses are:

- 3 credit hours for Social Work 1710
- 3 credit hours in Psychology 2020, 2030, 2100, 2025, 2125 or 3100
- 3 credit hours from Table 1 Complementary Studies Learning Objective Three

You must complete a minimum of 300 verified hours of work experience/volunteer experience and/or community involvement experience in human services that relates to social work while meeting the academic performance criteria.

### Additional documents required for admission

Your application to the BSW as a first degree or as a second degree will require you to submit the following:

- verified hours of work/volunteer/community involvement experience in human service that relates to social work (included as part of the online application)
- provide a response to a statement on the online application

The School of Social Work provides full details on supporting documents required for admission.

### Contact information

For assistance with course selection, contact the Academic Advising Centre.

For additional program information, visit the School of Social Work or email Samantha Kenny.
Anthropology

**Anthropology 1031**
*Introduction to Anthropology* provides an overview of the field of social and cultural anthropology. It covers key anthropological concepts used to study issues such as inequality, social justice, the environment, work, politics and law, family, identity, gender and sexuality, ethnicity, spirituality, and communication. An emphasis is placed on human diversity, international examples, and processes of globalization. Suitable for students in all disciplines.

**Lectures:** Three hours per week  
**Prerequisite:** None  
**Note:** Students who major or minor in anthropology are required to take Anthropology 1031.

**Anthropology 2410**
*Classics in Anthropology* is an examination of selected milestone monographs, ground-breaking studies for sub disciplinary specialties, and major syntheses.

**Lectures:** Three hours per week  
**Prerequisite:** None

**Anthropology 2411**
*Anthropologists in the Field* combines a firsthand introduction to ethnographic research and writing with an exploration of how anthropological understanding develops through the experience and human relationships of anthropologists in the field.

**Lectures:** Three hours per week  
**Prerequisite:** None

**Anthropology 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 crises. All sections of this course follow the International Studies guidelines available at [www.mun.ca/hss/IS](http://www.mun.ca/hss/IS).

**Lectures:** Three hours per week  
**Prerequisite:** None
Anthropology 2413
Culture, Society and Globalization
explores the way in which social, cultural, economic and political interconnections at the global level interact with local social and cultural processes. All sections of this course follow the International Studies guidelines available at www.mun.ca/hss/IS.
Lectures: Three hours per week
Prerequisite: None

Anthropology 2414
Aboriginal Peoples of North America is a survey course dealing with various indigenous peoples of North America.
Lectures: Three hours per week
Prerequisite: None

Anthropology 2415
Anthropology of Food explores how cultural identities, social relationships and inequalities are linked to the production, exchange and consumption of food.
Lectures: Three hours per week
Prerequisite: None

Anthropology 2416
Cultural Formations explores the symbolic formations that humans create in order to give meaning to their lives. Some of the cultural formations that will be studied include specific examples from the realms of religion, play, sports, art, and commonplace material objects.
Lectures: Three hours per week
Prerequisite: None

Archaeology

Archaeology 1000
Introduction to Archaeology is a broad overview of archaeology and bioarchaeology introducing the concepts of human biological and cultural evolution and the methods and techniques by which these are investigated. The course is designed to provide the basis for further study in the discipline.
Lectures: Three hours per week
Prerequisite: None
Archaeology 1001
Critical Reading and Writing about the Archaeological Past is an introduction to archaeological literature including essays, monographs, and journal articles and popular media. Emphasis is placed on critical reading and writing, analyzing texts, framing and using questions, constructing essays, organizing paragraphs. Students learn elements of academic assessment of literature and technical skills to refine analytical writing. All sections of this course follow the CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: None

Archaeology/History 1005
Critical Reading and Writing in Indigenous Studies features the analysis of scholarly literature, media, and other sources of knowledge related to Indigenous studies. Students practice analytical reading and writing through class discussion and assignments related to the study of both past and present. All sections of this course follow the CRW guidelines available at www.mun.ca/hss/crw.

Lectures: This course is offered online.
Prerequisite: None

Archaeology 2450
Principles of Archaeological Science introduces the student to a broad range of scientific approaches and quantitative methods used in archaeology. The course provides an overview of the historical development of archaeological science and a survey of the current analytical techniques used to investigate materials recovered from archaeological contexts, including biomolecular methods, statistical analysis of data, geophysical prospection, dating techniques and quantitative methods of calibration, and remote sensing. All sections of this course follow the Quantitative Reasoning (QR) guidelines available at www.mun.ca/hss/qr

Lectures: Three hours per week
Prerequisite: None

Archaeology 2480
Principles of Archaeology is an introduction to archaeological techniques, methodology and theory. Lectures cover the development of the discipline, techniques of survey and excavation, and the main methods of archaeological analysis and interpretation.

Lectures: Three hours per week
Prerequisite: Archaeology 1000 or permission of instructor
Archaeology 2481
Ancient Civilizations of the Americas is a survey course introducing the archaeology and ethnohistory of the Aztec, Inca and Maya. The course is comparative and thematic, addressing the development, ideology, economics and administration of each civilization. The events and responses of these Indigenous civilizations to contact with Europeans will be investigated, examining the reasons their cities collapsed while the descendants of their populations continue to inhabit the same regions today.
Lectures: Three hours per week
Prerequisite: None

Archaeology 2482
Indigenous Peoples and the Struggle for Self-determination explores, in a Pan-American comparative perspective, the experiences of Indigenous peoples inhabiting the nation-states that emerged out of the European settlements. The loss of self-determination and struggles to regain it are shared experiences but the routes followed historically and in the present are not the same. Understanding Indigenous Peoples’ diverse experiences of, and struggles against, colonialism will enable the alliances needed for more just and sustainable societies.
Lectures: Three hours per week
Prerequisite: None

Archaeology 2492
Forensic Archaeology is an examination of procedures and techniques used by biological anthropologists and archaeologists to obtain data pertinent to investigations by law enforcement and medical authorities; evidence concerning the identification of human remains and the cause, time and manner of death.
Lectures: Three hours per week
Prerequisite: None
Note: This course may not be used for credit towards a major or minor in archaeology.
Archaeology 2493
Archaeology on Film explores the use of archaeology as a popular backdrop to many films and documentaries. Yet, the manner in which archaeology is represented in modern film is hardly realistic, or is it? The portrayal of archaeology in popular film will be discussed in order to determine what movies convey to the public about archaeological method and theory as well as the historical stories that archaeologists investigate.
Lectures: Three hours per week
Prerequisite: None
Note: This course may not be used toward a major or minor in Archaeology.

Archaeology 2494
Game of Genders: Sex and Society in the Medieval North introduces students to considerations and expressions of gender in northern medieval society, with particular reference to Viking and Anglo-Saxon worlds. The course explores the concept of gender and considers varied gendered identities found in material and textual evidence. Students will reflect on how significant cultural changes, such as the conversion to Christianity and the expansion to the North Atlantic and to L'Anse aux Meadows, laid the foundation for what is considered gender appropriate in Western society.

Lectures: This course is offered online
Prerequisite: None
Note: This course may not be used toward a major or minor in Archaeology.

Archaeology 2495
Archaeological Frauds and Mysteries will explore the sensationalized and ‘unreal’ side of archaeology and delve deeper into popular misconceptions of the past. From unraveling the mysteries of Big Foot to evaluating the evidence for alien life on Earth, students will learn how scientific methodology is used to determine facts from myths in archaeology.
Lectures: This course is offered online.
Prerequisite: None
Note: This course may not be used toward a major or minor in Archaeology.
Biochemistry

Students interested in studying biochemistry should review the information in the Bachelor of Science, biochemistry major section of this guide. Students interested in studying nutrition should review the information in the Bachelor of Science, nutrition major section of this guide.

The following course is required for students that have been admitted into the Bachelor of Nursing (Collaborative) degree program:

**Biochemistry 1430**

*Biochemistry for Nurses* is an introduction to the chemistry and structure-function relationships of carbohydrates, lipids and proteins. It will examine the basic metabolism of carbohydrates and fats, with emphasis on the biochemical fluctuations that occur in human health and disease and will include a brief introduction to molecular genetics. Prospective fast-track program students should consult with the School of Nursing concerning admission to this course.

**Lectures:** Four hours per week  
**Prerequisite:** Level three Chemistry from high school or Chemistry 1010 or Chemistry 1810 or equivalent and acceptance to the Bachelor of Nursing (Collaborative) program.

**Note:** This course may not be used for credit to fulfill the requirements for a major in the Department of Biochemistry. Entry into this course is restricted to students in the BN (Collaborative) program.

Biology

**Biology 1001**

*Principles of Biology* introduces biology as a scientific discipline, outlines the unifying ideas in modern biology and then illustrates these ideas by examining selected aspects of the form, function and diversity of some major groups of living organisms.

**Lectures:** Three hours per week  
**Laboratory:** Three hours per week  
**Prerequisite:** Science 1807 and 1808  
**Note:** Students who have written the College Board Advanced Placement Biology exam should consult the Advanced Placement Policy chart for possible awarding of credit.
Biology 1002
*Principles of Biology* is a continuation and extension of the principles embodied in Biology 1001.

**Lectures:** Three hours per week

**Laboratory:** Three hours per week

**Prerequisite:** Biology 1001 and Science 1807 and 1808

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Biology 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.

**Lectures:** Three hours per week

**Prerequisite:** None

**Note:** This course is not acceptable as one of the required courses for the minor, major or honours programs in Biology.

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Biology 2041
*Modern Biology and Human Society II* examines the origins and consequences of the environmental crisis of the 20th century. Topics include the population explosion, energy, material cycles, air and water and land pollution, global food supplies, the fisheries, wildlands, renewable and non-renewable resources, environmental ethics.

**Lectures:** Three hours per week

**Prerequisite:** None

**Note:** This course is not acceptable as one of the required courses for the minor, major or honours programs in Biology.
Business

Business 1000
Introduction to Business in Society introduces the basics of business and business corporations in society, in a real-world relevant manner. Particular attention is given to the societal stakeholders and to corporations' internal business processes and management functions. Major emphases include corporate social responsibilities and management ethics and these are recurring themes in other topics, such as technology, globalization and people in organizations. The course is a combination of textbook theory and guided learning activities and assignments based on finding and integrating real world information.

Lectures: Three hours per week
Prerequisite: None

Chemistry

Selection of a chemistry course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

Chemistry 1010
Introductory Chemistry I examines descriptive chemistry; measurements; atoms; molecules; the mole; mole calculations and reaction stoichiometry; the balancing of redox reactions; gases; thermochemistry; introduction to chemical kinetics and equilibrium; acids and bases.

Lectures: Four hours per week
Laboratory: Three hours biweekly alternating with tutorials
Tutorial: 90 minute tutorial alternating with labs
Prerequisite: Science 1807 and 1808. It is recommended that students have successfully completed high school Academic Mathematics 3201, or a pass in any university level mathematics taking, exercising initiative and personal responsibility to achieve goals, the process of launching new ventures, local and international entrepreneurial ventures, and various paths to firm ownership. The course approaches entrepreneurship as a way of thinking and acting that can be useful in any organizational setting.

Lectures: Three hours per week
Prerequisite: None
Course

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Chemistry 1050

General Chemistry I builds on basic chemistry concepts from high school. Topics include gases; thermochemistry; atomic structure; periodic properties; chemical bonding including valence bond theory; hybridization and introduction to molecular orbital theory; properties of liquids and solids.

Lectures: Four hours per week
Laboratory: Three hours per week
Prerequisite: Chemistry 1010 with a grade of at least 60 per cent or high school Chemistry 3202 with a grade of at least 65 per cent, and Science 1807 and 1808. It is also recommended that students have successfully completed high school Mathematics 3200 or 3201.

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Chemistry 1051

General Chemistry II builds on Chemistry 1050 topics and on basic chemistry concepts from high school. Topics include solutions, kinetics, chemical equilibrium, equilibria involving acids and bases including polyprotic acids, buffers, acid-base indicators, titration curves, solubility and complex ion equilibrium, thermodynamics, and electrochemistry.

Lectures: Three hours per week
Laboratories: Three hours per week
Prerequisite: Chemistry 1050 and Science 1807 and 1808

Notes:

1. Students must complete Science 1807 and 1808 before attending the first laboratory for this course.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
3. Attendance in laboratories is required. Failure to attend may result in a failing grade or deregistration from the course.
4. Credit may be obtained for only one of Chemistry 1010 and 1200 (Grenfell Campus)
5. Students who plan to transfer to a program at another university are advised that they may not receive transfer credit for Chemistry 1010.
6. Credit may be obtained for only one of 1011, 1051 and Chemistry 1001 (Grenfell Campus).
Chinese (Mandarin)

Religious Studies 1040
Introduction to Chinese (Mandarin) will introduce students to the basics of Chinese vocabulary, characters and grammar. Mandarin Chinese, the official dialect of China, Taiwan and Singapore, will be taught. This course is not intended for native speakers.

Lectures: Three hours per week
Prerequisite: None
Note: All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Religious Studies 1041
Introduction to Chinese (Mandarin) II is a continuation of Religious Studies 1040. At the end of this course students should know over a hundred Chinese characters, which should enable them to read basic texts and carry on a simple conversation. This course is not intended for native speakers.

Lectures: Three hours per week
Prerequisite: Religious Studies 1040
Note: All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Classics

Classics 1001
Critical Reading and Writing:
Classics in Popular Culture is an introduction to the ways in which modern popular culture represents and understands the ancient Greek and Roman world. Emphasis is placed on learning and practicing critical reading and writing skills, including the comprehension and analysis of primary sources and secondary literature, and effective academic composition.

Lectures: Three hours per week
Prerequisite: None
Note: All sections of this course follow the CRW guidelines available at www.mun.ca/hss/crw.

Classics 1051
Gods in Classical Mythology is an introduction to some of the major myths of ancient Greece and Rome, with particular attention to the gods. The myths will be studied with reference to their social and historical contexts, literary and artistic representations and modern theories of interpretation.

Lectures: Three hours per week
Prerequisite: None
Classics 1052
Heroes in Classical Mythology is an introduction to some of the major myths of ancient Greece and Rome, with particular attention to the heroes. The myths will be studied with reference to their social and historical contexts, literary and artistic representations and modern theories of interpretation.
Lectures: Three hours per week
Prerequisite: None

Classics 1100
Life in Ancient Greece 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.
Lectures: Three hours per week
Prerequisite: None

Classics 1120
Introductory Latin I familiarizes students with the basics of the Latin language. Students will learn how to read simple narratives and short poems in Latin and examine the connections between language and culture. Evaluation will focus largely on comprehension of written Latin.
Lectures: Three hours per week
Prerequisite: None
Note: All sections of this course follow the LS guidelines available at www.mun.ca/hss/ls.

Classics 1121
Introductory Latin II continues to familiarize students with the Latin language and Roman culture and society. Students will acquire a broad vocabulary, learn to read more complex passages of prose and poetry in Latin, and gain insights into key social concepts through study of language.
Lectures: Three hours per week
Prerequisite: Classics 1120 or its equivalent
Note: All sections of this course follow the LS guidelines available at www.mun.ca/hss/ls.
Classics 1130
Introductory to Ancient Greek
I familiarizes students with the basics of the Ancient Greek language. Students will master the Ancient Greek alphabet, learn how to read simple narratives in Ancient Greek, and examine the connections between language and culture. Evaluation will focus largely on comprehension of written Ancient Greek.
Lectures: Four hours per week
Prerequisite: None
Note: All sections of this course follow the LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Classics 1131
Introductory Ancient Greek II continues to familiarize students with the Ancient Greek language. Students will acquire a broad vocabulary, learn to read more complex passages of prose and poetry, and gain insights into key social concepts through study of language.
Lectures: Four hours per week
Prerequisite: Classics 1130 or its equivalent
Note: All sections of this course follow the LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Classics 1200
Life in Ancient Rome 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.
Lectures: Three hours per week
Prerequisite: None

Classics 1900
Scientific Terms from Greek and Latin is an overview of the Greek and Latin origins of modern technical, scientific, and medical terminology. The course familiarizes students with the morphological rules of modern technical and scientific vocabulary and gives them the tools to memorize and understand them more easily by deriving them from their Greek and Latin origins.
Lectures: Three hours per week
Prerequisite: None
Communication Studies

**Communications 2000**
**Critical Approaches to Popular Culture** considers critical issues and approaches in the study of popular culture. It will explore the ways in which everyone is both a user of, and is used by, popular culture. A variety of critical approaches to studying popular culture will be examined: production, texts, audience and history.

**Lectures:** Three hours per week

**Prerequisite:** None

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**Communications 2001**
**Introduction to Communication Theory** provides an introduction to theoretical approaches to organization, use and manipulation of language including semiotics, performativity, mass and group communications, sociolinguistics and interpersonal communication. We will examine notions of influence, rhetoric, social judgment, deception, subject formation, globalization and cultural hybridity within the field of communications.

**Lectures:** Three hours per week

**Prerequisite:** None. Prior completion of Communications 2000 is encouraged.

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Computer Science

**Computer Science 1000**
**Computer Science – An Introduction** takes a breadth-first overview approach to the discussion of important aspects of computer science including fundamentals in algorithms, binary data representation, Boolean logic, systems software, networking concepts, introductory programming, databases, and selected Computer Science subfields.

**Lectures:** Three hours per week

**Laboratory:** Three hours per week

**Prerequisite:** None

**Notes:**

1. Students can receive credit for only one of Computer Science 1000 and the former 1700.
2. Students cannot receive credit for Computer Science 1000 if they have previously successfully completed, or are currently registered for, Computer Science 1003.
3. Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](#) for possible awarding of credit.
Computer Science 1001
Introduction to Programming is an introduction to fundamental programming techniques, primitive data types, and to simple algorithms and their design concepts.

Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: None
Notes:

1. Students can receive credit for only one of Computer Science 1001 and the former 1710.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Computer Science 1002
Introduction to Logic for Computer Scientists introduces methods of reasoning and logic tools that underlie computer science. In particular, this course covers propositional and predicate logic, sets and other discrete structures, as well as modular arithmetic and basic counting, with emphasis on their applications in computer science.

Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: None
Notes:

1. Students cannot receive credit for both Computer Science 1002 and either of the former Computer Science 2742, Engineering 4424, Mathematics 2320.
2. Students cannot receive credit for Computer Science 1002 if completed with, or subsequent to, Mathematics 2320.

Computer Science 1003
Foundations of Computing Systems provides an in-depth introduction to foundational topics in computer science: algorithms and data structures, theory of computing, machine architecture and their historical context.

Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: Computer Science 1001
Co-requisite: Computer Science 1002 or Mathematics 2320
**Computer Science 1400**  
**Computing in the 20th Century and Beyond** will give an overview of the development of computing technologies over the last 75 years as well as both the perception of these technologies by, and their impact on, society. The course will be organized chronologically by decade, and within each decade will examine the dominant computing developments, their image in various print and pictorial media, and their social impact. The aim is to give students of all disciplines an appreciation of the abilities and limitations of computer technology and how such technologies interact with society.  
**Lectures:** Three hours per week  
**Prerequisite:** None

**Computer Science 1401**  
**Computing at the Movies** will both examine and counter common misconceptions about computing and the computing profession. This will be done by contrasting depictions of various aspects of computing in various movies and documentaries produced over the last 60 years with the reality of these aspects as given in selected readings and course lecture notes.  
**Lectures:** Three hours per week  
**Prerequisite:** None

**Computer Science 1510**  
**An Introduction to Programming for Scientific Computing** introduces students to basic programming in the context of numerical methods with the goal of providing the foundation necessary to handle larger scientific programming projects. Numerical methods to solve selected problems from physics, chemistry and mathematics will be covered.  
**Lectures:** Three hours per week  
**Laboratory:** Two hours per week  
**Prerequisite:** Mathematics 1000

**Computer Science 1600**  
**Basic Computing and Information Technology** offers an overview of information technology. It provides students with an understanding of basic concepts and necessary skills required to use spreadsheet, database and presentation software to manage, analyze and present data.  
**Lectures:** Three hours per week  
**Laboratory:** Three hours per week  
**Prerequisite:** None
Computer Science 2000
Collaborative and Emergent
Behaviour is a survey of computation as a means of understanding, modelling and describing artificial and natural systems. The emergence of complex behaviour from the interaction of simple rules governing individual components is illustrated and discussed, as well as the role of communication between system components. Selected systems to be studied will be drawn from different topic areas which may include the World Wide Web, the mind (cognitive science), formal logic, autonomous robotics, chaos and fractals and bioinformatics. Each topic will incorporate an associated laboratory experience.

Lectures: Three hours per week
Laboratory: Three hours bi-weekly
Prerequisite: None

Computer Science 2001
Object-Oriented Programming and Human-Computer Interaction
advances from Introduction to Programming and studies object-oriented programming. Additional topics include event-driven programming, program correctness and simple refactoring, as well as interfaces and human-computer interaction. A brief overview of programming languages is also provided.

Lectures: Three hours per week

Laboratory: Three hours per week
Prerequisite: Computer Science 1001 and Mathematics 1000
Note: Students can receive credit for only one of Computer Science 2001 and 2710.

Computer Science 2500
Data Analysis with Scripting
Languages introduces the use of scripting languages to solve common data analysis tasks. The control structures and expressions of the language are first discussed. Script solution to storing/retrieving data sets, searching data sets, and performing numeric and statistical calculation are covered. Plotting and visualization for data sets are also presented.

Lectures: Three hours per week
Prerequisite: Computer Science 1000 or 1001 or 1510 or 1700 or 1710
Computer Science 2510
Programming in C/C++ is a comprehensive treatment of the C/C++ programming languages. It is intended for students with some first programming experience. This course starts with a discussion of fundamentals of C and C++, moves on to the object-oriented aspects of C++, and introduces some advanced topics. It is an essential course for mastering the power of this rich programming language.

Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: Computer Science 1001 or 1510 or the former 1710 or Engineering 1020, or equivalent

Earth Sciences

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
Prerequisite: None

Notes:

1. This course is required for the Earth Sciences minor, major and all joint programs. It may also be used toward a minor in oceanography.
2. A minimum grade of 55 percent in Earth Sciences 1000 is required for Earth sciences majors, minors and all joint programs.
3. NL high school students who have completed the course Earth Systems 3209 may be eligible to receive credit (three credit hours) in the undergraduate course Earth Sciences 1000. This is subject to meeting a minimum grade on the public examination in Earth Systems 3209 and submission of a Challenge for Credit application with the Office of the Registrar upon completion of the course.
Earth Sciences 1002
*Concepts and Methods in Earth Sciences* provides an introduction to a broad range of concepts concerning the development of the geological record and the Earth; practical methods for collection of field based data; topics in map interpretation and geometric analysis, stratigraphy, paleontology, structure, petrology and geophysics. 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  
**Note:** A minimum grade of 55 percent in Earth Sciences 1002 is required for Earth sciences majors, minors and all joint programs.

Earth Sciences 2150
*The Solar System* describes the basic astronomy of the solar system, tracing the search to understand motion of the sun, moon and planets in the sky; modern observations of planets, moons, comets, asteroids and meteorites and what they tell us about the origin and evolution of the solar system.  
**Lectures:** Two and a half hours per week  
**Prerequisite:** None  
**Note:** This course may not be used toward the minor, major or honours programs in Earth sciences.

Earth Sciences 2916
*Natural Hazards on a Dynamic Earth* describes the surface of the Earth being in a constant state of change, thereby posing risks and challenges for society. A basic understanding of geological processes in the past and present provides some context for appreciating the risks related to earthquakes, volcanic activity and mass movements, challenges related to water resources, land-use planning and waste disposal, and some background to interpret sources and consequences of climate change. The course will provide a broad perspective on contemporary issues facing society. This course is designed for students taking Earth sciences as an elective subject. This course complements traditional disciplines such as history, economics, and political science and should be of particular interest to prospective teachers.  
**Lectures:** This course is offered online.  
**Prerequisite:** None  
**Note:** This course may not be used toward the minor, major or honours programs in Earth sciences.
Earth Sciences 2917

Gems: The Science and Politics introduces students to precious and semi-precious stones both from the perspective of their nature and origin and from the perspectives of geography and the socio-political issues of mining, recovery, trade and cartels. The properties that confer value upon gems (colour, clarity, cut and carat), the techniques used to enhance, fake and imitate gems and the techniques used to detect fraudulent “gems” will be covered. The course will include discussion of the diamond industry in Canada and consideration of some famous gems. This course is designed for students taking Earth sciences as an elective subject. This course complements traditional disciplines such as history, economics, and political science and should be of particular interest to teachers.

Lectures: Two and a half hours per week

Prerequisite: None

Note: This course may not be used toward the minor, major or honours programs in Earth sciences.

Earth Sciences 2918

Earth's Story is an overview of Earth's dynamic past of episodes of supercontinent collision and breakup, massive flooding, global warming and freezing, magnetic field reversals and continents travelling over large distances. The evolution of life is tied to this history and has had equally dramatic turns of rich growth and catastrophic extinction. Discussion will be based on Canadian geology and includes an introduction to techniques used to decipher the rock record.

Lectures: This course may be offered by distance or in class

Prerequisite: None

Note: This course may not be used toward the minor, major or honours programs in Earth sciences.
Earth Sciences 2919
Introduction to Marine Geology (same as Ocean Sciences 2200) is a study of the formation and evolution of oceans, including plate tectonics, mid-ocean ridges (birth place of oceans), subduction zones (where oceans are consumed), sedimentary environments such as estuaries, deltas, beaches and barrier islands, continental shelves, slopes and deep abyssal plains and special topics, including anoxic events, evolution of tides, atmosphere-ocean interactions, formation of banded iron formations, snowball Earth, black and white smokers, and how Earth modulates its climate through atmosphere, hydrosphere, biosphere and lithosphere interactions.

Lectures: Three hours per week
Prerequisite: Earth Sciences 1000 with a minimum grade of 55 percent

Notes:

1. Students can receive credit for only one of Earth Sciences 2919 and Ocean Sciences 2200.
2. This course may be used toward the minor in Earth Sciences, but may not be used toward the major in Earth Sciences.

Economics

Economics 1010
Introduction to Microeconomics I examines scarcity and opportunity cost; demand and supply; elasticity; household demand: marginal utility; household demand: indifference curves; production functions; short-run and long-run cost functions; perfect competition in the short run and the long run; monopoly. All sections of this course follow QR guidelines for the Bachelor of Arts available at www.mun.ca/hss/qr

Lectures: Three hours per week
Prerequisites: None.

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
**Economics 1020**  
**Introduction to Macroeconomics** is national income accounting, aggregate income analysis, money, banking and foreign trade.  
Note: All sections of this course follow QR guidelines for the Bachelor of Arts available at www.mun.ca/hss/qr  
**Lectures:** Three hours per week  
**Prerequisites:** None  
**Note:** Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.  

**Notes:**  
1. Economics 1010 and 1020 need not be taken in any specific order and may be taken concurrently.  
2. Economics 1010 and 1020 are prerequisites to all further courses in economics.

**Engineering**

**Engineering 1010**  
**Engineering Statics** is the first course in engineering mechanics. Forces and moments are described with vector algebra, leading to a description of the equilibrium conditions for particles and solid bodies. The importance of free body diagrams is highlighted. This knowledge is then applied to the analysis of trusses, frames and machines. Additional topics include an examination of friction and the concepts of centre of force, centroids and second moments of area.  
**Lectures:** Three hours per week  
**Tutorials:** One hour per week  
**Prerequisite:** Level III Physics or Physics 1020 and Mathematics 1000 (which may be taken concurrently)

**Engineering 1020**  
**Introduction to Programming** is an introduction to algorithmic problem solving techniques and computer programming, including basic program control structures (sequence, call, branch, loop) and data representations, functional decomposition and design by contract. Exercises and examples are drawn from a variety of engineering disciplines and are implemented using a standard modern programming language.  
**Lectures:** Three hours per week  
**Laboratory/Tutorial:** At least eight two-hour sessions  
**Prerequisite:** Level III Advanced Mathematics or Mathematics 1090

**Engineering 1030**  
**Engineering Graphics and Design** provides two complementary competencies. First, it provides an introduction to the fundamentals of graphic communication, including orthographic projections, three
dimensional pictorials, sectioning and dimensioning. Both sketching and CAD are utilized. Second, the course introduces students to standard design methodologies. The graphics and design competencies are reinforced through lab and project exercises.

**Lectures:** Three hours per week  
**Laboratory/Tutorial:** Two hours per week  
**Prerequisite:** Level III Advanced Mathematics or Mathematics 1090

**Engineering 1040**  
**Mechanisms and Electric Circuits** (pilot curriculum) will engage and prepare students for Memorial University’s engineering program by: exercising student judgement and understanding of an engineering mindset to problem formulation, solution, and assessment of what is a “reasonable” result; introducing students to software environments to increase their ability and comfort in using computers as engineering problem-solving tools; and introducing problems that relate to the variety of engineering disciplines offered in the program. Students in the electrical circuits portion of the course will be taught relevant theory, and the application of problem-solving skills, judgement and visualization to the solution of electrical circuit problems.

**Lectures:** Three hours per week  
**Laboratory:** Two hours per week  
**Prerequisite:** Level III Physics or Physics 1051 (which may be taken concurrently) and Mathematics 1000 (which may be taken concurrently)

**Notes:**

1. The engineering course pairs 1010/1020 and 1030/1040 are offered in single slots so that students can only take one from each pair in the fall and winter semesters.  
2. All four courses are offered separately in the spring semester.

**Engineering 200W**  
**Work Term Preparation and Professional Development** introduces the co-operative education process and professional development, and prepares the student for work terms. This course is designed to assist students to apply for, interview and obtain the first work term, as well as to be prepared for a professional work environment. It is a one semester offered during the fall and winter semesters of Engineering One, prior to a student’s first work term competition. This course is graded PAS or FAL.

**Note:** Attendance is required
English

English 1090
Critical Reading and Writing: Telling Stories focuses on the language we encounter in our reading and use to record our reading experiences. Emphasis is placed on critical reading and writing: analyzing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: None

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Notes:

1. English 1090 or the former 1080 cannot be used as the prerequisite for 1020 or 1021.
2. Credit may be obtained for only one of 1000, 1090 or the former 1080.

English 1110
Critical Reading and Writing in Rhetoric is an examination of prose texts such as essays, articles and reviews. Students write for different purposes and audiences. Emphasis is placed on critical reading and writing: analyzing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing. All sections of this course follow Critical Reading and Writing Course Guidelines available at www.mun.ca/hss/crw and build on foundational CRW content delivered in English 1090.

Lectures: Three hours per week
Prerequisite: English 1000, 1020, 1090, or the former 1080

Notes:

1. All students entering the Faculty of Business undergraduate programs must have successfully completed English 1110 or English 1021.
2. Six credit hours in English at the 1000 level are a prerequisite for all English courses at the 2000 level or above.
English 1191
Critical Reading and Writing: Self and Society studies a variety of texts that explore the interaction between individual desires and social identities. Building on foundational critical reading and writing skills acquired in English 1090, students gain further experience with analyzing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: English 1000 or 1020 or 1090 or the former 1080

Notes:

1. Credit may be obtained for only one of 1191 and the former 1001, 1101, 1102, 1103.
2. Bachelor of Arts students should normally choose their second CRW course from a discipline listed in the Breadth of Knowledge Requirement, unless they pursue a major or minor in English.

English 1192
Critical Reading and Writing: Imagined Places studies a variety of texts that explore imaginary (or imaginatively reconstructed) places and the responses of the humans who inhabit them. Building on foundational critical reading and writing skills acquired in English 1090, students gain further experience with analyzing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: 1000 or 1020 or 1090 or the former 1080

Notes:

1. Credit may be obtained for only one of 1192 and 1001 and the former 1101, 1102, 1103.
2. Bachelor of Arts students should normally choose their second CRW course from a discipline listed in the Breadth of Knowledge Requirement, unless they pursue a major or minor in English.
English 1193
Critical Reading and Writing: Ways of Reading focuses on the process of reading, on specific strategies and approaches that we take in our encounters with texts and on the ways we report those encounters. Building on foundational critical reading and writing skills acquired in English 1090, students gain further experience analyzing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: English 1000 or 1020 or 1090 or the former 1080

Notes:

1. Credit may be obtained for only one of 1193 and 1001 and the former 1101, 1102, and 1103.
2. Bachelor of Arts students should normally choose their second CRW course from a discipline listed in the Breadth of Knowledge Requirement, unless they pursue a major or minor in English.

Courses for students whose first language is not English:

English 1020
Writing for Second Language Students I is an introduction to the use of English with emphasis on composition. This course is for students whose first language is not English and who have attained a standard acceptable to the University on an approved language proficiency exam such as IELTS, TOEFL or CAEL. Students completing this course may elect to use it with English 1021 to fulfill the Bachelor of Arts Language Study requirement.

Lectures: Three hours per week
Note: This course cannot be used as credit to fulfill the requirements for the major, minor, and honours in English programs.
English 1021
Writing for Second Language Students II develops skills in reading and writing of academic English, with emphasis on research and writing syntheses from sources, for non-native English-speaking students.
Lectures: Three hours per week
Prerequisite: English 1020
Note: This course cannot be used as credit to fulfill the requirements for the major, minor, and honours in English programs.

Notes:

1. Students completing this course may elect to use it with English 1020 to fulfill the Bachelor of Arts Language Study requirement.
2. Students may not receive credit for more than 6 credit hours in first-year courses in English (this includes unspecified first-year transfer credits), except English 1020 and 1021 if they are used to fulfill the Bachelor of Arts Language Study requirement.
3. One of English 1021 or English 1110 is required as the second semester first-year English course for entry into a Faculty of Business undergraduate program.

Folklore

Folklore 1000
Introduction to Folklore explores the role of tradition in communication, art and society. Reading assignments and audiovisual material will emphasize the use of folklore in context. Students will analyze traditions in their own lives through special assignments. A student may not receive credit for both Folklore 1000 and 2000.
Lectures: Three hours per week
Prerequisite: None

Folklore 1005
Critical Reading and Writing in Newfoundland and Labrador Studies emphasizes learning about how to identify, critically read, and analyze a variety of texts that explore the culture and traditions of everyday life in Newfoundland and Labrador. In addition, special attention will be given to the stages of the writing process, from prewriting exercises to drafts and revisions. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.
Lectures: Three hours per week
Prerequisite: None
Folklore 2100
**Folklore Research Methods** introduces the resources, tools and methods that folklorists use for primary and secondary research, including interviewing and participant observation.  
**Lectures:** Three hours per week  
**Prerequisite:** None  
**Note:** it is strongly recommended that majors and minors take this course before taking 3000 and 4000 level courses

Folklore 2401  
**Folklife Studies** examines the interweaving of traditional elements in the tangible and intangible cultural heritage of various cultures. These may include holiday customs, rites of passage, folk religion, home remedies, clothing, food and art.  
**Lectures:** Three hours per week  
**Prerequisite:** None  

French
Selection of a French course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

French 1500  
**Introductory University French I** is a course for beginners and for students whose background in French is very weak. Permission to register for this course will not be given to students who have completed Français 3202 (high school French immersion). All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls  
**Lectures:** Three hours per week  
**Conversation/Multi-Media Laboratory:** as per instructor’s recommendation  
**Prerequisite:** None  

Notes:

1. French 1500 is offered every semester. During fall and winter it is available evenings and online.  
2. Students who have difficulty registering for this course should contact Dr. Barbara Thistle, thistle@mun.ca  
3. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
French 1501
Introductory University French II is one of three consecutive credit courses in French language at the first-year university level, offering a complete overview of basic oral and written French. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Conversation/Multi-Media Laboratory: as per instructor’s recommendation
Prerequisite: French 3200 or 3201 with a final grade of at least 80 per cent, or French 1500, or permission of the co-ordinator of first-year French. Ex-immersion students with less than 60 per cent should register for this course.

Notes:
1. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
2. French 1501 is offered every semester. During fall and winter it is available evenings and online.

French 1502
Introductory University French III is one of three consecutive credit courses in French language at the first-year university level, offering a complete overview of basic oral and written French. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Conversation/Multi-Media Laboratory: as per instructor’s recommendation
Prerequisite: French 1501 with a final grade of at least 60 per cent or high school French 3201 with a final grade of at least 90 per cent or permission of the co-ordinator of first-year French.

Notes:
1. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
2. French 1502 is offered every semester. During fall and winter it is also available in the evenings. It is also available online.

Note: Students may use only two of French 1500, 1501 and 1502 towards the minimum requirements for a major or minor in French.
French 2100
Intermediate French I is a course on composition, grammar and practice in oral skills. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls
Lectures: Three hours per week
Prerequisite: Français 3202 with a final grade of at least 85 per cent or an exceptional background in French or French 1502 with a final grade of at least 60 per cent.
Note: Students who obtain a grade of less than four on the Advanced Placement examination in French language and students who have received less than 85 per cent in French Immersion 3202 should register for French 1502.

Gender Studies

Gender Studies 1000
Introduction to Gender Studies considers gender, gender studies and feminisms as areas of exploration from historical, contemporary, transnational and interdisciplinary perspectives. The aim of this course is to provide a critical framework for thinking about questions related to gender and other forms of social difference.
Lectures: Three hours per week
Prerequisite: None

Gender Studies 1005
Critical Reading and Writing in Identities and Difference builds foundational critical reading and writing abilities through an exploration of feminist scholarship about the construction of identities and difference in cultural discourse, representation, and institutions. Students learn the principles of scholarly analysis and the mechanics of academic writing. Coursework focuses on critically analyzing texts, evaluating sources, framing questions, developing an argument, and refining written work for gender studies and related fields. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.
Lectures: Three hours per week
Prerequisite: None

Gender Studies 2006
Genders and Sexualities introduces genders and sexualities from an interdisciplinary perspective. Students will explore the continuum of sex/gender and sexual identities, and examine how these identities intersect with other aspects of identity, including (but not limited to) race, class, and (dis)ability.
Lectures: Three hours per week
Prerequisite: None
Gender Studies 2007

Girlhood and Girl Culture critically engages with the expanding contemporary feminist scholarship on girlhood and girl cultures. It considers historical and contemporary constructions of girlhood in primarily Western contexts as they intersect with ‘race’, ethnicities, sexualities and class. Course materials will be used to explore static and changing dimensions of girlhood, including gender expectations and identities; girlhood as possible sites of power; and claims about the emergence of ‘grrrls’ and ‘new girls.’

Lectures: Three hours per week
Prerequisite: None

Geography

Geography 1050
Geographies of Global Change provides perspectives on the major geographical challenges and changes facing the contemporary globe, including: climate and environmental change, sustainability, human development, economic globalization, cultural change, and population and migration. Using the integrative skills of geographical analysis, the course prepares students for advanced study in geography and citizenship in the modern world. All sections of this course follow QR guidelines for the Bachelor of Arts available at www.mun.ca/hss/qr.

Lectures: Three hours per week
Prerequisite: None

Geography 2001
Cultural Geography is an introduction to the study of culture in geography, emphasizing both the history of the field from classic studies of landscapes to contemporary scholarship and themes of recent importance. It explores the politics of cultural production and consumption: critical spaces of cultural production and consumption from around the world, including cities, landscapes, texts, media, performance and identity; and concepts of everyday life, materiality, and space/place. All sections of this course follow International Studies guidelines available at www.mun.ca/hss/IS.

Lectures: Three hours per week
Prerequisite: Geography 1050

Geography 2102
Physical Geography: The Global Perspective is a study of form, process and change in natural systems at and near the surface of Earth, viewed as human environment. Emphasis is on global and regional scales in the systematic study of climate, water, landforms and vegetation. All sections of this course follow International Studies guidelines available at www.mun.ca/hss/IS and Quantitative
Geography 2105
Canada's Natural Environments and Landscapes examines the characteristics and development of the natural environments and landscapes of each of the major regions of Canada. The diversity of natural environments is illustrated through discussion of the climatic, hydrological, biogeographical, and geomorphic processes responsible for shaping the land. The impact of both gradual and rapid (catastrophic) changes on local, national, and global scales will be emphasized.
Lectures: Three hours per week or online
Prerequisite: none
Note: This course may not be used toward a major in Geography.

Geography 2195
Introduction to Geographic Information Sciences is an introduction to the fields of cartography, remote sensing and geographic information systems (GIS). Geographic information collection and representation and analysis methods are the topics for the course. An emphasis is given to applications of maps and satellite images. All sections of this course follow QR guidelines for the Bachelor of Arts available at www.mun.ca/hss/qr.
Lectures: Three hours per week
Prerequisite: None

Geography 2302
Issues in Economic Geography covers basic issues and ideas in economic geography. The development of a regional economy will be related to underlying economic, cultural and physical factors. All sections of this course follow International Studies guidelines available at www.mun.ca/hss/IS and Quantitative Reasoning course guidelines available at www.mun.ca/hss/qr.
Lectures: Three hours per week
Prerequisite: Geography 1050
Geography 2425
**Natural Resources** is an introduction to the concepts of natural resources, environment and conservation: the nature and distribution of natural resources; methods of use, allocation and development of natural resources and the role of various physical, social, economic, political and technological factors influencing decision-making about resources.

**Lectures:** Three hours per week
**Prerequisite:** Geography 1050
**Note:** Credit may not be obtained for both Geography 2425 and 3325.

Geography 2495
**Regional Geography of Labrador** is a holistic study of the Geography of Labrador, including the terrain, geology, Quaternary history, climate, vegetation, and fauna; the cultural geography of Labrador, including Innu, Inuit, NunatuKavut, and Settler people and communities; economic activities in Labrador, and the interaction of the Labrador economy within NL, Canada, and globally; the management of physical and human resources; and the geographic techniques used to investigate and understand Labrador’s unique Geography.

**Lectures:** Three hours per week or online
**Prerequisite:** None

**Note:** This course may not be used toward a major in Geography.

German

German 1000
**Elementary German I** is a course intended to give beginners a basic knowledge of the spoken and written language and culture of the German-speaking countries.

**Lectures:** Three hours per week
**Prerequisite:** None
**Note:** All sections of this course follow LS guidelines for the Bachelor of Arts available at [www.mun.ca/hss/ls](http://www.mun.ca/hss/ls)

**Note:** Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](http://www.mun.ca/hss/ls) for possible awarding of credit.

German 1001
**Elementary German II** is a continuation of Elementary German I with the same basic text.

**Lectures:** Three hours per week
**Prerequisite:** German 1000
**Note:** All sections of this course follow LS guidelines for the Bachelor of Arts available at [www.mun.ca/ls](http://www.mun.ca/ls)

**Note:** Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](http://www.mun.ca/ls) for possible awarding of credit.
**German 1002**  
**Elementary German** for Business and Engineering I is for students with no prior knowledge of German. It is intended to give beginners a basic knowledge of spoken and written German with an emphasis on developing skills pertinent to business, commerce, and engineering. All sections of this course follow the Language Study Course Guidelines available at www.mun.ca/hss/ls.  
**Lectures:** Three hours per week  
**Prerequisite:** None  
**Note:** Students can receive credit for only one of German 1000 and 1002.

**German 1003**  
**Elementary German for Business and Engineering II** is a continuation of GERM 1002. It further develops a basic knowledge of spoken and written German with an emphasis on developing skills pertinent to business, commerce, and engineering. All sections of this course follow the Language Study Course Guidelines available at www.mun.ca/hss/ls.  
**Lectures:** Three hours per week  
**Prerequisite:** German 1000 or 1002  
**Note:** Students can receive credit for only one of German 1001 and 1003.

**German 1010**  
**Critical Reading and Writing: Hansel, Gretel, and the Big Bad Wolf** introduces students to the German story-telling tradition from the Middle Ages to the present. Students will learn how to identify, critically read, analyze and evaluate arguments using rational judgement and appropriate rhetorical techniques and how to construct logically sound academic essays, incorporating the words and ideas of others. The communicative advantages of identifying an audience, the use of effective tone, word choice, and sentence patterns will also be covered. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.  
**Lectures:** Three hours per week  
**Prerequisite:** None

**German 2900**  
**Introduction to German Culture I** is a study of the major cultural trends and movements of German-speaking Europe to the beginnings of the modern age. Lectures are given in English.  
**Lectures:** Three hours per week  
**Prerequisite:** None
**German 2901**

**Introduction to German Culture II** is a study of the major cultural trends and movements of German-speaking Europe in the modern age. Lectures are given in English.

**Lectures:** Three hours per week

**Prerequisite:** None

**Notes:**

1. A number of courses may be of interest to incoming students. They require no prerequisites, the language of instruction is English throughout and they cover German culture and literature: German 2900, 2901, 3000 and 3001. These courses may not be used as part of the Bachelor of Arts requirement of two courses in a second language.

2. Completion of German 1000 and 1001 qualifies students for the Heidelberg Field School summer program in Heidelberg, Germany.

**History**

**History/Archaeology 1005**

**Critical Reading and Writing in Indigenous Studies** features the analysis of scholarly literature, media, and other sources of knowledge related to Indigenous-Aboriginal studies. Students practice analytical reading and writing through class discussion and assignments related to the study of both past and present. All sections of this course follow the Critical Reading and Writing course guidelines for the Bachelor of Arts available at [www.mun.ca/hss/crw](http://www.mun.ca/hss/crw).

**Lectures:** This course is offered online.

**Prerequisite:** None

**Note:** This course may be used toward a major or minor in archaeology.

**History 1007**

**Critical Reading and Writing: Themes in the History of Business** uses case studies to examine the long history of global trade, markets, the emergence of the corporation, and the policy and political contexts in which modern business developed. It teaches students how to analyze and think critically about a wide variety of sources and to write well-crafted papers that are coherently organized and argued. All sections of this course follow CRW guidelines for the Bachelor of Arts available at [www.mun.ca/hss/crw](http://www.mun.ca/hss/crw).

**Lectures:** Three hours per week

**Prerequisite:** None
History 1009
Critical Reading and Writing: The Medieval and Ancient World introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on the medieval and/or the ancient world. All sections of this course follow CRW guidelines for the Bachelor of Arts available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None

History 1010
Critical Reading and Writing: The Americas introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on the Americas. All sections of this course follow CRW guidelines available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None

History 1011
Critical Reading and Writing: Modern Europe introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on modern Europe. All sections of this course follow CRW guidelines for the Bachelor of Arts available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None

History 1012
Critical Reading and Writing: The Twentieth Century introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on the twentieth century. All sections of this course follow CRW guidelines for the Bachelor of Arts available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None
History 1013
Critical Reading and Writing: Canada introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on Canada. All sections of this course follow CRW guidelines available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None

History 1014
Critical Reading and Writing: The United States introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on the United States. All sections of this course follow CRW guidelines available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None

Notes:

1. History students may use only one first-year course to meet the requirements of their major or minor.

History 1015
Critical Reading and Writing: Social and Cultural History introduces students to reading and writing skills required for success in university, including the analysis of scholarly literature and primary sources. Significant class time is spent on instruction in these skills. Students practice analytical reading and writing through class discussion and assignments on themes in Social and Cultural History. All sections of this course follow CRW guidelines available at www.mun.ca/arts/crw.

Lectures: Three hours per week
Prerequisite: None
Human Kinetics & Recreation

**HKR 1000**  
**Fitness and Wellness** is an introduction to the concepts of fitness and wellness and the relationships among physical activity, fitness, wellness, quality of life and longevity.  
**Lectures:** Three hours per week  
**Prerequisite:** None  
**Note:** This course is not applicable towards the human kinetics and recreation (co-operative), kinesiology or physical education degrees offered by the School.

**HKR 1001**  
**Resistance Training for Health and Activity** is an introduction to resistance training exercises, programs and principles.  
**Lectures:** Three hours per week  
**Prerequisite:** None  
**Note:** This course is not applicable towards the human kinetics and recreation (co-operative), kinesiology or physical education degrees offered by the School.

**HKR 2000**  
**Introduction to Physical Education, Recreation and Kinesiology** introduces the philosophical, scientific, socio-cultural, historical concepts and influences in kinesiology, physical education and recreation.  
**Lectures:** Three hours per week  
**Prerequisite:** None

**HKR 2300**  
**Growth and Development** is an introductory study of human growth and developmental factors and their influence on the learning of motor skills.  
**Lectures:** Three hours per week  
**Prerequisite:** None

**HKR 2311**  
**Introduction to Anatomy and Physiology** is designed to provide students with general overview of the anatomy and physiology of the human body. Students will explore skeletal, muscular, neural and cardiorespiratory systems in addition to a very brief introduction to cell structure and ‘cellular’ muscle function.  
**Notes:**

1. HKR 2311 is not applicable towards the human kinetics and recreation (co-operative), kinesiology or physical education degrees offered by the School  
2. Students cannot receive credit for HKR 2311 and 2310 or 2320
HKR 2500
Diversity & Inclusion provides students with a broad multi-disciplinary perspective on diversity and inclusion for a global society through discussion of theory, research, and practice. We will explore how elements of the social structure construct categories of race, class, gender, sexuality, ability, size, religion, and age have been transformed into systems of oppression and privilege.
Lectures: Three hours per week
Prerequisite: None

HKR 2515
Social Psychology of Leisure introduces the personality and social factors that shape how people experience leisure. Course materials will focus on life cycle theory, intrinsic and extrinsic motivation, perceived freedom, constraints theory and other social psychological theory related to leisure.
Lectures: Three hours per week
Prerequisite: None

HKR 2505
Recreation Programming and Evaluation introduces the student to a variety of methodologies, skills and materials for planning, developing, implementing and evaluating professional recreation programs for diverse populations in a variety of settings.
Lectures: Three hours per week
Prerequisite: None

HKR 2585
Foundations of Therapeutic Recreation is designed to examine a variety of aspects of therapeutic recreation from both a practical and theoretical prospective. Topics will include the history, philosophies and theories underlying therapeutic recreation, therapeutic recreation models, essential skills for therapeutic recreationists and ethical considerations for therapeutic recreation. Diverse groups (i.e. adults, youth, disadvantaged and disabled) and settings (i.e. community, schools, institutions and workplace) suitable for therapeutic recreation will be discussed.
Lectures: Three hours per week
Prerequisite: None
Languages

Language 1100
Elementary Italian I is for beginners in Italian. Introduction to the fundamentals of Italian grammar, with particular attention to the acquisition of basic skills in oral and written communication. All sections of this course follow the Language Study guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Lectures: Four hours per week
Laboratory: One hour per week
Prerequisite: None

Language 1101
Elementary Italian II is a continuation of Elementary Italian I. All sections of this course follow the Language Study guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Lectures: Four hours per week
Laboratory: One hour per week
Prerequisite: Language 1100

Language 1200
Introduction to Irish Culture and Speaking is an introduction to Irish culture, and to speaking and listening to Irish Gaelic. Students develop familiarity with spoken and aural Irish through practice conversations. Discussion and pronunciation exercises are balanced with exposure to Irish culture, including songs, music, plays, films, television, radio, video and oral storytelling. Links between Ireland, Canada and Newfoundland and Labrador are investigated. Prior familiarity with Ireland or Irish Gaelic is not required.

Lectures: Three hours per week
Prerequisite: None
Note: This course may not be used towards the Bachelor of Arts Language Study Requirement

Language 1201
Introduction to Irish Writing and Cultural Connections is an introduction to Irish literature and to the Irish Gaelic written word. Students will examine the nature of writing in modern sources such as Irish-language newspapers, magazines and websites, balanced with works by popular Irish authors. Word formation, sentence structure, basic grammar, reading, spelling, and structures are discussed. The course also explores Irish connections with Newfoundland and Labrador, such as places, personal names and cultural practices.

Lectures: Three hours per week
Prerequisite: None. Prior completion of Language 1200 is not required.
Note: This course may not be used towards the Bachelor of Arts Language Study Requirement
Language 1300
Introduction to Japanese I is an introduction to the Japanese language. It aims to develop communication skills based on the fundamentals of Japanese grammar, vocabulary, and conversation. Students will acquire speaking and listening proficiency, reading skills to understand short, simple written materials, and writing skills to write short paragraphs in Hiragana and Katakana writing scripts. Students also explore Japanese culture and traditions. No prior knowledge of Japanese is assumed. All sections of this course follow the Language Study guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

Language 1301
Introduction to Japanese II is a continuation of Japanese I. Students will acquire speaking and listening proficiency, reading skills, writing skills to be able to write short paragraphs and about 43 Kanji. Students will continue to explore Japanese culture and traditions. Sections of this course follow the Language Study guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: Language 1300

Law & Society

Law and Society 1000
Law, Democracy and Social Justice examines the nature and aims of democracy and contemporary issues related to social justice through a law and society perspective.
Lectures: Three hours per week
Prerequisite: None

Linguistics

Linguistics 1100
Introduction to Linguistics is a general introduction to linguistic concepts which are important for understanding the nature of language and its function for communication. Topics include: languages as structured systems; the systematicity of language change; the classification of languages into families and their geographical distribution; language, the brain, and language disorders; the acquisition of language; and human vs animal communication.
Lectures: Three hours per week
Prerequisite: None
**Linguistics 1103**
*Introduction to Linguistic Analysis*: Syntax is an introduction to the study of grammatical patterns in the structure of phrases and sentences. This course provides students with the tools to analyze phrase structure and syntactic constituency in English and other languages. Theoretical topics covered include case theory and agreement, principles of thematic role assignment, and different types of syntactic movement.

**Lectures**: Three hours per week  
**Prerequisite**: None

**Linguistics 1104**
*Introduction to Linguistic Analysis*: Phonology is an introduction to the study of sound patterns in human languages. Basic empirical and theoretical issues in phonology are demonstrated through the analysis of data selected from English and other languages. Theoretical concepts surveyed include phonological features and contrasts, and syllable structure. These are examined through the study of allophony, allomorphy, and processes such as assimilation and neutralization.

**Lectures**: Three hours per week  
**Prerequisite**: None

**Linguistics 1105**
*The Wonder of Words* is an introduction to the structure of words. This course presents methods of linguistic analysis through an in-depth study of English word origins. The French, Latin and Greek origins of technical and scientific words are studied, together with the ways that these words may change in structure, sound, and meaning. The course also provides an introduction to etymology, to writing systems and transliteration, and to the use of dictionaries.

**Lectures**: Three hours per week  
**Prerequisite**: None

**Linguistics 1155**
*Linguistics for Language Learners* provides a thorough grounding in the linguistic concepts and terminology involved in university-level second language learning.

**Lectures**: Three hours per week  
**Prerequisite**: None  
**Note**: Students may receive credit for only one of Linguistics 1100 and 1155.
Linguistics 2060
**Aboriginal Languages of Eastern Canada** is an overview of the Aboriginal languages of three language families of Eastern Canada: EskimoAleut (Inuttitut) and Algonquian (Innu-aimun, Mi'kmaq, MaliseetPasmaquoddy and Beothuk) and Iroquoian (Mohawk) with respect to both linguistic structure and current vitality. The course also reviews a history of language suppression and revitalization efforts, within the context of the larger issues of minority language attrition and maintenance.

**Lectures:** Three hours per week  
**Prerequisite:** None

Linguistics 2210
**Language in Newfoundland and Labrador: An Introduction to Linguistic Variation** examines linguistic variation and language change in the languages of Newfoundland and Labrador. Topics covered include the concept of variation within language, both regional and social, the chief causes of such variation, and some of its societal consequences. As a Quantitative Reasoning course, practical workshops and assignments focus on producing a final scientific research report using quantitative analysis, graphical representation of numerical data, and logical reasoning involving numbers. All sections of this course follow QR guidelines for the Bachelor of Arts available at [www.mun.ca/hss/qr](http://www.mun.ca/hss/qr).

**Lectures:** Three hours per week  
**Prerequisite:** None

Linguistics 2212
**Language and Gender** explores gender, sexuality and language and their relationship to culture, power, performance, interaction, social networks, language change, and language in the school and workplace. The course introduces theoretical perspectives, methodologies, and research findings, from an early focus on gender difference to more recent work on how language helps people create and perform gender and sexuality.

**Lectures:** Three hours per week  
**Prerequisite:** None
Linguistics 2220

Linguistics and Law is an overview of the many relationships between linguistics and the judicial process. Topics to be covered include: the language of legal texts, and the Plain English movement; language use in legal settings (such as eyewitness testimony, jury instructions, and the language of lawyer-client interactions); the legal disadvantages which language may impose on speakers of minority languages and non-standard dialects; and the emerging discipline of forensic linguistics (which deals with such issues as voice and authorship identification, and linguistic interpretation of evidence).

**Lectures:** Three hours per week

**Prerequisite:** None

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Mathematics

Selection of a mathematics course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

**Mathematics 1000**

Calculus I is an introduction to differential calculus, including algebraic, trigonometric, exponential, logarithmic, inverse trigonometric and hyperbolic functions. Applications include kinematics, related rates problems, curve sketching and optimization.

**Lectures:** Four hours per week

**Prerequisite:** Mathematics 1090 or a combination of placement test and high school advanced mathematics scores acceptable to the department.

**Note:** Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

**Mathematics 1001**

Calculus II is an introduction to integral calculus, including Riemann sums, techniques of integration and improper integrals. Applications include exponential growth and decay, area between curves and volumes of solids of revolution.

**Lectures:** Three hours per week

**Prerequisite:** Mathematics 1000
Mathematics 1050
Finite Mathematics I covers topics which include sets, logic, permutations, combinations and elementary probability.

**Lectures:** Four hours per week

**Prerequisite:** A combination of placement test and/or high school mathematics scores acceptable to the department

**Note:** Students who have already obtained six or more credit hours in mathematics or statistics courses numbered 2000 level or above should not register for this course and cannot receive credit for it.

Mathematics 1051
Finite Mathematics II covers topics which include elementary matrices, linear programming, elementary number theory, mathematical systems and geometry.

**Lectures:** Four hours per week

**Prerequisite:** A combination of placement test and/or high school mathematics scores acceptable to the department

**Note:** Students who have already obtained six or more credit hours in mathematics or statistics courses numbered 2000 level or above should not register for this course and cannot receive credit for it.

Mathematics 109A/B
Introductory Algebra and Trigonometry is a two-semester course which provides students with the essential prerequisite elements for the study of an introductory course in calculus, at a slower pace than Mathematics 1090. Topics include algebra, functions and their graphs, exponential and logarithmic functions, trigonometry, polynomials, and rational functions.

**Lectures:** Four hours per week

**Prerequisite:** A combination of placement test and high school mathematics scores acceptable to the Department

**Note:** Students will not receive credit for Mathematics 1090 A/B if they have previously received credit or are currently registered for Mathematics 1090, 1000 or 1001.
Mathematics 1090

Algebra and Trigonometry 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.

Lectures: Four hours per week

Prerequisite: A combination of placement test and/or high school mathematics scores acceptable to the department

Note: Students will not receive credit for Mathematics 1090 if they have previously received credit or are currently registered for Mathematics 1000 or 1001.

Mathematics 2050

Linear Algebra I includes the topics: Euclidean n-space, vector operations in 2- and 3-space, complex numbers, linear transformations on n-space, matrices, determinants and systems of linear equations.

Lectures: Three hours per week

Prerequisite: A combination of placement test and high school advanced mathematics scores acceptable to the department; or three credit hours in a first-year mathematics course

Medieval Studies

Medieval Studies 1000

The Cultural Legacy of the Middle Ages will survey the formative cultures of the Middle Ages — Latin, Celtic, Arabic — as well as the rise of the new vernacular cultures, English, Germanic and Romance. Literary trends such as the reliance on authority, the emergence of national epic and the development of court literature will be studied. The course examines the interplay of all the arts — literature, music, art and architecture.

Lectures: Three hours per week

Prerequisite: None

Medieval Studies 1120

Introductory Latin I (same as Classics 1120) familiarizes students with the basics of the Latin language. Students will learn how to read simple narratives and short poems in Latin and examine the connections between language and culture. Evaluation will focus largely on comprehension of written Latin. All sections of this course follow the Language Study Course Guidelines available at www.mun.ca/hss/ls.

Lectures: Three hours per week

Prerequisite: None

Note: Students can receive credit for only one of Medieval Studies 1120 and Classics 1120.
Medieval Studies 1121

Elementary Latin II (same as Classics 1121) continues to familiarize students with the Latin language and Roman culture and society. Students will acquire a broad vocabulary, learn to read more complex passages of prose and poetry in Latin, and gain insights into key social concepts through study of language. All sections of this course follow the Language Study Course Guidelines available at www.mun.ca/hss/ls.

Lectures: Three hours per week

Prerequisite: Medieval Studies 1120 or Classics 1120

Note: Students can receive credit for only one of Medieval Studies 1121 and Classics 1121.

Medieval Studies 1130

Introductory Ancient Greek (same as Classics 1130) familiarizes students with the basics of the Ancient Greek language. Students will master the Ancient Greek alphabet, learn how to read simple narratives in Ancient Greek, and examine the connections between language and culture. Evaluation will focus largely on comprehension of written Ancient Greek. All sections of this course follow the Language Study Course Guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Lectures: Three hours per week

Prerequisite: Medieval Studies 1130 or Classics 1130

Note: Students can receive credit for only one of Medieval Studies 1130 and Classics 1130.

Medieval Studies 1131

Introductory Ancient Greek II (same as Classics 1131) continues to familiarize students with the Ancient Greek language. Students will acquire a broad vocabulary, learn to read more complex passages of prose and poetry, and gain insights into key social concepts through study of language. All sections of this course follow the Language Study guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Lectures: Three hours per week

Prerequisite: Medieval Studies 1130 or Classics 1130

Note: Students can receive credit for only one of Medieval Studies 1131 and Classics 1131.

Medieval Studies 2001

Medieval Europe to 1050 (same as History 2320) is a survey of the economic, social, political and cultural developments of the early Middle Ages.

Lectures: Three hours per week

Prerequisite: None

Note: Students can receive credit for only one of Medieval Studies 2001 and History 2320
Medieval Studies 2002
Medieval Europe, 1050 to the Reformation (same as History 2330) is a survey of the economic, social, political and cultural developments of Europe in the high and late Middle Ages.

Lectures: Three hours per week
Prerequisite: None
Note: Students can receive credit for only one of Medieval Studies 2002 and History 2330.

Medieval Studies 2205
History of Medieval Philosophy (same as Philosophy 2205 and Religious Studies 2205) examines and traces the historical developments of a number of philosophical themes, questions, and ideas throughout medieval philosophy by reading, analyzing, and discussing selected primary texts from philosophers and theologians from the 4th to 14th centuries. Authors may include Augustine, Proclus, Boethius, Al-Farabi, Ibn Sina, Anselm, Ibn Rushd, Maimonides, Aquinas, Bonaventure, Scotus, and Ockham, among others.

Lectures: Three hours per week
Prerequisite: None
Note: Students can receive credit for only one of Medieval Studies 2205, Philosophy 2205 and Religious Studies 2205.

Music
The following music courses are available to students who have not been admitted to the School of Music and are appropriate for students with little or no musical background:

Music 1105
Elements of Music I is an introductory music theory and aural skills course focusing on reading, writing and hearing basic and intermediate music rudiments that are associated with common practice Western art music. Topics include: pitch and rhythm, intervals, scales, chords, keys, time signatures, and musical terms. Emphasis will be placed on the aural comprehension of all pertinent topics.

Prerequisite: None
Note: Credit may be obtained for only one of Music 1105 and Music 1120

Music 1106
Elements of Music II is a continuation of Elements of Music I. This course will focus on advanced rudiments and basic harmony with an emphasis on the aural comprehension of all pertinent topics.

Prerequisite: 1105 or permission of the instructor
Note: Credit may be obtained for only one of Music 1105 and Music 1120
Music 1120
Rudiments I is an introductory course in music rudiments and theory, including basic aural skills.
Lectures: Three hours per week
Prerequisite: None
Credit hours: Three
Notes:
1. Credit for this course may not be applied to the Bachelor of Music degree.
2. Music 1120 is also available online.

Music 2011
North American Popular
Music examines the development of North American popular music from its origins in the mid-nineteenth century to the present. The course examines major musical genres, their historical roots, their musical characteristics, the influences that shaped them and the artists who defined them. It explores sociopolitical issues embedded in popular music, as well as how music has evolved to express new conceptions of self and community, social anxieties, tensions and ideals. No prior musical knowledge is required.
Lectures: Three hours per week
Prerequisite: None
Credit hours: Three
Note: Credit for this course may not be applied to the bachelor of music degree.

Music 2012
Understanding Classical Music: Introduction Through Guided Listening is a course designed to enhance and develop listening skills and an understanding of the basic elements of music. Form and musical style in Western classical music will be explored within a cultural and historical context. Through guided listening, the student will be exposed to a variety of musical styles and traditions. This course has a strong listening component. The ability to read music is not required.
Lectures: Three hours per week
Prerequisite: None
Credit hours: Three
Note: Credit for this course may not be applied to the bachelor of music degree.

Music 2013
Twentieth Century Musicals is a survey on 20th century musical theatre. Selected works, presenting different styles and periods, will be examined in detail. There will be a strong, required listening/viewing component to this course. The ability to read music is not required.
Lectures: Three hours per week
Prerequisite: None
Credit hours: Three

Also available as a distance education course.
Notes:

1. Credit for this course may not be applied to the bachelor of music degree.
2. Credit can be received for only one of Music 2013, 3007 or English 2013.

Music 2014
Introduction to World Music provides an introduction to the musics of selected cultures and contemporary intercultural communities. Drawing on topics and issues in ethnomusicology, it focuses on musical practices, beliefs and techniques. It is intended to develop listening skills, broaden musical horizons, as well as to enable a deeper understanding of the way music functions in relation to social groups and individual lives.

Lectures: Three hours per week
Prerequisite: None
Credit hours: Three

Music 2021
Newfoundland and Labrador
Folksinging is an introduction to the sociocultural contexts, functions and meanings of folksong in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral and scholarly histories, the course offers practical instruction by a tradition-bearer in the singing of traditional Newfoundland and Labrador tunes and texts, using the techniques of aural transmission and assisted by the written medium where appropriate.

Lectures: Three hours per week
Prerequisite: Permission of the director
Credit hours: Three

Notes:

1. No more than three credits from the 2021-2023 series may be applied toward the bachelor of music degree as unspecified music electives.
2. Music 2021 is also available online.

Music 2022
Newfoundland and Labrador
Fiddling is an introduction to the sociocultural contexts, functions and meanings of fiddling in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral histories, the course offers practical instruction by a tradition-bearer on the fiddle, using the techniques of aural transmission and assisted by the written medium where appropriate.

Lectures: Three hours per week
Prerequisite: Permission of the director
Credit hours: Three

Note: No more than three credits from the 2021-2023 series may be applied toward the bachelor of music degree as an unspecified music elective.
Music 2023
Newfoundland and Labrador
Accordion is an introduction to the sociocultural contexts, function and meanings of accordion music in Newfoundland and Labrador. Proceeding from this contextual base drawn from oral histories, the course offers practical instruction by a tradition-bearer on the button accordion, using the techniques of aural transmission and assisted by the written medium where appropriate.

Lectures: Three hours per week
Prerequisite: Permission of the director
Credit Hours: Three

Note: No more than three credits from the 2021-2023 series may be applied toward the bachelor of music degree as an unspecified music elective.

The following large ensemble courses are available to non-music majors with appropriate background, subject to the approval of the instructor:

Music 2611
Festival Choir requires three hours rehearsal per week. Attendance is required.
Prerequisite: Approval of the instructor
Credit Hours: One

Music 2612
Chamber Choir requires three hours rehearsal per week. Attendance is required.
Prerequisite: An audition. Contact the School of Music.
Credit Hours: One

Music 2613
Chamber Orchestra requires three hours rehearsal per week. Attendance is required.
Prerequisite: An audition. Contact the School of Music.
Credit Hours: One

Music 2614
Concert Band requires three hours rehearsal per week. Attendance is required.
Prerequisite: Approval of the instructor
Credit Hours: One

Music 2615
Jazz Ensemble requires three hours rehearsal per week. Attendance is required.
Prerequisite: An audition. Contact the School of Music.
Credit Hours: One
Music 2616
Opera Workshop requires three hours rehearsal per week. Attendance is required.
Prerequisite: An audition. Contact the School of Music.
Credit Hours: One

Music 2619
Wind Ensemble requires three hours rehearsal per week. Attendance is required.
Prerequisite: An audition. Contact the School of Music.
Credit Hours: One

Some courses in musicologies and music theory are available to non-music majors who have fulfilled the prerequisites. Please note that spaces in these classes are made available to non-B.Mus. students only after all B.Mus. students have registered. These may include:

Music 1005
Thinking and Writing about Music I is designed to develop listening, critical thinking, research and writing skills through selected cross-cultural topics and themes exploring the relationship between music and society. The course will introduce the student to the terminology of music history and the concepts of genre, musical style and style periods. This course has strong listening and writing components. The ability to read music is required.
Lectures: Three hours per week
Prerequisite: Music 1120 or successful completion of the theory placement test or admission to the B.Mus. degree program. The ability to read music is required.
Credit Hours: Three
Note: Credit can be received for only one of Music 1005, Music 2012, or the former Music 1002.

Music 1006
Thinking and Writing about Music II is a continuation of Music 1005.
Lectures: Three hours per week
Prerequisite: Music 1005
Credit Hours: Three
Note: This course has strong listening and writing components.
Music 1107
Materials & Techniques of Tonal
Music I is the study of the basic materials of tonal music; introduction to melody writing and phrase structures; introduction to voice-leading with emphasis on chorale style; analysis and composition of smaller formal elements.
Lectures: Three hours per week
Prerequisite: Music 1106 or successful completion of the Theory Placement Test
Co-requisite: Music 1107
Credit Hours: Three

Music 1108
Materials & Techniques of Tonal
Music II is a continuation of Music 1107. Harmonic vocabulary is expanded to include all diatonic triads and seventh chords, with an introduction to chromatic harmony; phrase expansions and contractions; analysis and composition of binary and ternary forms.
Lectures: Three hours per week
Prerequisite: Music 1107
Co-requisite: Music 1118
Credit Hours: Three
Note: Credit may not be obtained for more than one of Music 110B, 1108 and 1114.

Music 1117
Aural Skills I is a course on sight-singing and dictation.
Lectures: Two hours per week
Prerequisite: Music 1106 or successful completion of the Theory Placement Test
Co-requisite: Music 1107
Credit Hours: One

Music 1118
Aural Skills II is a continuation of Music 1117.
Lectures: Two hours per week
Prerequisites: Music 1107, 1117
Credit Hours: One

The following courses are restricted to students admitted to a program in the School of Music:

Music 1700
Introduction to Music Technology meets one hour per week and provides a practical introduction to useful computer tools for musicians, such as music notation software, basic digital audio editing and new media.
Credit Hours: One
Co-requisite: Music 140A/B
Music 140 A/B
Applied Study requires one hour per week of individual instruction (vocal or instrumental). Required attendance at School of Music recitals.
Lectures: One-hour private lesson per week
Prerequisite: Music 140A is a prerequisite for Music 140B
Co-requisite: in each semester for students whose applied study is voice, piano, organ or guitar: one of Music 2611, 2612 and in each semester for all other applied studies: one of Music 2611 or 2612, and one of Music 2613, 2614, 2615, 2619, 2620.
Credit Hours: Four over two semesters

Music 2401
Functional Keyboard I is an introduction to practical keyboard skills for students whose principal applied study is not piano or organ. Functional accompaniment, transposition and score reading are emphasized. This course meets one hour per week.
Credit Hours: none
Prerequisite: Music 1108, successful completion of the Piano Proficiency Test
Note: Students may gain credit for only one of Music 2401 or the former Music 1127. Music 2401 may not be taken for credit by students whose principal applied study is a keyboard instrument.

Music 2700
Lyric Diction I is a study of English, German, French and Italian lyric diction. The International Phonetic Alphabet will be introduced and applied to singing in these four languages.
Credit Hours: One
Prerequisite: Open only to students whose principal applied study is voice

Music 2411
Advanced Functional Keyboard I is an introduction to practical keyboard skills for students whose principal applied study is piano or organ. Functional accompaniment, transposition and score reading are emphasized. This course meets one hour per week.
Credit Hours: none
Prerequisite: Music 1108, permission of the instructor for students whose principal applied study is not a keyboard instrument
Note: Students may gain credit for only one of Music 2411 or the former Music 1137
Nursing

Nursing 1002
Anatomy and Physiology I explores normal human anatomy and physiology. Students will develop an understanding of the interrelationships of all body systems, from the chemical and cellular levels to the level of the whole organism. Special emphasis is given to the integumentary, skeletal, muscular, nervous, and endocrine systems.

**Lectures:** Three hours per week

**Laboratory:** Two hours per week

**Prerequisite:** Science 1807 and 1808

Nursing 1003
Developing Therapeutic Relationships focuses on the application of caring theory to interpersonal communications and relational practice. It emphasizes the development of the role of communicator in individual and group experiences and in professional relationships. Utilizing an experiential model, laboratory experiences focus on self-awareness, interpersonal skills and group dynamics.

**Lectures:** Three hours per week

**Laboratory:** Two hours per week

**Co-requisite:** Nursing 1004

Nursing 1004
Nursing Foundations introduces students to the profession of nursing. The metaparadigm concepts of person, environment, health and nursing will serve as a fundamental framework for the exploration of nursing and health care systems.

**Lectures:** Three hours per week

**Prerequisite:** None

Nursing 1012
Anatomy and Physiology II explores normal human anatomy and physiology. Students will develop an understanding of the interrelationships of all body systems, from the chemical and cellular levels to the level of the whole organism. Special emphasis is given to the circulatory, respiratory, urinary, digestive, and reproductive systems, including pregnancy and delivery.

**Lectures:** Three hours per week

**Laboratory:** Two hours per week

**Prerequisite:** Nursing 1002, Science 1807 and 1808
Nursing 1014  
**Health Assessment** explores concepts related to the health assessment of individuals across the lifespan. The course will focus on the role of the nurse and development of competencies in health history interviewing, physical examination, interpretation of findings, and documentation.  
**Lectures:** Three hours per week  
**Laboratory:** Two hours per week  
**Co-requisite:** Nursing 1012

Nursing 1015  
**Health Promotion** explores nursing concepts and theories pertaining to health promotion/protection throughout the lifespan. Content includes principles of teaching/learning, introduction to community population health and primary health care concepts and the determinants of health.  
**Lectures:** Three hours per week  
**Prerequisite:** Nursing 1003 and Nursing 1004

Nursing 1016  
**Caring for the Older Adult:**  
**Theory** explores concepts and issues applicable to the health, wellbeing and nursing care/needs of the older adult. Emphasis will be placed on theories, normal physical changes, common chronic conditions, psychosocial, and ethical / legal issues associated with aging.  
**Lectures:** Three hours per week  
**Prerequisite:** 1002, 1003 and 1004  
**Co-requisite:** Nursing 1012, 1014 and 1015 and 1520

Nursing 1017  
**Fundamental Psychomotor Competencies** provides students with an opportunity to acquire beginning psychomotor competencies that are necessary for the provision of client comfort and safety.  
**Credit Hours:** one  
**Laboratory:** Two hours per week  
**Co-requisite:** Nursing 1002, 1003 and 1004

Nursing 1520  
**Caring for the Older Adult:**  
**Practice** allows students to integrate knowledge and practice the competencies acquired to date. The focus is the promotion, protection and maintenance of health for older individuals. During this clinical course, students will have the opportunity to provide care to clients with various health needs.  
**Clinical:** 96 hours during the semester  
**Prerequisite:** Nursing 1002, 1003, 1004 and 1017  
**Co-requisite:** Nursing 1012, 1014, 1015 and 1016
Ocean Sciences

Ocean Sciences 1000
Exploration of the World Ocean is an introductory course covering the major ocean sciences (biology, chemistry, geology, physics) at a level sufficient for science majors but accessible to non-science majors. It explores phenomena occurring from the shoreline to the abyss and from equatorial to Polar Regions. It also examines principles of marine ecology as well as how the marine environment affects humans and vice versa. The course is offered either in a blended format (combining face-to-face lectures and online interactive activities in the form of virtual oceanographic expeditions) or exclusively online.

Lectures: Up to 1.5 hours per week
Online Interactive Activities: Up to three hours per week
Prerequisite: None

Ocean Sciences 2000
Introductory Biological Oceanography provides a general understanding of the biological processes that occur in coastal and oceanic environments. It introduces students to the major groups of bacteria, phytoplankton, invertebrates and fish, emphasizing the biotic and abiotic factors controlling primary production and marine biomass. It shows how the physical, chemical, and geological environments interact with biology to define processes and patterns affecting nutrients and life in marine ecosystems.

Lectures: Three hours per week
Prerequisite: Ocean Sciences 1000 and a 1000-level course in one of Biology, Chemistry, Earth Sciences or Physics

Ocean Sciences 2001
Introduction to Sustainable Fisheries and Aquaculture introduces students to the breadth of aquaculture and fisheries science and the variety of animal species cultured and harvested. Basic aspects of aquaculture and fisheries and the links between the two are covered, including production systems, capture fisheries, environmental interactions, and the physiology, ecology and reproduction of finfish and shellfish in the context of their culture and harvest.

Lectures: Three hours per week
Prerequisite: Ocean Sciences 1000 or Biology 1002
Ocean Sciences 2100
Introductory Chemical Oceanography (same as Chemistry 2610) provides an introduction to the fundamental chemical properties of seawater and the processes governing the concentrations of elements and compounds in the oceans. It is an introduction to the sources, distribution, and transformations of chemical constituents of the ocean, and their relation to biological, chemical, geological, and physical processes. Topics include: controls on average concentration of chemicals in the ocean; vertical and horizontal distributions of ocean constituents; air-sea interactions; production, export, and remineralization of organic matter; the ocean carbon cycle; human-induced changes; stable isotopes; and trace elements.

**Lectures:** Three hours per week

**Prerequisite:** Chemistry 1011 or 1051 which may be taken concurrently or Chemistry 1001

**Philosophy**

**Philosophy 1002**
Introduction to Philosophy is a general introduction to the study of Philosophy both as a contemporary intellectual discipline and as a body of knowledge. It introduces Philosophy’s forms of enquiry, the nature of its concepts, and its fields (epistemology, logic, metaphysics, aesthetics, ethics, and political philosophy) by way of the critical study of primary works by major philosophers. Authors may include Plato, Aristotle, Aquinas, Descartes, Hume, Kant, Nietzsche, de Beauvoir, Arendt.

**Lectures:** Three hours per week

**Prerequisite:** None

**Philosophy 1005**
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. This course is of particular value to students interested in the Social Sciences and Humanities.

**Lectures:** Three hours per week

**Prerequisite:** None
Philosophy 1010
Critical Reading and Writing in Philosophy of Human Nature provides an overview of foundational knowledge and skills to enable critical reading and writing at the university level by way of analysis and critique of selected conceptions and theories of human nature raised throughout the history of philosophy. All sections of this course follow the Critical Reading and Writing guidelines available at www.mun.ca/hss/crw.
Lectures: Three hours per week
Prerequisite: None

Philosophy 1011
Critical Reading and Writing in Ethics will focus on learning and practicing the fundamental skills required for university-level critical reading and writing that will prepare students for other Arts courses regardless of discipline. The course will focus on foundational skills in how to differentiate ethical questions (how ought we to live?) from other types of reasoning. All sections of this course follow the Critical Reading and Writing guidelines available at www.mun.ca/hss/crw.
Lectures: Three hours per week
Prerequisite: None

Philosophy 1100
Critical Thinking aims to impart critical analytic skills: i.e., the ability to recognize good and bad arguments, the ability to explain why a particular argument is good or bad, and a general understanding of why a good argument ought to persuade and a bad argument ought not to persuade.
Lectures: Three hours per week
Prerequisite: None

Physics
Selection of a physics course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

Physics 1020
Introductory Physics I is an algebra-based introduction to Newtonian mechanics. Topics covered include motion in one and two dimensions, Newton’s laws, momentum, energy and work, and rotational motion. Previous exposure to physics would be an asset but is not essential.
Lectures: Three hours per week
Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.
Tutorials/Problem Sessions: Scheduled during weeks when there are no laboratories, at the instructor’s discretion.
Prerequisite: Level III Advanced
Mathematics; or Mathematics 109 A/B or 1090 (either of which may be taken concurrently), Science 1807 and 1808. It is recommended that students have completed at least one high school physics course.

Notes:

1. Students can receive credit for only one of Physics 1020 and 1050.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Physics 1021
Introductory Physics II is an algebra-based introduction to oscillations, fluids, wave motion, electricity and magnetism, and circuits.

Lectures: Three hours per week
Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

Tutorials/Problem Sessions: Scheduled during weeks when there are no laboratories, at the instructor’s discretion.

Prerequisite: Physics 1020 or 1050, Mathematics 109 A/B or 1090 or 1000 (either of which may be taken concurrently), Science 1807 and 1808.

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Physics 1050
General Physics I: Mechanics is a calculus-based introduction to mechanics. The course emphasizes problem solving, beginning with a review of vectors and one-dimensional kinematics. The main part of the course covers motion in two dimensions, forces and Newton’s Laws, energy, momentum, rotational motion and torque, and finally oscillations.

Lectures: Three hours per week
Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

Tutorials/Problem Sessions: Scheduled during weeks when there are no laboratories, at the instructors’ discretion.

Prerequisite: Mathematics 1000 (which may be taken concurrently), Science 1807 and 1808.

Notes:

1. Students can receive credit for only one of Physics 1020 and 1050.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
Physics 1051

General Physics II: Oscillations, Waves, Electromagnetism is a calculus-based introduction to oscillations, wave motion, and electromagnetism. Topics include: simple harmonic motion; travelling waves, sound waves, and standing waves; electric fields and potentials; magnetic forces and fields; electric current and resistance; and electromagnetic waves.

Lectures: Three hours per week
Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

Tutorials/Problem Sessions: Scheduled during weeks when there are no laboratories, at the instructor's discretion.

Prerequisite: Physics 1020 (with a minimum grade of 70 per cent), 1021 or 1050, Mathematics 1001, Science 1807 and 1808. Mathematics 1001 may be taken concurrently.

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Police Studies

Police Studies 1000

An Introduction to Policing in Canada will introduce students to different theories and models of policing as a profession and area of research. It will examine the organization of police services, their mandate and operation and provide an overview of the history and development of policing in Canada. Examples from Newfoundland and Labrador will be used where appropriate, and the various roles and responsibilities of the police in society will be discussed. Other topics of study include police decision making, exercise of powers, use of discretion, recruitment and training, the professional role, organizational and operational stress and policing in a diverse society.

Lectures: Three hours per week

Prerequisite: None
**Police Studies 2200**

**Introduction to Corrections** introduces students to the Correctional Systems in Canada and their role in Canadian Criminal Justice. Topics covered in this course include: the evolution of punishment and corrections in Canada, the purpose of prison, the classification of federal prisoners, the prisoner subculture or ‘inmate’ code, violence inside prisons, and community corrections after full custody incarceration.

**Lectures:** Offered via distance  
**Prerequisite:** None

**Police Studies 2300**

**Criminological Inquiry** (Same as Sociology 2300) introduces students to sociological models and research methods for understanding the phenomenon of “crime”. As a background for developing theory, this course familiarizes students with the challenges associated with defining and researching “crime”. Along with a critical examination of the different theories and methods in criminology, students consider the implications for policy.

**Lectures:** Three hours per week  
**Co-requisite:** Sociology 1000  
**Note:** Students can receive credit for only one of Police Studies 2300 and Sociology 2300.

**Political Science**

**Political Science 1000**

**Introduction to Politics and Government** is an introduction to the study of politics, power, law, public policy and government, touching on major areas of political ideologies, institutions and current domestic and international political issues.

**Lectures:** Three hours per week  
**Prerequisite:** None. Suitable for students in all disciplines

**Political Science 1001**

**Critical Reading and Writing: Politics and Governance** provides an overview of foundational knowledge and skills to enable critical reading and critical writing at the university level. Students learn the elements of academic assessment of literature and information that is available in the library and/or online, and about the mechanics of analytical writing. The “politics and governance” content varies by instructor and is not repeated in any other political science course. All sections of this course follow CRW guidelines available at [www.mun.ca/hss/crw](http://www.mun.ca/hss/crw).

**Lectures:** Three hours per week  
**Prerequisite:** Students are encouraged to complete Political Science 1000.
Political Science 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.
Lectures: Three hours a week
Prerequisite: None

Psychology

Psychology 1000
Introduction to Psychology is the first half of a two semester introduction to psychology as a biological and social science. Topics include history, research methodology, behavioural neuroscience, sensation and perception, consciousness, learning and memory.
Note: Students who have written the College Board Advanced Placement Biology exam should consult the Advanced Placement Policy chart for possible awarding of credit.
Lectures: Three hours per week
Prerequisite: None

Psychology 1001
Introduction to Psychology is the second half of a two-semester introduction to psychology as a biological and social science. Topics may include emotion, motivation, stress and health, personality and individuality, psychological disorders and treatment and social psychology.
Lectures: Three hours per week
Prerequisite: Psychology 1000

Notes:
1. Psychology 1000 and 1001 are prerequisites for all other psychology courses.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Religious Studies

Religious Studies 1000
The Religions of the World is an introduction to the beliefs and practices of the world’s religions.
Lectures: Three hours per week
Prerequisite: None

Religious Studies 1001
Critical Reading and Writing: Religion and Violence examines the relationship between religion(s) and violence from religious studies perspectives. Students learn the principles of scholarly analysis appropriate to the study of religious phenomena, the elements of academic assessment, and the mechanics of academic writing. Emphasis is placed on critical reading and writing, analyzing texts, evaluating sources, framing questions, organizing paragraphs, developing effective arguments, and
refining presentation of written work. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: None

Religious Studies 1040
Introduction to Chinese (Mandarin) I will introduce students to the basics of Chinese vocabulary, characters and grammar. Mandarin Chinese, the official dialect of China, Taiwan and Singapore, will be taught. This course is not intended for native speakers. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

Religious Studies 1041
Introduction to Chinese (Mandarin) II is a continuation of Religious Studies 1040. At the end of this course students should know over a hundred Chinese characters, which should enable them to read basic texts and carry on a simple conversation. This course is not intended for native speakers. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: Religious Studies 1040

Religious Studies 1050
Introduction to Biblical Hebrew I is designed to introduce students to the elements of Biblical Hebrew in order to prepare them for reading the Hebrew Bible/Old Testament in the original language. The emphasis will be upon learning the basic grammar and syntax of Biblical Hebrew. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

Religious Studies 1051
Introduction to Biblical Hebrew II is a continuation of Religious Studies 1050. The emphasis will be upon the reading of selected Hebrew texts. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: Religious Studies 1050
Religious Studies 1060
Sanskrit Language Study I is an introduction to the Sanskrit language, to the (Devanagari) alphabet, basic grammar and foundational vocabulary with a focus on developing skills needed to read and translate Sanskrit texts. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

Religious Studies 1061
Sanskrit Language Study II is a continuation of Sanskrit Language Study I. On completion of this course, students will have the ability to consult Sanskrit texts for research purposes. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

Russian

Russian 1000
Elementary Russian I provides an introduction to Russian grammar and a basic knowledge of the spoken and written language. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

Russian 1001
Elementary Russian II is a continuation of Elementary Russian I. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: Russian 1000 or equivalent

Russian 1050
The Making of Modern Russia develops a critical understanding of how new and old media (literature, film, and web-based media) reflect and inspire change in the history of modern Russia, with an orientation towards the contemporary moment.
Lectures: Three hours per week
Prerequisite: None
Russian 2900
Russian Culture I is a study of the evolution of Russian culture and Russian intellectual history up to 1917. Lectures include discussions of Russian art, music and film. Lectures are given in English.
Lectures: Three hours per week
Prerequisite: None

Russian 2901
Russian Culture II is a study of the evolution of Russian culture in the USSR and the post-Soviet period. Lectures include discussions of Soviet Russian art, music and film. Lectures are given in English.
Lectures: Three hours per week
Prerequisite: None

Notes:

1. Russian 1000 and 1001 are prerequisites for all other Russian courses, except Russian 2030, 2031, 2600, 2601, 2900, 2901, 3005, 3023 and 3910.

2. A number of courses may be of interest to incoming students. They require no prerequisites, the language of instruction is English throughout and they cover Russian culture and literature, for example, Russian 2600, 2601, 2900, 2901 and 3004. These five courses may not be used as part of the bachelor of arts requirement for two courses in a second language.

Science

Science 1807
Safety in the Scientific Laboratory introduces students to safety practices required for working in science laboratories where hazards are present. Normally, it will be taken before the start of the semester in which students take their first science laboratory course with this prerequisite, and it must be completed no later than the first Friday of the semester.
Credit hours: None
Lecture hours: This course is offered online; completion time estimated to be one hour

Science 1808
WHMIS introduces students to Newfoundland and Labrador’s Workplace Hazardous Material Information System (WHMIS). Normally, it will be taken before the start of the semester in which students take their first science laboratory course with this prerequisite, and it must be completed no later than the first Friday of the semester.
Credit hours: None
Lecture hours: This course is offered online; completion time estimated to be one hour
Social Work

Social Work 1710
Social Work Philosophy and Practice provides an overview of the historical development, philosophical orientation, basic values, principles and knowledge base and fields of practice of the profession. The course will examine critical social problems that impact societies with an emphasis on the quest for social justice at local, national and global levels.

Lectures: This course is offered online in the fall and winter semesters.
Prerequisite: None
Note: This is a prerequisite for ALL social work courses and is required for admission.

Sociology

Sociology 1000
Introduction to Sociology is an introduction to the concepts, principles and topics of sociology. This course is a prerequisite to most departmental courses.

Lectures: Three hours per week
Prerequisite: None

Sociology 2100
Social Inequalities introduces the subject of social inequality and stratification, examines social inequalities in historical perspective, reviews major theories about social inequalities, and considers key social developments in contemporary societies in the area of social inequalities.

Lectures: Three hours per week
Prerequisite: None

Sociology 2120
Technology and Society is an examination of the role of technology in society and society's role in shaping technology. 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.

Lectures: Three hours per week
Prerequisite: None

Sociology 2210
Communication and Culture is an examination of verbal and non-verbal systems of communication, and the influence of language on human cognition.

Lectures: Three hours per week
Prerequisite: None
Sociology 2230
Newfoundland Society and Culture focuses on social and cultural aspects of contemporary island Newfoundland.
Lectures: Three hours per week
Prerequisite: None

Sociology 2240
Canadian Society and Culture is a descriptive and analytic approach to the development of Canadian society and culture.
Lectures: Three hours per week
Prerequisite: None

Sociology 2250
Global Social Problems is a sociological analysis of contemporary world issues and social problems. All sections of this course follow the International Studies guidelines available at www.mun.ca/hss/IS.
Lectures: Three hours per week
Prerequisite: None

Sociology 2270
Families is a comparative and historical study of the family, and the range of variation in its processes and structure.
Lectures: Three hours per week
Prerequisite: None

Sociology 2290
Animals and Society introduces students to contemporary sociological approaches to the study of the relationship between human and non-human animals.
Lectures: Three hours per week
Prerequisite: None

Sociology 2300
Criminological Inquiry introduces students to sociological models and research methods for understanding the phenomenon of “crime”. As a background for developing theory, this course familiarizes students with the challenges associated with defining and researching “crime”. Along with a critical examination of the different theories and methods in criminology, students consider the implications for policy.
Lectures: Three hours per week
Prerequisite: None
Spanish

Spanish 1000
Introductory Spanish I is a course without prerequisites for students with no prior knowledge of the language. The fundamentals of Spanish are introduced through communicative and task-based activities that develop understanding, speaking, reading and writing. Aspects of Spanish culture are also presented. Group or individual practice in the language laboratory and conversation classes are also part of the course. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Lectures: Three hours per week
Prerequisite: None
Note: Students may be required to attend a 50 minute weekly practicum.

Spanish 1001
Introductory Spanish II is a continuation of Spanish 1000 with practice in the four language skills: understanding, speaking, reading and writing, and further exploration of Spanish culture through interactive classroom instruction and more laboratory and conversation practice. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.

Lectures: Three hours per week
Prerequisite: Spanish 1000 (or equivalent) or special authorization

Notes:

1. Free tutorial and conversation sessions are available and conducted by native Spanish-speaking or advanced student monitors.
2. The DLC (Digital Learning Centre) is an asset for reinforcing competencies.

Statistics

Statistics 1510
Statistical Thinking and Concepts examines the basic statistical issues encountered in everyday life, such as data collection (both primary and secondary), ethical issues, planning and conducting statistically-designed experiments, understanding the measurement process, data summarization, measures of central tendency and dispersion, basic concepts of probability, understanding sampling distributions, the central limit theorem based on simulations (without proof), linear regression, concepts of confidence intervals and testing of hypotheses. Statistical software will be used to demonstrate each technique.

Lectures: Three hours per week
Co-requisite: Mathematics 1000
Note: Statistics 1510 is intended for students with an interest in pursuing a major in statistics or mathematics.
Statistics 2500
Statistics for Business and Arts
Students covers descriptive statistics (including histograms, stem-and-leaf plots and box plots), elementary probability, random variables, the binomial distribution, the normal distribution, sampling distribution, estimation and hypothesis testing including both one and two sample tests, paired comparisons, correlation and regression, related applications.

**Lectures:** Three hours per week

**Laboratory:** one 90 minute laboratory per week. Statistical computer package will be used in the laboratory, but no prior computing experience is assumed

**Prerequisite:** Mathematics 1000 or six credit hours in first year courses in Mathematics or registration in at least semester three of a Bachelor of Nursing program or permission of the Head of Department

**Note:** Credit may be obtained for only one Statistics 2500, Statistics 2550, Psychology 2910 and 2925.

Statistics 2550
Statistics for Science Students is an introduction to basic statistics methods with an emphasis on applications to the sciences. Material includes descriptive statistics, elementary probability, binomial distribution, Poisson 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.

**Lectures:** Three hours per week

**Laboratory:** one 90 minute laboratory per week. Statistical computer package will be used in the laboratory, but no prior computing experience is assumed.

**Prerequisite:** Mathematics 1000

**Note:** Credit may be obtained for only one of Engineering 4421, Statistics 2500, Statistics 2550, Psychology 2910 and 2925.
**ACADEMIC SUPPORTS – ST. JOHN’S CAMPUS**

**Academic Advising**

The Academic Advising Centre (AAC) serves prospective, first-year, undeclared and students transitioning between programs at the undergraduate level. Working closely with multiple academic and administrative units, the AAC promotes and supports student success by helping you navigate your university journey.

The AAC:

- provides individualized academic advice by appointment and drop-in service;
- complies sample first-year program information and course descriptions in First Year Information;
- organizes various program information sessions;
- coordinates and hosts campus-wide advising learning series for advising professionals.

Advisors at the Centre can help with:

- exploring and identifying academic goals
- planning academic programs
- choosing courses that relate to goals and interests
- addressing academic concerns or questions
- explaining university policies and procedures
- providing referrals to relevant university resources.

**Hours of Operation**

**September - May**
8:30 a.m. - 4:15 p.m., Monday - Friday

**June - August**
8:30 a.m. - 3:45 p.m., Monday - Friday

Extended hours during registration periods.

**Location:** Science Building, SN 4053
**Email:** advice@mun.ca
**Phone:** 709 864 8801

**Chemistry First Year Help Centre**

The staff can help you with difficulties you may be having in first year chemistry or with your assignments. Study desks are provided.

However, if space is limited, or the staff is overwhelmed, you may be able to find additional assistance in the Chemistry Resource Room (C2010).

**Location:** Second Floor, Chemistry/Physics Building, Room C2022
Chemistry Resource Room

We offer assistance for Chemistry courses and laboratory related content problems to first year and second year. The room is staffed by Joe Antle, Cliff McCarthy and MUCEP Student Assistants.

**Location:** Second Floor, Chemistry/Physics Building C2010
**Phone:** 709 864-8085

Computer labs

The Commons
Queen Elizabeth II Library, main floor
Hours: For general access hours, check: thecommons.mun.ca.

Chemistry-Physics Building, C 2003
Hours: Monday – Friday from 9 a.m. – 5 p.m.
This is a general access lab and a classroom. The lab is available for general access when no classes are booked. Please check this link to see when classes are booked: www.mun.ca/cio/itservices/labs/computerlabs.php

Labnet accounts are required for The Commons and CP 2003. Students who have a my.mun.ca account can generate their own Labnet account, on or off campus. Here is the link for Labnet account generation: www.cs.mun.ca/labnet/login.html

Students will have space on their home drive (network drive) for files and the files stored there can be accessed from any Labnet computer on campus. Printing is accessed on Labnet printers through funds students put on their student card.

Computer Science Help Centre

Engineering Building, EN 2031C
Hours: www.mun.ca/computerscience
Telephone: Drop-in centre only

During academic terms, our instructional assistants hold scheduled hours to give help with 1000- and 2000-level laboratory courses, and student assistants (senior computer science majors) are available who can help with non-laboratory courses at the 2000, 3000 and 4000 levels. All staff will review general concepts and address any difficulties associated with computer science course work.
Computer Science Help Centre

Engineering Building, EN 2031C
Hours: www.mun.ca/computerscience
Telephone: Drop-in centre only

During academic terms, our instructional assistants hold scheduled hours to give help with 1000- and 2000-level laboratory courses, and student assistants (senior computer science majors) are available who can help with non-laboratory courses at the 2000, 3000 and 4000 levels. All staff will review general concepts and address any difficulties associated with computer science course work.

Digital Learning Centre

www.mun.ca/dlc

Schedule:
www.mun.ca/dlc/hours/sn4030.php

40 iMacs with headsets and microphones; academic and technical help during all open hours

The Digital Learning Centre (DLC) provides academic support to students in all Faculty of Humanities and Social Sciences disciplines, most frequently to those studying French or a second language such as German, Spanish, Russian, Italian or English as a second language. The DLC offers exciting interactive practice facilities to students wishing to improve their written and oral skills. The DLC is equipped with a large projection screen and software for technology-enhanced teaching and learning. Interactive websites linked to course textbooks and a variety of online exercises that students can do in this friendly and supportive environment reinforce what is learned in class.

Top five reasons to use the DLC:

- Get help while studying for language and other Humanities and Social Sciences courses
- Log time for academic work to fulfill the laboratory requirements of courses that have one
- Speak with student staff who have gone on study abroad programs
- We offer technical support for all of our resources and it’s a quiet place to study!

The DLC’s software and adaptive technology help make learning easier, enjoyable and memorable. We also offer conversation classes, which students find useful in helping them prepare for oral interviews in French, Spanish and German.

Schedules:
www.mun.ca/DLC/hours/conversation.php
Economics Help Centre

Arts Building, A 3095 Hours: posted each term
Telephone: Drop-in centre only

This help centre provides assistance with interpreting textbooks or course study guides, the clarification of textbook readings or lecture materials and offers help to students with assignments when approved by course instructor. Help is currently available only for Economics 1010 and 1020.

Engineering One Help Centre

Engineering Building, EN 3076

Hours: Monday-Saturday (schedule posted each term) Centre Co-ordinator: Adrian Dobre

This room and the computer facilities within are intended for students who are taking the first-year engineering courses: Engineering 1010, Engineering 1020, Engineering 1030 and Engineering 1040. Help is also available in support of Mathematics, chemistry, and physics. Assistance is available from the centre’s co-ordinator and from senior engineering students who are assigned to offer help.

French Help Centre

Science Building, SN 4049 Hours: posted each term
Telephone: 709 864 7636 (departmental office)

This Centre is staffed by senior students. Hours of operation are announced each semester in all first-year classes, posted in the Modern Languages corridor on the fourth floor of the Science Building, on the door of SN 4035 and in the departmental office, SN 4023. The Help Centre staff are available to help first-year and second-year students with specific difficulties in the study of French.

On the first visit to the Help Centre, students should bring some samples of corrected exercises or tests so that the staff can see for themselves where students may be having difficulty. Help Centre staff are not authorized to correct work intended to be passed in and marked by instructors.
German Help Centre

Science Building, SN 3062 Hours: posted each term

Telephone: 709 864 7636 (departmental office)

The German Help Centre is open to all students enrolled in German language courses. The times are announced each term in all classes and posted on the departmental website. The centre is staffed by senior students. Tutoring is given on an individual basis and no appointment is necessary. In addition to help with written assignments and tests, the centre also offers conversation practice.

Library

Queen Elizabeth II Library Regular Hours: Monday – Thursday 7:30 a.m. – 2 a.m.
Friday 7:30 a.m. – 9 p.m.
Saturday 10 a.m. – 9 p.m.
Sunday 10 a.m. – 2 a.m.
Telephone: 709 864 7423
www.library.mun.ca

The Commons provides collaborative digital and study spaces and access to computers tutoring, assistive technology, a Digital Media Centre for graphic and video design programs, and a new makerspace for creating, inventing, and tinkering.

Archives and Special Collections showcase rare books, original manuscripts, personal papers, photographs, and diaries.

The Centre for Newfoundland Studies provides access to the largest collection of published materials about Newfoundland and Labrador in the world.

Study Spaces offer a variety of quiet, social and group study spaces. Reserve your study room online.

Memorial University Libraries includes:
Queen Elizabeth II Library
Health Sciences Library, Health Sciences Centre
Dr. C.R. Barrett Library, Marine Institute Education Library, Education Building Music Resource Centre, Music Building Ferriss Hodgett Library, Grenfell Campus

Discover your library at www.library.mun.ca

Mathematics Help Centre

www.mun.ca/math

The Calculus, Algebra, & Trigonometry Help Centre, C-2052 provides assistance for students taking Math 1000, 1001, 1090, and 109A/B. The Math Help Centre, HH-3026, provides assistance for students taking
Mathematics 1050, 1051, 2000 and 2050. Students are welcome to drop in with questions on lecture topics or sample problems. Tutoring is given on an individual basis and no appointment is necessary. Students can find more information about hours of operation each semester on the Mathematics and Statistics website.

Physics Help Centre

This centre is designed specifically for first-year physics students and is staffed by professors, assistants and physics majors. The staff schedule is posted at the beginning of each semester so students can check when their professor is scheduled to work.

Location: Chemistry-Physics Building, C 3071
Hours: Monday - Friday, 10 a.m. – 4 p.m.

Russian Help

Centre Science Building, SN 3062
Hours: posted each term
Telephone: 709 864 7636 (departmental office)

The Russian Help Centre is open to all students enrolled in Russian language courses. The times are announced each term in all classes and posted on the departmental website. The centre is staffed by senior students. Tutoring is given on an individual basis and no appointment is necessary. In addition to help with written assignments and tests, the centre also offers conversation practice.

Writing Centre

Location: Science Building, SN 2053
Satellite location: The Commons, Queen Elizabeth II Library
Hours: [www.mun.ca/writingcentre/]
Phone: 709 864 3168 (Science Building)
709 864 6159 (The Commons)
www.mun.ca/writingcentre
writing@mun.ca

The Writing Centre, a free university-wide service for undergraduates and graduates, is staffed by peer tutors who will guide students through stages of the writing process. Whether you need help getting started, completing a draft, or revising your text, the Writing Centre staff is happy to help. For students outside the St. John's area taking online courses, tutoring is available online. For additional information or to make an appointment, please contact the centre. You can also check Navigate for available appointments.
CAMPUS LIFE – ST. JOHN’S CAMPUS

Bookstore

The university Bookstore is the one-stop shop for all course materials and supplies for academic success. Orders can be placed through the bookstore website for books, clothing and giftware. Orders are shipped worldwide.
www.bookstore.mun.ca

Campus Card

Campus cards can be requested online.
www.mun.ca/ancillary/campuscard/

Campus Maps

Check out campus before you even arrive!
www.mun.ca/campus_map

Campus Tours

Tours are available to students in senior high school or to individuals attending in the next two years. Tours are offered in the mornings or afternoons on Mondays, Wednesdays and Fridays and are not available on weekends or statutory/university holidays. Friday tours often book up fast, so be sure to request your tour as early as possible.

Through a campus tour students can: explore campus buildings and facilities, visit the Academic Advising Centre, meet with a faculty member, and get information on our on-campus residences.
www.mun.ca/undergrad/campustours/

Food Bank

The Campus Food Bank is registered as a food bank with the Community Food Sharing Association. Many departments, clubs, societies and other groups hold food drives and fundraisers throughout the year in support of its activities. The Food Bank is staffed by volunteers, most of whom are students. To utilize the Food Bank, students must provide their MCP number or, in the case of out-of-Province students, a student number will suffice.
www.mun.ca/campusfoodbank/

Food Services

Food services on Memorial University’s St. John’s campus include food court, café, cafeteria, vending, catering; and residence dining options.
www.mun.ca/residences/residencelife/dining.php
Student IT Toolbox

- MUN Login
- @ Memorial Wi-Fi
- MUN mobile
- Memorial Apps Store
- my.mun.ca
- MUNmail
- Free Software

www.mun.ca/cc/studserv

Lockers

www.mun.ca/ancillary/campuscard/lockers.php Lockers are available at an annual rental fee of $35 (with partial refund if locks are brought back before the end of the rental period), or $20 per semester. Students can get a locker at the Bookstore. Lockers are available at the following locations:

- Main Tunnel
- Engineering Building, (first floor)
- Education tunnel
- Skywalk (between the Science and Arts Buildings).

Transportation and Parking

Information on parking permits, parking accommodations and pay per use parking is available online.

www.mun.ca/cep/parking

Volunteer

Find out everything you want to know about volunteering while you are studying at the St. John’s campus.

www.mun.ca/volunteer/about
STUDENT SUPPORTS – ST. JOHN’S CAMPUS

Aboriginal Resource Office

Under the direction of Aboriginal Affairs, the Aboriginal Resource Office provides support services to Aboriginal students on the St. John's campus while also advocating and educating the university community on the inclusion of Aboriginal peoples in the province.

www.mun.ca/aro

Career Development and Experiential Learning

Career Development coaches and empowers students through a strengths-based approach, to gain increased self-awareness and to make informed decisions about their career planning and employment goals. Contact Career Development for more information about Career Exploration, Experiential Learning (including on campus employment) and to meet with employers who are hiring students during their studies and when they graduate.

www.mun.ca/student/about/career-development-contact.php

Chaplaincy

Chaplaincy at Memorial University is a ministry to the whole university community – students, staff, and faculty – and all faiths. The intent of chaplaincy is to build a community on campus in which students can share their faith and explore spirituality together, as they continue to grow spiritually.

www.mun.ca/student/supports-and-resources/Chaplaincy/

Glenn Roy Blundon Centre – Learning Accommodations for Students with Disabilities

The Glenn Roy Blundon Centre collaborates with the entire campus community to create an accessible, equitable and supportive learning environment for all students.

From its location in the University Centre, the Blundon Centre serves students on the St. John's campus who may experience barriers to education. Barriers can relate to mobility, learning styles, vision and hearing, mental health and wellness, and temporary or chronic illnesses or injuries.

New students are invited to connect with the Blundon Centre before the semester starts to discuss ways that the Centre can support their learning goals and their transition into university studies.

www.mun.ca/student/about/Blundon-Centre.php
Internationalization Office

The Internationalization Office works to enhance the university experience for students here and abroad and to position Memorial’s students, faculty, researchers and staff for global success. The office provides a variety of international student advising services, supports the Memorial community in travel outside of Canada, oversees Harlow Campus activities, and also connects and consults with provincial, regional, national and international bodies on international issues.
www.mun.ca/international/

Welcome and Orientation

Memorial provides comprehensive welcome and orientation programs throughout the summer, fall and winter terms. July kicks off the year round welcome programming with SOAR (Summer Orientation for Academic Readiness). MUN 101 (our online orientation) provides valuable information to support students’ success in their first term. Fall Welcome and Winter Welcome offered at the beginning of the semester presents valuable opportunities to help students connect, engage and belong to Memorial University.

Students are encouraged to participate in all welcome and orientation programming. Launch your journey to student success at SOAR. Registration can be found at www.mun.ca/SOAR. Students should check their @mun email account or visit www.mun.ca/welcomeweek for information on MUN 101 and year-long offerings.

Student Employment

Students can receive support to assist them in finding summer and part-time/full-time work opportunities both on/off campus.
www.mun.ca/student/student-success/work-experience/

Student Experience Office

The Student Experience Office empowers students – both current and prospective – by providing transition supports, leadership development and community engaged learning informed by best practices and ongoing assessment.

Contact the Student Experience Office for information on the New Student Experience, Student Leadership development, and Community Engaged Learning.
www.mun.ca/student/student-success/
Student Residences

Student Residences provides housing services and resources for students, as well as year-round guest accommodations. Residences located on campus include traditional residence halls (Paton College), suite style (Macpherson College), and Burton’s Pond Apartments. Supports and programming for students living in residence are provided through Residence Life.
www.mun.ca/residences

Student Support & Crises Management

Student Support and Crisis Management (SSCM) provides supports and resources to empower students through positive coaching that encourages optimal student success. This is achieved through the provision of educational programs that promote health and wellbeing, spiritual development, personal growth and academic thriving.
www.mun.ca/student/supports-and-resources/

Students’ Union

The MUN Students’ Union (MUNSU) unites all undergraduates attending Memorial. MUNSU represents Memorial students at all levels of government including the university, locally, provincially, and federally through the Canadian Federation of Students.
www.munsu.ca

Study Abroad

There are a multitude of study abroad programs for nearly any program of study. Talk to an international program coordinator to find out more information about programs for your field of study and begin planning today!
www.mun.ca/goabroad

International programs for Humanities and Social Sciences:
natalie.spracklin@mun.ca

International programs for Business Administration:
ashley.holloway@mun.ca

International programs for most other programs: chibbs@mun.ca
Student Wellness and Counselling Centre

Family physicians, nurses, psychologists, counsellors and a psychiatrist are available to provide rapid access interprofessional primary health care and to assist students in taking responsibility for their own health and well-being.

Programs and supports include the diagnosis and treatment of physical and psychological illness, support for study skills development, career assessment and counselling, the activation and maintenance of wellness and the promotion of health education. The centre also serves as a training site for advanced students in a number of helping and mental health professions.

www.mun.ca/counselling/home/
www.mun.ca/health/
DEGREE PROGRAMS GRENFELL CAMPUS

Arts

- Bachelor of arts

Business

- Bachelor of business administration

Environment and Sustainability

- Bachelor of environment and sustainability

Fine Arts (Theatre)

- Bachelor of fine arts (theatre)

Fine Arts (Visual)

- Bachelor of fine arts (visual)

Nursing

- Bachelor of nursing

Science

- Bachelor of science
Completing an arts degree at Grenfell Campus encompasses a full range of courses in English, environmental studies, historical studies, humanities, psychology, French studies, philosophy, and religious studies.

Your program will enable you to develop your ability to think and write critically while exploring the past, present and future of society. You will have the opportunity to gain an appreciation for the diversity and importance of a variety of disciplines.

Why complete a Bachelor of Arts degree?

The Bachelor of Arts strengthens critical and creative thinking through a broad range of social, political and cultural studies. The program is designed to help students:

- broaden your perspective on local and global affairs
- encourage community and social involvement
- prepare you for lifelong learning and occupational diversity

Degree requirements

For the bachelor of arts degree, students must complete a minimum of 120 credit hours made up of the following components:

- core program requirements
- an approved concentration of courses known as a major
- an approved concentration of courses known as a minor (A minor is not required for interdisciplinary programs. However, students in these programs may choose to complete a minor.)
- electives
Core program requirements

- literacy requirement (30 credit hours) - must be completed on campus or approved by committee
- quantitative reasoning and analysis (QRA) requirement (six credit hours)
  First semester courses that qualify as QRA include: all chemistry courses (excluding Chemistry 1900), all mathematics and physics courses and Economics 2010.
- breadth of knowledge requirement (18 credit hours chosen from three groups)

Minors

- business
- Canadian studies
- classics
- English
- folklore
- French
- historical studies
- humanities
- philosophy
- psychology
- religious studies (program under review)
- social/cultural studies
- sociology
- tourism studies

Majors

- English
- historical studies
- humanities (program under review)
- psychology*
- social/cultural studies

*Psychology can be completed as a bachelor of arts (honours)
English

The English program allows you to work toward a bachelor of arts with a major in English and a minor in another subject area. Grenfell's English program includes key courses that give you a strong understanding of the essential aspects of English literature. The courses focus on specific areas of English studies, including:

- Canadian literature
- Dramatic literature
- Modern literature
- Creative writing

Why study English at Grenfell?

If you love to read and write, the English program at Grenfell will expand your creativity, imagination, and critical thinking. There is a particular focus on creative writing and our instructors expose you to different worldviews through literature, allowing you to analyze culture, world events, and your own daily encounters in a new way.

- Explore both classic and modern literature, from medieval epics to contemporary graphic novels.
- Better understand the social and cultural conditions of people throughout history.
- Grasp the changing views and attitudes related to concepts like beauty and truth.

- Understand the joys and sorrows of others, and make sense of the events that shape us.
- Learn ways to engage with the world around you and appreciate the diversity of cultural work done by writers in Canada and around the world.
- Gain solid communication and critical thinking skills.

Students pursuing a bachelor of arts with a major in English at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>designated quantitative reasoning and analysis (QRA) course</td>
<td>designated quantitative reasoning and analysis (QRA) course</td>
</tr>
<tr>
<td>course in minor area</td>
<td>course in minor area</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities:

- copywriter
- teacher
- public relations officer
- playwright/novelist
- journalist.

Contact information

For additional information, visit the School of Arts and Social Science or contact Holly Pike.
Historical Studies

Historical studies involves more than facts, dates and events. The four-year bachelor of arts program focuses on historical developments, events, social and cultural conditions, major turning points and the lives of people who shape them. This program is about exploring the practical and intellectual aspects of the past that will intrigue, challenge and inspire students.

Why study historical studies?

Historical studies explores the different ways in which western societies, cultures and nations have evolved from the days of Greece and Rome to the present. You can take courses in European and North American history and explore the beginnings of empires to more recent globalization. Learn about art, cultural, gender and environmental history. Historical studies students learn to research, discuss, communicate and engage an audience. You will learn how to investigate important issues and ideas, make sense of them, and critically evaluate them.

Your learning will culminate with an independent project. You’ll bring together all of your learning to write an essay on any topic of your choice, delving into areas of history that excite you.

Students pursuing a bachelor of arts with a major in historical studies at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>History 1100</td>
<td>History 1101</td>
</tr>
<tr>
<td>designated quantitative reasoning and analysis (QRA) course or elective</td>
<td>designated quantitative reasoning and analysis (QRA) course or elective</td>
</tr>
<tr>
<td>course in minor area</td>
<td>course in minor area</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities:

- law
- journalism
- public administration
- education
- museum/archival studies
- library and information science
- graduate studies
- public policy.

Contact information

For additional information, visit the School of Arts and Social Science or contact Rainer Baehre.
Psychology

You can major in psychology through a bachelor of arts degree or a bachelor of science degree at Grenfell Campus.

Why study psychology at Grenfell?

Psychology seeks to understand how we think, act, and feel. By exploring mental functions and actions, we can understand individual and group behaviour. Grenfell's psychology program offers students a wide variety of topics and will provide you with skills and knowledge that will have relevance throughout your life including:

- Critical thinking
- Problem solving abilities
- Analytic abilities
- Writing skills
- Presentation skills

Contact information

For additional information, visit the School of Arts and Social Science or contact Dr. Kelly Warren.

Students pursuing a bachelor of arts with a major in psychology at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>course in minor area</td>
<td>course in minor area</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
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<tr>
<td>elective</td>
<td>elective</td>
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</tbody>
</table>

Possible career opportunities:

- employment counsellor
- wellness facilitator
- counselling centre intake worker
- interagency coordinator
- English-as-an-additional language teacher
- director of research
- applied behaviour analysis therapist
- violence outreach worker
- international student coordinator
- positions in the civil service (customs to social services).

Many Grenfell Psychology graduates choose to continue their post-secondary education (MA, PhD, MD, B. Ed) in order to facilitate careers in professions like education, law, social work, clinical/counseling/experimental psychology.
Social/Cultural Studies

This four-year bachelor of arts program explores the rituals, norms, beliefs, conflicts, and traditions that underpin culture and society. By studying present and past cultural practices, and social and cultural shifts, students engage critically with important issues such as medical systems, the influences of mass media, global issues and trends, and the formation of group and personal identities. This program encourages students to learn about and contribute to contemporary debates on social and cultural issues that affect their daily lives and futures.

Why study social/cultural studies at Grenfell?

Grenfell's social/cultural studies provides you with a broad, multidisciplinary education in contemporary social and cultural phenomena,

Our practical fieldwork courses involve original field research with human participants, and entail a broad range of skill sets applicable to many areas of employment after graduation.

Students pursuing a bachelor of arts with a major in social/cultural studies will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Sociology 1000</td>
<td>designated quantitative reasoning and analysis (QRA) course</td>
</tr>
<tr>
<td>Folklore 1000</td>
<td>Anthropology 1031</td>
</tr>
<tr>
<td>Historical Studies 1100</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities:

- social research
- governmental and non-governmental organizations
- healthcare and medicine
- community and rural development
- public relations
- law
- education
- journalism
- cultural heritage preservation and promotion
- social work
- human resources
- criminology/policing.

Contact information

For additional information, visit the School of Arts and Social Science or contact Dr. John Bodner.
Bachelor of Business Administration

Grenfell Campus offers an undergraduate degree program in business administration as well as a minor program for students completing other degrees. To be admitted to the BBA program, students should select this option on their Undergraduate Application for Admission/Readmission.

Students must complete 120 credit hours subject to core program and specific BBA program requirements:

1. At least 15 credit hours but not more than 24 credit hours chosen from business electives
2. At least 24 credit hours but not more than 33 credit hours, chosen from electives other than those listed in business electives.

Students may choose to complete a minor program from the Division of Arts, Science, or Social Science, although a minor is not required.

The BBA is excellent preparation for a wide variety of career opportunities, which could include (but are not limited to):

- personal finance, banking and insurance
- accounting (including CPA designation)
- marketing, public relations and sales
- business and economic development
- human resources management
- labour and industrial relations
- self-employment.

Students accepted to the bachelor of business administration at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1052 or 1000(^1)</td>
<td>non-business elective(^1)</td>
</tr>
<tr>
<td>English 1000</td>
<td>3 credit hours in English</td>
</tr>
<tr>
<td>Economics 1010</td>
<td>Economics 1020</td>
</tr>
<tr>
<td>Business 1010</td>
<td>Business 1020</td>
</tr>
<tr>
<td>non-business elective</td>
<td>non-business elective</td>
</tr>
</tbody>
</table>

Note: Students should refer to the math course criteria chart prior to selecting their first-semester course. Students choosing to complete Mathematics 1000 may be required to complete Mathematics 1090 as a prerequisite.

Contact information

For additional information, visit the School of Arts and Social Sciences or contact Lynn Kendall.
Bachelor of Environment and Sustainability

The Bachelor of Environment and Sustainability (BES) program bridges scientific concerns about natural resources with policy development and management. The four-year degree program offers two majors, one in Environmental Studies and one in Resource Management.

All students in this degree program take a common set of courses in sustainability issues, such as Systems Thinking, Geographic Information Systems, and Ecological Economics. Students also select one of the two majors where they develop more specialized skill sets. This program provides our students with 'hands-on' experience, requiring participation in the City-Studio course as well as enrollment in a field course (usually at the Bonne Bay Marine Station; www.bonnebay.ca) and our outdoor pursuits courses.

Why study environment and sustainability?

We depend on the environment for many aspects of our daily lives, including food, employment, recreation, and natural resources for homes, transportation and consumer goods. Future generations will have a similar dependence on the environment as we do now; it is our responsibility to ensure that they way we use resources now does not impact access to those same resources by future generations.

This BES equips students with the tools and critical thinking skills necessary to make decisions regarding how we use the environment now with a view to future generations. Students in each BES major take a common set of courses throughout the four years of the program. Environmental Studies majors take an additional set of courses from a social science perspective (such as economics, political science, geography) whereas Resource Management majors take as set of courses have an ecological or science based perspective (such as geographic information systems, population and resource dynamics, and quantitative methods).
Environmental studies

Students pursuing a bachelor of environment and sustainability with a major in environmental studies at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 1050</td>
<td>English 1000</td>
</tr>
<tr>
<td>Economics 1010</td>
<td>Environmental Science 1000</td>
</tr>
<tr>
<td>Environment and Sustainability 1000</td>
<td>Political Science 2600</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Resource management

Students pursuing a bachelor of environment and sustainability with a major in resource management at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geography 1050</td>
<td>English 1000</td>
</tr>
<tr>
<td>Economics 1010</td>
<td>Environmental Science 1000</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Environment and Sustainability 1000</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Careers include but are not limited to:

- environmental consulting
- natural resources policy analyst
- conservation officer
- environmental education
- environmental impact assessment

Contact information

For additional information, visit the School of Science and the Environment or contact Dr. Stephen Decker
Bachelor of Fine Arts (Theatre)

The Bachelor of Fine Arts (BFA) (Theatre) requires 120 credit hours over a four-year period.

The core of the degree consists of:

- 75 credit hours in theatre
- 18 credit hours in dramatic literature

Students major in acting or technical theatre production, but the courses in dramatic literature are common to both areas.

In addition, theatre students are required to take:

- six credit hours in first-year English
- six credit hours in art history
- 15 credit hours in electives in consultation with the program chair

Admission requirements

In addition to meeting the general academic requirements of the university, applicants for the BFA (Theatre) must audition/interview to the satisfaction of the department. Enrolment in the program is limited and selection is competitive. The deadline for applications is March 31.

Students accepted to the bachelor of fine arts (theatre) at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Theatre 1000</td>
<td>Theatre 1001</td>
</tr>
<tr>
<td>Theatre 1010</td>
<td>Theatre 1110 or 1120</td>
</tr>
<tr>
<td>Theatre 1020</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>
Bachelor of Fine Arts (Visual Arts)

The Bachelor of Fine Arts (BFA) (Visual Arts) is a professional program designed to educate and train students in the history, theory and practice of the visual arts. Courses are offered in drawing, painting, sculpture, printmaking, photography, digital imaging, performance, textiles, inter-media art, and inter-media, and art history/visual culture. In addition to studio and art history/visual culture courses, students will take 24 credit hours in appropriate academic courses chosen in consultation with the department. This degree requires 120 credit hours over a four-year period.

Admission requirements

In addition to meeting the general academic requirements of the university, applicants for the BFA (Visual Arts) will be required to submit a portfolio of previous artwork and a completed departmental application form generally before March 1 of the year in which entry is sought. Enrolment in the program is limited and selection competitive.

Students accepted to the bachelor of fine arts (visual arts) at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
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</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Visual Arts 2700&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Visual Arts 2701&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Visual Arts 1911</td>
<td>9 credit hours in studio courses</td>
</tr>
<tr>
<td>9 credit hours in studio courses</td>
<td></td>
</tr>
</tbody>
</table>

1. This is an Art History/Visual Culture course

Contact information

For additional information, visit the School of Fine Arts or contact Ingrid Percy.
Bachelor of Science

Degree requirements

Bachelor of science degree students must complete a minimum of 120 credit hours made up of the following components:

- core program requirements
- an approved concentration of courses known as a major
- an approved concentration of courses known as a minor. (A minor is not required for interdisciplinary programs or for the bachelor of science in computational mathematics, physics or psychology. However, students in these programs may choose to complete a minor.)
- electives

Core program requirements

- One of:
  - six credit hours in English courses;
  - three credit hours in English and three credit hours in another language;
  - six credit hours in critical reading and writing (CRW) courses, including at least three credit hours in English courses.
- Six credit hours in mathematics or statistics courses.
- Six credit hours in courses drawn from the following: biochemistry, biology, chemistry, computer science, Earth sciences, environmental science, ocean sciences or physics.
- Six credit hours in courses drawn from the following: economics, environment and sustainability, geography or political science.

Majors

At Grenfell Campus majors are available in:

- computational math
- environmental science (biology & chemistry)
- general science
- physics
- psychology

The Bachelor of Science (Psychology) degree follows the School of Arts and Social Science Core Requirements.
Minors

At Grenfell Campus minors are available in:
- economics
- environment and sustainability
- environmental science
- geography
- mathematics
- physics
- science

Notes

1. Year 1 of the bachelor of engineering is offered through the Grenfell Campus.
2. Articulation agreements are available for:
   - BRM for graduates of the two-year forest resources technician diploma program offered by the College of the North Atlantic
   - BRM for graduates of the two-year fish and wildlife technician diploma program offered by the College of the North Atlantic
Computational Math

Computational mathematics is about solving real world problems with numbers. It’s about learning to think critically and developing analytical skills that will prepare you for countless opportunities. Computational mathematics is the language of the future. You’ll gain the skills you need to navigate the numbers and prepare for the evolution of many industries.

This mathematics major covers the essential undergraduate topics in mathematics, develops rigorous logical thinking, and equips students with computational techniques to model and solve real-world problems.

In Grenfell’s computational mathematics program, you’ll take courses such as:
- Differential equations
- Numerical analysis
- Applied graph theory
- Statistics
- Vector calculus
- Logical reasoning
- Algorithms and complexity

Contact information

For additional information, visit the School of Science and the Environment or contact Dr. Robert Gallant.

Students pursuing a bachelor of science with a major in computational math at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or 1090)</td>
<td>Mathematics 1001 (or 1000)</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Physics 1050 (or Physics 1020)</td>
<td>Mathematics 2050</td>
</tr>
<tr>
<td>elective²</td>
<td>Computer Science 1510</td>
</tr>
<tr>
<td>elective²</td>
<td>elective²</td>
</tr>
</tbody>
</table>

1. Students who are required to take Mathematics 1090 before entry into Mathematics 1000 are strongly recommended to take Mathematics 1001 during Intersession of their first year. Students not completing Mathematics 1001 in their first year may need extra time to complete their program.

2. Students should consider electives that will lead to the completion of requirements for a minor. For example, students may want to take courses leading to the completion of a minor in business, economics or physics. Students may also want to complete a course in statistics, such as Statistics 2550 or 2500 in their first year.

Possible career opportunities for graduates:
- accountant
- demographer
- investment banker
- risk management specialist
- forensic statistician.
Environmental Science

To qualify for the degree, students must complete core requirements as well as major requirements.

Students may choose to specialize in the biology stream or the chemistry stream.

The environmental science core ensures a broad education in not only scientific but also cultural, ethical and political issues concerning the environment.

In the third and fourth years, students take in-depth environmental biology or environmental chemistry courses that provide expertise in their chosen stream.

Possible career opportunities for graduates:

- environmental chemistry technician
- environmental consultant
- aquaculture specialist
- food inspection or laboratory technician
- park warden.

Environmental science is also excellent preparation for students intending to study education and teach science.

Students pursuing a bachelor of science with a major in environmental science at Grenfell Campus may choose to specialize in a biology or chemistry stream.

Contact information

For additional information, visit the School of Science and the Environment or contact Dr. Ian Warkentin.
### Biology stream

If you choose to specialize in the biology stream you will normally take the following courses in your first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090 or 1000</td>
<td>Mathematics 1000 or elective</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1200 (or 1810)(^1)</td>
<td>Chemistry 1001 (or 1200)</td>
</tr>
<tr>
<td>Physics 1020 or 1050(^2) or Earth Sciences 1000 or elective</td>
<td>Physics 1021 or 1051 or Earth Sciences 1002 or elective</td>
</tr>
</tbody>
</table>

1. Students who complete their first year at the St. John's campus should complete Chemistry 1050/1051 before transferring to Grenfell Campus.
2. Students in the biology stream may choose to take physics and/or Earth sciences after their first year.

### Chemistry stream

If you choose to specialize in the chemistry stream you will normally take the following courses in your first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090 or 1000</td>
<td>Mathematics 1000 or 1001</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Physics 1020 or 1050</td>
<td>Physics 1021 or 1051</td>
</tr>
<tr>
<td>Chemistry 1200 (or 1810)(^1)</td>
<td>Chemistry 1001 (or 1200)</td>
</tr>
<tr>
<td>Earth Sciences 1000 or elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

1. Students should complete Mathematics 1001 and Physics 1021 or 1051 in their first year.
2. Students taking Chemistry 1810/1200 in the fall and winter semesters must take Chemistry 1001 in Intersession to complete first-year requirements. Students who complete their first year at the St. John’s Campus should complete Chemistry 1050/1051 before transferring to Grenfell Campus.
General Science

Students must complete a general science core and must choose three of the following streams: biology, chemistry, Earth systems, math and physics.

Students pursuing a bachelor of science with a major in general science at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or 1090)</td>
<td>Mathematics 1001 (or 1000)</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>first of two courses in a first laboratory science</td>
<td>second of two courses in a first laboratory science</td>
</tr>
<tr>
<td>first of two courses in a second laboratory science</td>
<td>second of two courses in a second laboratory science</td>
</tr>
<tr>
<td>Physics 1020 or 1050 or elective</td>
<td>Physics 1021 or 1051 or elective</td>
</tr>
</tbody>
</table>

Notes:

1. Students choose 3 of 5 streams from Biology, Chemistry, Earth Systems, Mathematics, and Physics in consultation with the Program Chair or their advisor. To complete their programs in a timely manner, students are advised to choose their streams as soon as possible.
2. Laboratory sciences are to be chosen from the following: Biology 1001 and 1002; Chemistry 1200 (or 1810) and 1001 (or 1200); Earth Sciences 1000 and 1002.
3. The same laboratory science selected in the all semester has to be completed in the winter semester, i.e., if you complete Biology 1001 in the fall semester you must complete Biology 1002 in the winter semester.
4. Students completing Chemistry 1810/1200 in the fall and winter semesters should take Chemistry 1001 in Intersession. Students completing Math 1090/1000 in the fall and winter semesters should take Math 1001 in Intersession.
5. Students choosing the Physics stream are strongly advised to choose Mathematics as one of their other two streams.
6. Students not choosing the Physics stream may delay taking Physics 1020/1050 and 1021/1051 until their second year.

Possible career opportunities for graduates:
- education
- science and laboratory technologist
- science journalism
- medicine and related areas
- patent or other areas of the law.

Contact information

For additional information, visit the School of Science and the Environment or contact Dr. Robert Bailey.
Physics

This four-year bachelor of science program explores everything from the smallest nucleus to the farthest galaxies. Students learn the fundamentals giving them a strong foundation to build on. You can choose your direction of study by selecting courses in subatomic and particle physics, astronomy and cosmology.

Students pursuing a bachelor of science with a major in physics at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Physics 1050&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Physics 1051</td>
</tr>
<tr>
<td>Chemistry 1200&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Chemistry 1001&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>elective&lt;sup&gt;4&lt;/sup&gt;</td>
<td>elective&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

1. Students not able to register for Mathematics 1000 may complete the sequence Mathematics 1090, Mathematics 1000, Mathematics 1001.
2. A student who has completed Physics 2204 and Physics 3204 in high school and who is eligible for Math 1000 should register for Physics 1050. A student wishing to pursue the B.Sc. with a major in physics without this background in physics may do so by taking the sequences Physics 1020, 1021, 1051.
3. Although Chemistry is not required for the B.Sc. in physics, it is recommended; a student who wishes to include chemistry but who defers it to a later year may have difficulty in scheduling.
4. The electives may be chosen from almost any discipline. It is recommended that a student interested in upper-year course work in astrophysics or in subatomic physics select either Physics 2151 or Physics 2400, respectively, as one of these electives.

Possible career opportunities for graduates:
- research and development
- teaching
- geophysics
- laser and optics
- water and oceanography
- space science
- nuclear science
- medical physics.

Contact information

For additional information, visit the School of Science and the Environment or contact Dr. Svetlana Barkanova
Psychology

You can major in psychology through a bachelor of arts degree or a bachelor of science degree at Grenfell Campus.

Psychology seeks to understand how we think, act, and feel. By exploring mental functions and actions, we can understand individual and group behaviour. Grenfell’s psychology program offers students a wide variety of topics and will provide you with skills and knowledge that will have relevance throughout your life including:

- Critical thinking
- Problem solving abilities
- Analytic abilities
- Writing skills
- Presentation skills

Many Grenfell Psychology graduates choose to continue their post-secondary education (MA, PhD, MD, B. Ed) in order to facilitate careers in professions like education, law, social work, clinical/counseling/experimental psychology.

Possible career opportunities:

- employment counsellor
- wellness facilitator
- counselling centre intake worker
- interagency coordinator
- English-as-an-additional language teacher
- director of research
- applied behaviour analysis therapist
- violence outreach worker
- international student coordinator
- positions in the civil service (customs to social services).

Students pursuing a bachelor of science with a major in psychology at Grenfell Campus will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>FALL SEMESTER</th>
<th>WINTER SEMESTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>Mathematics 1000 (^1) (or 1090)</td>
<td>Mathematics 1001 (or 1000)</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1200 or Physics 1020 (or 1050)</td>
<td>Chemistry 1001 or Physics 1021 (or 1051)</td>
</tr>
</tbody>
</table>

1. Selection of a mathematics course depends on a student’s background and ability. Students should refer to the math course criteria chart prior to selecting their first-semester course.

Contact information

For additional information, visit the School of Arts and Social Science or contact Dr. Kelly Warren.
Course Descriptions - Grenfell Campus

Anthropology

Anthropology 1031
Introduction to Anthropology provides an overview of the field of social and cultural anthropology. Diverse case studies will be used to illustrate key anthropological concepts and methods.
Lectures: Three hours per week
Prerequisite: None
Note: Students who major or minor in anthropology are required to take Anthropology 1031.

Anthropology 2410
Classics in Social and Cultural Anthropology is an examination of selected milestone monographs, ground-breaking studies for subdisciplinary specialties and major synthesis.
Lectures: Three hours per week
Prerequisite: None

Art History

Visual Art 2700
Art History Survey I is the history of art from pre-historic times to the Renaissance.
Lectures: Three hours per week
Prerequisite: None

Biochemistry

Biochemistry 1430
Biochemistry for Nurses is an introduction to the chemistry and structure-function relationships of carbohydrates, lipids and proteins. It will examine the basic metabolism of carbohydrates and fats, with emphasis on the biochemical fluctuations that occur in human health and disease and will include a brief introduction to molecular genetics. Prospective fast-track program students should consult with the School of Nursing concerning admission to this course.
Lectures: Four hours per week
Prerequisite: Level 3 Chemistry from high school or Chemistry 1010 or Chemistry 1810 or equivalent and acceptance to the bachelor of nursing (collaborative) program.
Note: This course may not be used for credit to fulfill the requirements for a major in the Department of Biochemistry.
Biology

Biology 1001
Principles of Biology introduces biology as a scientific discipline, outlines the unifying ideas in modern biology and then illustrates these ideas by examining selected aspects of the form, function and diversity of some major groups of living organisms.
Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: Science 1807 and 1808
Note: Students who have written the College Board Advanced Placement Biology exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Biology 1002
Principles of Biology is a continuation and extension of the principles embodied in Biology 1001.
Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: Biology 1001 and Science 1807 and 1808

Business

Business 1010
Introduction to Business provides students with an overview of business in the Canadian environment, with a focus on the economic and business systems, as well as major social, technological, and global trends. The course introduces students to fundamental concepts related to many functional areas of business, such as human resource management, marketing, production, operations management, accounting, and financial management. Emphasis is placed on relating the course material to current events in the business world, as well as helping students acquire critical and analytical thinking skills.
Lectures: Three hours per week
Prerequisite: None
Note: Students may not receive credit for Business 1000 and 1010

Business 1020
Introduction to Entrepreneurship is designed to give students a broad understanding of the field of entrepreneurship, the role that entrepreneurship plays in society, and the importance of small business in Canada. 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, engage with local entrepreneurs, and evaluate their own entrepreneurial skill set. Students will learn entrepreneurial, technical and communication skills that will be useful in any organizational setting.

**Lectures:** Three hours per week  
**Prerequisite:** None  
**Note:** Students may not receive credit for Business 1020 and 1600.

### Chemistry

Selection of a chemistry course depends on a student’s background and ability. Students should refer to the [course criteria chart](#) prior to selecting their first-semester course.

#### Chemistry 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.

**Lectures:** Four hours per week  
**Laboratory:** Three hours per week  
**Prerequisite:** Science 1807 and 1808. Students should have high school Chemistry 3202 or at least 75 per cent in Chemistry 2202 or have successfully completed Chemistry 1810.

**Note:** Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](#) for possible awarding of credit.

#### Chemistry 1001

**Introductory General Chemistry II** is rates of reaction, chemical equilibria, thermodynamics and introduction to organic chemistry.

**Lectures/Tutorials:** Four hours per week  
**Laboratory:** Three hours per week  
**Prerequisite:** Chemistry 1200 or equivalent; Science 1807 and 1808

**Note:** Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](#) for possible awarding of credit.

#### Chemistry 1050

**General Chemistry I** builds on basic chemistry concepts from high school. Topics include gases; thermochemistry; atomic structure; periodic properties; chemical bonding including valence bond theory; hybridization and introduction to molecular orbital theory; properties of liquids and solids.

**Lectures:** Four hours per week  
**Laboratory:** Three hours per week  
**Prerequisite:** Chemistry 1010 with a grade of at least 60 per cent or high school Chemistry 3202 with a grade of
at least 65 per cent and Science 1807 and 1808. It is also recommended that students have successfully completed high school Mathematics 3200 or 3201. **Note:** Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

**Chemistry 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.

**Lectures:** Four hours per week  
**Laboratory:** Three hours per week  
**Prerequisite:** Science 1807 and 1808  
**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 Grenfell Campus, nor for a major or honours in chemistry, nor towards fulfilment of the 78 credit hours in science courses required for the B.Sc. degree on the St. John’s Campus.

**Chemistry 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  
**Laboratory:** Three hours per week  
**Prerequisite:** None  
**Note:** Chemistry 1900 may not be used as one of the required courses towards a minor, major or honours in any science degree program. Notes: Students who have done well in Chemistry 3202 are strongly advised to register for Chemistry 1200 Chemistry 1200 and 1001 provide a superior preparation for all subsequent programs at Memorial and at other Canadian universities.
Classics

Classics 1100
Life in Ancient Greece 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.
Lectures: Three hours per week
Prerequisite: None

Classics 1120
Elementary Latin I is an introduction to the grammar and syntax of Latin, with particular attention paid to the acquisition of basic skills in reading, composition and aural comprehension.
Lectures: Four hours per week
Prerequisite: None

Classics 1121
Elementary Latin II is a continuation of the work begun in Elementary Latin I.
Lectures: Four hours per week
Prerequisite: Classics 1120 or its equivalent

Classics 1130
Elementary Ancient Greek I is an introduction to the grammar and syntax of ancient Greek, with particular attention paid to the acquisition of basic skills in reading, composition and aural comprehension.
Lectures: Four hours per week
Prerequisite: None

Classics 1131
Elementary Ancient Greek II is a continuation of the work begun in Elementary Ancient Greek I.
Lectures: Four hours per week
Prerequisite: Classics 1130 or its equivalent

Classics 1200
Life in Ancient Rome 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.
Lectures: Three hours per week
Prerequisite: None
Computer Science

Computer Science 1510
An Introduction to Programming for Scientific Computing introduces students to basic programming in the context of numerical methods with the goal of providing the foundation necessary to handle larger scientific programming projects. Numerical methods to solve selected problems from Physics, Chemistry, and Mathematics will be covered.

Lectures: Three hours per week
Laboratories: Two hours per week
Prerequisite: Mathematics 1000
Note: Students can receive credit for only one of Computer Science 1510, the former COMP 2602 and the former Mathematics 2120

Earth Sciences

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
Prerequisite: Science 1807 and 1808

Note: Earth Sciences 1000 and 1002 are required for Earth sciences majors, minors and all joint programs.

Earth Sciences 1002
Concepts and Methods in Earth Sciences provides an introduction to a broad range of concepts concerning the development of the geological record and the Earth; practical methods for collection of field based data; topics in map interpretation and geometric analysis, stratigraphy, paleontology, structure and petrology. The course is presented with an emphasis on the development of practical skills needed to pursue a career in Earth sciences.

Lectures: Three hours per week
Laboratories: Three hours per week
Prerequisite: Earth Sciences 1000, Science 1807 and 1808
Note: Earth Sciences 1000 and 1002 are required for Earth sciences majors, minors and all joint programs.

Earth Sciences 2150
The Solar System describes the basic astronomy of the solar system, tracing the search to understand motion of the sun, moon and planets in the sky; modern observations of planets, moons, comets, asteroids and meteorites and what they tell us about the origin and evolution of the solar system.

Lectures: Two and a half hours per week
Prerequisite: None
Economics

Economics 1010
Introduction to Microeconomics I
examines scarcity and opportunity cost; demand and supply; elasticity; household demand: marginal utility; household demand: indifference curves; production functions; short-run and long-run cost functions; perfect competition in the short run and the long run; monopoly.
Lectures: Three hours per week
Prerequisites: None
Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Economics 1020
Introduction to Macroeconomics is national income accounting, aggregate income analysis, money, banking and foreign trade.
Lectures: Three hours per week
Prerequisites: None
Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Notes:

1. Economics 1010 and 1020 need not be taken in any specific order and may be taken concurrently.
2. Economics 1010 and 1020 are prerequisites to all further courses in economics.

Engineering

Engineering 1010
Engineering Statics is the first course in engineering mechanics. Forces and moments are described with vector algebra, leading to a description of the equilibrium conditions for particles and solid bodies. The importance of free body diagrams is highlighted. This knowledge is then applied to the analysis of trusses, frames and machines. Additional topics include an examination of friction and the concepts of centre of force, centroids and second moments of area.
Lectures: Three hours per week
Tutorials: One hour per week
Prerequisite: Level III Physics or Physics 1020 and Mathematics 1000 (which may be taken concurrently)

Engineering 1020
Introduction to Programming is an introduction to algorithmic problem solving techniques and computer programming, including basic program control structures (sequence, call, branch, loop) and data representations,
functional decomposition and design by contract. Exercises and examples are drawn from a variety of engineering disciplines and are implemented using a standard modern programming language.

**Lectures:** Three hours per week  
**Laboratory/Tutorial:** At least eight two-hour sessions  
**Prerequisite:** Level III Advanced Mathematics or Mathematics 1090

**Engineering 1030**  
**Engineering Graphics and Design** provides two complementary competencies. First, it provides an introduction to the fundamentals of graphic communication, including orthographic projections, three dimensional pictorials, sectioning and dimensioning. Both sketching and CAD are utilized. Second, the course introduces students to standard design methodologies. The graphics and design competencies are reinforced through lab and project exercises.

**Lectures:** Three hours per week  
**Laboratory/Tutorial:** Two hours per week  
**Prerequisite:** Level III Advanced Mathematics or Mathematics 1090

**Engineering 1040**  
**Mechanisms and Electric Circuits** (2015-16 pilot curriculum) will engage and prepare students for Memorial University’s engineering program by: exercising student judgement and understanding of an engineering mindset to problem formulation, solution, and assessment of what is a “reasonable” result; introducing students to software environments to increase their ability and comfort in using computers as engineering problem-solving tools; and introducing problems that relate to the variety of engineering disciplines offered in the program. Students in the electrical circuits portion of the course will be taught relevant theory, and the application of problem-solving skills, judgement and visualization to the solution of electrical circuit problems.

**Lectures:** Three hours per week  
**Laboratory:** Two hours per week  
**Prerequisite:** Level III Physics or Physics 1051 (which may be taken concurrently) and Mathematics 1000 (which may be taken concurrently)  
**Note:** The engineering course pairs 1010/1020 and 1030/1040 are offered in single slots so that students can only take one from each pair in the fall and winter semesters.
English

English 1000
Critical Reading and Writing in Prose Forms (available only at Grenfell Campus) is an introduction to the essay, short fiction, and the novel. Emphasis is placed on critical reading and thinking strategies; composition of essays, including use of quotations and documentation, revision and editing; and literary analysis.

Note: All sections of this course follow the CRW guidelines available at www.mun.ca/hss/CRW.

Lectures: Three hours per week
Prerequisite: None

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

English 1001
Critical Reading and Writing in Poetry and Drama (available only at Grenfell Campus) builds upon the essay writing and critical analytical strategies begun in English 1000. Emphasis is placed on developing composition skills in essay writing, conducting research, and examining the genres of poetry and drama.

Note: All sections of this course follow the CRW guidelines available at www.mun.ca/hss/CRW.

Lectures: Three hours per week
Prerequisite: English 1000 or equivalent

English 1110
Critical Reading and Writing in Rhetoric is an examination of prose texts such as essays, articles and reviews. Students write for different purposes and audiences. Emphasis is placed on critical reading and writing: analyzing texts, framing and using questions, constructing essays, organizing paragraphs, conducting research, quoting and documenting, revising and editing. All sections of this course follow CRW guidelines available at www.mun.ca/hss/crw.

Lectures: Three hours per week
Prerequisite: English 1000 or 1080

Notes:
1. All students entering the Faculty of Business undergraduate programs must have successfully completed English 1110 or English 1021.

Course for students whose first language is not English:

English 1020
Writing for Second Language Students I is an introduction to the use of English with emphasis on composition for non-native English speaking students. This course is for
students whose first language is not English and who have passed 102F or have attained a standard acceptable to the University on an approved language proficiency exam such as IELTS, TOEFL or CAEL. Students who have passed English 1020 may take as their second English course one of English 1021, 1090, 1191, 1192, or 1193. Students completing this course may elect to use it with English 1021 to fulfill the Bachelor of Arts Language Study requirement.

**Lectures:** Three hours per week

**Environmental Science**

**Environmental Science 1000**

*An 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.

**Lectures:** Three hours per week

**Prerequisite:** None

**Note:** Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](#) for possible awarding of credit.

**Folklore**

**Folklore 1000**

*Introduction to Folklore* explores the role of tradition in communication, art and society. Reading assignments and audiovisual material will emphasize the use of folklore in context. Students will analyze traditions in their own lives through special assignments. A student may not receive credit for both Folklore 1000 and 2000.

**Lectures:** Three hours per week

**Prerequisite:** None
Folklore 2300
Newfoundland Folklore 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 University’s Folklore and Language Archive.
Lectures: Three hours per week
Prerequisite: Folklore 1000 or Anthropology 1031
Note: Not applicable towards the major or minor in Anthropology

Folklore 2401
Folklife Studies examines the interweaving of traditional elements in the tangible and intangible cultural heritage of various cultures. These may include holiday customs, rites of passage, folk religion, home remedies, clothing, food and art.
Lectures: Three hours per week
Prerequisite: None

French
Selection of a French course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

French 1500
Introductory University French I is a course for beginners and for students whose background in French is very weak. Permission to register for this course will not be given to students who have completed Français 3202 (high school French immersion).
Lectures: Three hours per week
Conversation/Multi-Media Laboratory: as per instructor’s recommendation
Prerequisite: None
Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

French 1501
Introductory University French II is one of three consecutive credit courses in French language at the first-year university level, offering a complete overview of basic oral and written French.
Lectures: Three hours per week
Conversation/Multi-Media Laboratory: as per instructor’s recommendation
Prerequisite: High school French 3200
or 3201 with a final grade of at least 80 per cent or permission of the co-ordinator of first-year French. Ex-immersion students with less than 60 per cent should register for this course.

**Note:** Students who have written the College Board Advanced Placement exam should consult the [Advanced Placement Policy chart](#) for possible awarding of credit.

**French 1502**

**Introductory University French III** is one of three consecutive credit courses in French language at the first-year university level, offering a complete overview of basic oral and written French.

- **Lectures:** Three hours per week
- **Conversation/Multi-Media Laboratory:** as per instructor’s recommendation
- **Prerequisite:** French 1501 with a final grade of at least 60 per cent or high school French 3201 with a final grade of at least 90 per cent or permission of the co-ordinator of first-year French.

**Note:** Students may use only two of French 1500, 1501 and 1502 towards the minimum requirements for a major or minor in French. They are encouraged to consult their advisor or instructor about possibilities for further study in French-speaking areas.

**French 2100**

**Intermediate French I** is a course on composition, grammar and practice in oral skills.

- **Lectures:** Three hours per week
- **Prerequisite:** Français 3202 with a final grade of at least 85 per cent or an exceptional background in French or French 1502 with a final grade of at least 60 per cent.

**Notes:**

1. Students who obtain a grade of less than four on the Advanced Placement examination in French language and students who have received less than 85 per cent in French Immersion 3202 should register for French 1502.
Geography

Geography 1050
Geographies of Global Change provides perspectives on the major geographical challenges and changes facing the contemporary globe, including: climate and environmental change, sustainability, human development, economic globalization, cultural change, and population and migration. Using the integrative skills of geographical analysis, the course prepares students for advanced study in geography and citizenship in the modern world. (This course fulfills the QR requirement for the Faculty of Arts)

Lectures: Three hours per week
Prerequisite: None

Geography 2102
Physical Geography: The Global Perspective is a study of form, process and change in natural systems at and near the surface of Earth, viewed as human environment. Emphasis is on global and regional scales in the systematic study of climate, water, landforms and vegetation. (This course fulfills the QR requirement for the Faculty of Arts)

Lectures: Three hours per week
Laboratory: Three hours per week
Prerequisite: Geography 1050

Geography 2105
Canada’s Natural Environments and Landscapes examines the characteristics and development of the natural environments and landscapes of each of the major regions of Canada. The diversity of natural environments is illustrated through discussion of the climatic, hydrological, biogeographical, and geomorphic processes responsible for shaping the land. The impact of both gradual and rapid (catastrophic) changes on local, national, and global scales will be emphasized.

Lectures: Three hours per week or by Distance
Prerequisite: none
Note: This course is not part of the Geography major requirements.
**Geography 2195**  
*Introduction to Geographic Information Sciences* is an introduction to the fields of cartography, remote sensing and geographic information systems (GIS). Geographic information collection and representation and analysis methods are the topics for the course. An emphasis is given to applications of maps and satellite images. (This course fulfills the QR requirement for the Faculty of Arts)  
**Lectures:** Three hours per week  
**Prerequisite:** None

**Geography 2302**  
*Issues in Economic Geography* covers basic issues and ideas in economic geography. The development of a regional economy will be related to underlying economic, cultural and physical factors.  
**Lectures:** Three hours per week  
**Prerequisite:** Geography 1050

**Geography 2425**  
*Natural Resources* is an introduction to the concepts of natural resources, environment and conservation: the nature and distribution of natural resources; methods of use, allocation and development of natural resources and the role of various physical, social, economic, political and technological factors influencing decision-making about resources.  
**Lectures:** Three hours per week  
**Prerequisite:** Geography 1050  
**Note:** Credit may not be obtained for both Geography 2425 and 3325.
Geography 2495
Regional Geography of Labrador is a holistic study of the Geography of Labrador, including the terrain, geology, Quaternary history, climate, vegetation, and fauna; the cultural geography of Labrador, including Innu, Inuit, NunatuKavut, and Settler people and communities; economic activities in Labrador, and the interaction of the Labrador economy within NL, Canada, and globally; the management of physical and human resources; and the geographic techniques used to investigate and understand Labrador’s unique Geography.
Lectures: Three hours per week or by Distance
Prerequisite: none
Note: This course is not part of the Geography major requirements.

History

History 1100
Introduction to History I introduces students to working with historical materials and writing about the past. Students then will apply these skills to a study of the history of the Western world from the Renaissance and European colonialism up to and including the French Revolution, in a global context. The political, social, and cultural manifestations of Western history will be explored as well as the perspectives and condition of marginalized peoples.
Lectures: Three hours per week
Prerequisite: None

History 1101
Introduction to History II refines students’ ability to work with historical documents and to understand their significance in how we interpret the past. Students will explore the main contours of the history of the Western World from the Napoleonic period to the contemporary era. Students will learn about the range of historical experience, interaction and exchange between ethnicities and cultures, imperialism, war and revolution, national independence, human rights, gender and social life, environmental change, and globalization.
Lectures: Three hours per week
Prerequisite: None
Humanities

**Humanities 1001**  
**Humanities and the Contemporary World** is a study of the relevance of humanities disciplines and texts to contemporary forms and practices such as movies, popular music, television, comic books, graphic novels, professional sports, etc. This course will also focus on the mastery of composition skills. The course is designated writing course.  
**Lectures:** Three hours per week  
**Prerequisite:** None

**Humanities 1002**  
**Texts that Changed the World** is a study of humanities texts which have helped to shape Western civilization. The course is a designated writing course.  
**Lectures:** Three hours per week  
**Prerequisite:** English 1000 or Humanities 1000

Mathematics

Selection of a mathematics course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

**Mathematics 1000**  
**Calculus I** is an introduction to differential calculus, including algebraic, trigonometric, exponential, logarithmic, inverse trigonometric and hyperbolic functions. Applications include kinematics, related rates problems, curve sketching and optimization.  
**Lectures:** Three hours per week  
**Laboratory:** 90 minute problem laboratory per week  
**Prerequisite:** Mathematics 1090 or a combination of placement test and high school mathematics scores acceptable to the department  
**Note:** Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
Mathematics 1001
Calculus II is an introduction to integral calculus, including Riemann sums, techniques of integration and improper integrals. Applications include exponential growth and decay, area between curves and volumes of solids of revolution.
Lectures: Three hours per week
Laboratory: 90 minute problem laboratory per week
Prerequisite: Mathematics 1000

Mathematics 1052
Mathematics for Business covers topics which include elementary algebra and functions, sets, elementary probability, matrices, systems of equations, and linear programming.
Lectures: Four hours per week
Prerequisite: successful completion of Level III Academic or Advanced Mathematics
Notes:
1. Students may not receive credit for this course if they have already received credit for either Math 1050 or Math 1051.
2. Students who already have obtained credit for six or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course, nor can they receive credit for it.

Classical Mathematics 1053
Finite Mathematics II covers topics which include logic, permutations, combinations, mathematical systems, elementary number theory, and geometry.
Lectures: Four hours per week
Prerequisite: successful completion of Level III Academic or Advanced Mathematics
Notes:
1. Students may not receive credit for this course if they have already received credit for either Math 1050 or Math 1051.
2. Students who already have obtained credit for six or more Mathematics credit hours numbered 2000 or above are not permitted to register for this course, nor can they receive credit for it.

Mathematics 1090
Algebra and Trigonometry 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.
Lectures: three hours per week
Laboratory: three-hour problem laboratory per week
Prerequisite: successful completion of Level III Academic or Advanced Mathematics
Mathematics.

**Note:** Students will not receive credit for Mathematics 1090 if they have previously received credit or are currently registered for Mathematics 1000 or 1001.

**Mathematics 2050**

**Linear Algebra I** includes the topics: Euclidean n-space, vector operations in 2- and 3-space, complex numbers, linear transformations on n-space, matrices, determinants and systems of linear equations.

**Lectures:** Three hours per week

**Prerequisite:** A combination of placement test and high school mathematics scores acceptable to the department; or three credit hours in a first-year mathematics course.

**Nursing**

**Nursing 1002**

**Anatomy and Physiology I** explores normal human anatomy and physiology. Students will develop an understanding of the interrelationships of all body systems, from the chemical and cellular levels to the level of the whole organism. Special emphasis is given to the integumentary, skeletal, muscular, nervous, and endocrine systems.

**Lectures:** Three hours per week

**Laboratory:** Two hours per week

**Prerequisite:** Science 1807 and 1808

**Nursing 1003**

**Developing Therapeutic Relationships** focuses on the application of caring theory to interpersonal communications. It emphasizes the development of the role of communicator in individual and group experiences and in professional relationships. Utilizing an experiential model, laboratory experiences focus on self-awareness and group dynamics.

**Lectures:** Three hours per week

**Laboratory:** Two hours per week

**Co-requisite:** Nursing 1004

**Nursing 1004**

**Nursing Foundations** introduces the student to the profession of nursing. The metaparadigm concepts of person, environment, health and nursing will serve as a fundamental framework for the exploration of nursing and health care systems.

**Lectures:** Three hours per week

**Prerequisite:** None
Nursing 1012
Anatomy & Physiology II explores normal human anatomy and physiology. Students will develop an understanding of the interrelationships of all body systems, from the chemical and cellular levels to the level of the whole organism. Special emphasis is given to the circulatory, respiratory, urinary, digestive, and reproductive systems, including pregnancy and delivery.
Lectures: Three hours per week
Laboratory: Two hours per week
Prerequisite: Nursing 1002, Science 1807 and 1808

Nursing 1014
Health Assessment explores concepts related to the health assessment of individuals across the lifespan. The course will focus on the role of the nurse and development of competencies in health history interviewing, physical examination, interpretation of findings, and documentation.
Lectures: Three hours per week
Laboratory: Two hours per week
Co-requisite: Nursing 1012, 1015, 1016 and 1520

Nursing 1015
Health Promotion explores nursing concepts and theories pertaining to health promotion/protection throughout the lifespan. Content includes principles of teaching/learning, introduction to community population health and primary health care concepts and the determinants of health.
Lectures: Three hours per week
Prerequisite: Nursing 1003 and Nursing 1004

Nursing 1016
Caring for the Older Adult: Theory explores concepts and issues applicable to the health, wellbeing and nursing care/needs of the older adult. Emphasis will be placed on theories, normal physical changes, common chronic conditions, psychosocial, and ethical/legal issues associated with aging.
Lectures: Three hours per week
Prerequisite: 1002, 1003 and 1004
Co-requisite: Nursing 1012, 1014, 1015 and 1520
Nursing 1017
Fundamental Psychomotor Competencies provides the student an opportunity to acquire beginning psychomotor competencies that are necessary for the provision of client comfort and safety.

Credit hours: one
Lectures: None
Laboratory: Two hours per week
Co-requisite: Nursing 1002, 1003 and 1004

Nursing 1520
Caring for the Older Adult: Practice allows the student to integrate knowledge and practice the competencies acquired to date. The focus is the promotion, protection and maintenance of health for older individuals. During this clinical course, students will have the opportunity to provide care to clients with various health needs.

Clinical: 96 clinical hours during the semester
Prerequisite: Nursing 1002, 1003, 1004 and 1017
Co-requisite: Nursing 1012, 1014, 1015 and 1016

Philosophy

Philosophy 1002
Introduction to Philosophy is a general introduction to the study of philosophy both as a contemporary intellectual discipline and as a body of knowledge. It introduces philosophy’s forms of enquiry, the nature of its concepts, and its fields (epistemology, logic, metaphysics, aesthetics, ethics, and political philosophy) by way of the critical study of primary works by major philosophers. Authors may include Plato, Aristotle, Aquinas, Descartes, Hume, Kant, Nietzsche, de Beauvoir, Arendt.

Lectures: Three hours per week
Prerequisite: None

Philosophy 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.

Lectures: Three hours per week
Prerequisite: None
Physics

Selection of a physics course depends on a student’s background and ability. Students should refer to the course criteria chart prior to selecting their first-semester course.

Physics 1020

*Introductory Physics I* is an algebra-based introduction to Newtonian mechanics. Topics covered include motion in one and two dimensions, Newton’s laws, momentum, energy and work, and rotational motion. Previous exposure to physics would be an asset but is not essential.

**Lectures:** Three hours per week

**Laboratories:** Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

**Tutorials/Problem Sessions:** Scheduled during weeks when there are no laboratories, at the instructor’s discretion.

**Prerequisite:** Level III Advanced Mathematics or Mathematics 1090, Science 1807 and 1808. Mathematics 1090 may be taken concurrently.

**Notes:**

1. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

2. Students can receive credit for only one of Physics 1020 and 1050.

Physics 1021

*Introductory Physics II* is a non-calculus based introduction to fluids, wave motion, light, optics, electricity and magnetism.

**Lectures:** Three hours per week

**Laboratories:** Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

**Tutorials/Problem Sessions:** Scheduled during weeks when there are no laboratories, at the instructor’s discretion.

**Prerequisite:** Physics 1020 or 1050 and Mathematics 1090 or Math 1000, either of which may be taken concurrently; Science 1807 and 1808

**Note:** Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.
Physics 1050
General Physics I: Mechanics is a calculus-based introduction to mechanics. The course will emphasize problem solving.

Lectures: Three hours per week
Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

Tutorials/Problem
Sessions: Scheduled during weeks when there are no laboratories, at the instructor’s discretion.

Prerequisite: Mathematics 1000 (which may be taken concurrently), Science 1807 and 1808

Notes:

1. Students can receive credit for only one of 1020 or 1050.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Physics 1051
General Physics II: Oscillations, Waves, Electromagnetism is a calculus-based introduction to oscillations, wave motion, physical optics and electromagnetism.

Lectures: Three hours per week
Laboratories: Normally six laboratory sessions per semester, with each session lasting a maximum of two hours.

Tutorials/Problem
Sessions: Scheduled during weeks when there are no laboratories, at the instructor’s discretion.

Prerequisite: Physics 1020 (with a minimum grade of 70 per cent), 1021 or 1050 and Mathematics 1001. Mathematics 1001 may be taken concurrently; and Science 1807 and 1808.

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Political Science

Political Science 1000
Introduction to Politics and Government is an introduction to the study of politics, power, law, public policy and government, touching on major areas of political ideologies, institutions and current domestic and international political issues.

Lectures: Three hours per week
Prerequisite: None. Suitable for students in all disciplines
Political Science 1020
Issues in World Politics explores some of the world’s most pressing and interesting political issues.
Lectures: Three hours per week
Prerequisite: None. This course is suitable for students in all disciplines who have an interest in international politics.

Psychology

Psychology 1000
Introduction to Psychology is the first half of a two semester introduction to psychology as a biological and social science. Topics include history, research methodology, behavioural neuroscience, sensation and perception, consciousness, learning and memory.
Lectures: Three hours per week
Prerequisite: None

Psychology 1001
Introduction to Psychology is the second half of a two-semester introduction to psychology as a biological and social science. Topics may include emotion, motivation, stress and health, personality and individuality, psychological disorders and treatment and social psychology.
Lectures: Three hours per week
Prerequisite: Psychology 1000
Notes:

1. Psychology 1000 and 1001 are prerequisites for all other psychology courses.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

Religious Studies

Religious Studies 1000
The Religions of the World is an introduction to the basic beliefs and practices of the world's great religions.
Lectures: Three hours per week
Prerequisite: None

Science

Science 1807
Safety in the Scientific Laboratory introduces students to safety practices required for working in science laboratories where hazards are present. Students complete an online module in laboratory safety. Normally, it will be taken before the start of the semester in which students take their first science laboratory course with this prerequisite, and it must be completed no later than the first Friday of the semester. Check department lists of courses to see where this is a prerequisite.
Credit hours: None
Lecture hours: This course is offered online; completion time estimated to be one hour.

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Science 1808

WHMIS introduces students to Newfoundland and Labrador's Workplace Hazardous Material Information System (WHMIS). Students will complete an online module in WHMIS. Normally, it will be taken before the start of the semester in which students take their first science laboratory course with this prerequisite, and it must be completed no later than the first Friday of the semester. Check department lists of courses to see where this is a prerequisite.

Credit hours: None
Lecture hours: This course is offered online; completion time estimated to be one hour

Sociology

Sociology 1000

Introduction to Sociology is an introduction to the concepts, principles and topics of sociology. This course is a prerequisite to most departmental courses.

Lectures: Three hours per week
Prerequisite: None

Sociology 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.

Lectures: Three hours per week
Prerequisite: None

Sociology 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.

Lectures: Three hours per week
Prerequisite: None

Sociology 2200

Communities is an interdisciplinary examination of the concept of Community. Readings will include community studies from North America and Europe.

Lectures: Three hours per week
Prerequisite: None
Sociology 2230
Newfoundland Society and Culture focuses on social and cultural aspects of contemporary island Newfoundland.
Lectures: Three hours per week
Prerequisite: None

Sociology 2270
Families 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.
Lectures: Three hours per week
Prerequisite: None

Theatre

Theatre 1000 and 1001
Introduction to the History of Theatre I and II (available only at Grenfell Campus) 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
Prerequisite: None

Theatre 1010
Introduction to Acting (available only at Grenfell Campus) is an appreciation of the fundamentals of the craft of acting. Basic exercises invoice, 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.
Studio: Six hours per week
Prerequisite: None

Theatre 1020
Introduction to Technical Theatre Production (available only at Grenfell Campus) 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.
Studio: Six hours per week
Prerequisite: None
Theatre 1110

Acting I (available only at Grenfell Campus) is an introductory course for those majoring in acting. Emphasis is 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

**Prerequisite:** Theatre 1000, Theatre 1010 and 1020

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Theatre 1200

Concert Dance is an overview of the basic techniques of Western concert dance such as jazz, ballet, and contemporary dance within their historical, cultural, and aesthetic contexts. The course develops basic body awareness and alignment and explores the basics of codified dance technique. This course is open to non-Theatre students. Attendance is required.

**Studio hours:** Three hours of studio per week

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Theatre 1120

Technical Theatre Production I (available only at Grenfell Campus) is an introductory course for those majoring in technical theatre production. Emphasis is 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

**Prerequisite:** Theatre 1000, 1010 and 1020

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Theatre 1250

Improvised Movement and Conditioning is an exploration of the basic development of healthy physical practice for movement training including conditioning and improvisation. Students will investigate body awareness, anatomy, self-expression, dynamic alignment, and the basic principles of creating movement-based performances. This course is open to non-Theatre students. Attendance is required.

**Studio hours:** Three hours of studio per week
Tourism

Tourism 1000
Principles of Tourism This course 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. â—¦Note: Credit may not be obtained for both Tourism 1000 and HKR 3565
Lectures: Three hours per week
Prerequisite: None

Visual Arts

Visual Arts 1010
Introduction to Drawing (available only at Grenfell Campus) introduces the fundamentals of drawing with study of line, tone, shape, volume, form, texture and space. This course includes practice-based research methodologies.
Co-requisite: Visual Arts 1911
Studio: Four hours per week
Note: Attendance is required

Visual Arts 1110
Painting: Colour, Materials, and Processes (available only at Grenfell Campus) introduces the concepts, principles, and processes of painting. Students will be introduced to paint mediums, materials, and tools with a focus on colour, all within the context of contemporary art practices.
Co-requisite: Visual Arts 1911
Studio: Four hours per week
Note: Attendance is required

University

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.
Visual Arts 1210
**Introduction to Sculpture** (available only at Grenfell Campus) introduces the exploration of three-dimensional form, sculpture materials and processes, and of the organization of relationships and interactions between objects and space.
**Co-requisite:** Visual Arts 1911
**Studio:** Four hours per week
**Note:** Attendance is required

Visual Arts 1310
**Printmaking: Relief and Screenprinting** (available only at Grenfell Campus) introduces visual language and concepts in conjunction with printmaking methods, materials and techniques via projects in relief and screenprinting.
**Co-requisite:** Visual Arts 1911
**Studio:** Four hours per week
**Note:** Attendance required

Visual Arts 1410
**Photography** (available only at Grenfell Campus) introduces the theory and technique of photography using the digital camera and its controls and incorporating the use of Photoshop for photography. The course also introduces theories and genres of photographic vision, the use of the medium to explore a personal vision, image editing, and service bureau printing.
**Co-requisite:** Visual Arts 1911
**Studio:** Four hours per week
**Note:** Attendance is required

Visual Arts 1520
**Textile and Fibre Art** (available only at Grenfell Campus) explores various textile and fibre materials and processes used in contemporary art studio practice.
**Co-requisite:** Visual Arts 1911
**Studio:** Four hours per week
**Note:** Attendance is required
**Visual Arts 1610**  
**Introduction to Computers and Art** (available only at Grenfell Campus) provides an initial exploration of how computational technology can be a creative tool applied to all creative practices involving the essential applications for imaging and dissemination, includes but is not limited to vector illustration, photo manipulation, digital painting and use of presentation technologies. A key notion in this course is that of personal workflow approaches.  
**Co-requisite:** Visual Arts1911  
**Studio:** Four hours per week  
**Note:** Attendance is required

**Visual Arts 1810**  
**Introduction to Time-Based Art** (available only at Grenfell Campus) introduces students to art practices that employ time, such as animation, video, sound art, and live art. This course may require attendance at screenings, performances, and/or visiting artist presentations outside of class time. This course includes practice based research methodologies.  
**Co-requisite:** Visual Arts1911  
**Studio:** Four hours per week  
**Note:** Attendance is required

**Visual Arts 1911**  
**Fine Arts Health and Safety** (available only at Grenfell Campus) provides an overview to the culture and practice of health and safety in studio courses, as well as giving students information that will help them succeed at Grenfell Campus. This component is delivered through a series of workshops, demonstrations, lectures, and online training. The course includes: WHMIS, Personal Protective Equipment, art materials safety, basic First-Aid, studio protocols, tours and lectures to acquaint students with campus resources, and the purchase of a safety kit, WHMIS fees, and a course manual. This course is a co-requisite for all 1000 level studio courses. This is a pass/fail course and requires attendance at all sessions and completion of all online components.  
**Credit hours:** Zero  
**Notes:**

1. Attendance is required.

2. Twelve contact hours and supplementary online components.
ADDITIONAL FIRST-YEAR VISUAL ARTS COURSES
(Subject to availability)

Visual Arts 1000
Introduction to Two-Dimensional Art Practices (Available only at Grenfell Campus) provides an introduction to two-dimensional art practices with selections made from drawing, painting, and printmaking. Design elements and principles, aesthetic concerns, the study of colour, and fundamental concepts of a variety of two-dimensional media, materials and processes will be explored. Ways of describing, analyzing, interpreting and assessing art will be examined. This course is open to both visual arts and non-visual arts students.
Co-requisite: Visual Arts 1911
Notes:
1. 4 hours of studio per week
2. Attendance is required
3. This studio course is also open to Non-Visual Arts Students

Visual Arts 1001
Introduction to 3D, Photo and Time-based Art Practices (Available only at Grenfell Campus) provides an introduction to 3D, photo and time-based art practices with selections from sculpture, installation, photo-media, time-based art and related practices. Design elements and principles, postmodern strategies, aesthetic concerns, and fundamental concepts of a variety of media, materials, and processes will be explored. Ways of appreciating art and artistic processes will be examined. This course is open to both visual arts and non-visual arts students.
Co-requisite: Visual Arts 1911
Notes:
1. 4 hours of studio per week
2. Attendance is required
3. This studio course is also open to Non-Visual Arts Students
ACADEMIC SERVICES – GRENFELL CAMPUS

Academic Advising

As a first-year, first-semester student, you will be assigned a faculty advisor. Your advisor can help you make informed decisions when selecting courses and degree programs. Advisors act as referral agents, directing you to the appropriate person/department should you require information or services beyond their areas of expertise.

The manager, Academic Advising, coordinates faculty advising and is available to all students requiring academic information, and is located in the Office of the Registrar, AS 277. Contact: dejackman@grenfell.mun.ca or toll-free at 1 (866) 381-7022. Any student who is not assigned an academic advisor by the end of the first week of classes should contact the Office of the Registrar, AS 277 or call (709) 637-6298.

Computer Services

You will have access to modern computer labs and appropriate software around the Grenfell Campus. A Grenfell computer account will be automatically set up for you when you register and information about this will be sent to your MUN email. This account will provide you with access to: Grenfell email, Office 365, Computer Login (Labs, Library, public areas), Printing, My Grenfell, and Data Storage.

Wireless access is available, and has been recently upgraded, giving students the freedom to access the Internet from anywhere on campus, including residence and chalets. For more information, please visit: www.grenfell.mun.ca/its; contact the ITS Service Desk at (709) 639-2049, or through email at its@grenfell.mun.ca.

Ferriss Hodgett Library

The library is a multimedia learning resource and information centre, with a collection of more than 150,000 books, eBooks, scholarly journals, DVDs and streaming film and audio collections. Grenfell Campus students also have access to over one million resources available in other Memorial University libraries. We offer students access to emerging technologies, including eBook readers and iPads and other equipment necessary to their studies like digital voice recorders, scientific calculators, portable DVD players and more.
The Information Commons provides computers to access the library's online resources, the Internet, and printers. Students can also bring their laptops and use the campus wireless network. We have a wide variety of study areas as well as group study rooms. During exam periods, the library offers late-night hours and free coffee and healthy snacks to students. Help is always available, in person or through our chat reference service, which enables students to chat live with library staff online.

Language Lab

Grenfell Campus is equipped with a state-of-the-art computerized language lab, using the system CAN 8.

Learning Centre

Academic support programs and services at Grenfell Campus are offered through the award-winning Learning Centre, a one-stop shop for academic support at Grenfell Campus. The centre also operates the Summer Bridging Program as well as a number of programs and sessions designed to teach students the academic skills that they need to succeed at university, such as time management, note-taking and study skills strategies. The centre offers free help in mathematics and writing as well as peer tutoring in most disciplines. The Supplemental Instruction (SI) Program, an academic assistance program where student leaders organize and facilitate study sessions in high risk courses, is also available.
STUDENT SERVICES - GRENFELL CAMPUS

Aboriginal support

Student Services provides a variety of services to the Aboriginal student population attending Grenfell Campus. The Student Affairs Officer-Aboriginal Affairs assists and/or refers students on matters related to: admission requirements, adaptation to an academic/urban environment, and connections with the Aboriginal community on and off campus. Activities are organized on campus to raise awareness about Aboriginal cultures and develop opportunities to engage Aboriginal students in life at Grenfell Campus, and an Aboriginal peer mentoring program is available. Contact mailto:studentservices@grrenfell.mun.ca for more information; visit ‘Grenfell Aboriginal Affairs’ on Facebook, and check out our weekly “Striver”.

Bookstore

Grenfell Campus Bookstore is located on the main floor of the Arts and Science Building. When buying textbooks it is usually a good idea to wait until after your first class to be sure that you are buying the correct books for your course section.

In addition to new and used books, textbooks and course supplies, the bookstore also carries a large selection of art supplies, frames, stationery, greeting cards, toiletries to meet your daily needs, crested items and clothing, as well as a multitude of other items for your convenience and pleasure. Check out our general book selection for your own leisure reading and gifts and our reference section to aid your studies. Students should retain receipts for income tax purposes.

Campus Enforcement and Patrol (CEP)

Campus Enforcement and Patrol (CEP) is the security force for Grenfell Campus, Memorial University. They are responsible for the safety and security of students, faculty, staff and guests and for the security of Grenfell Campus property. For non-emergencies call (709) 637-6210. In case of an emergency call (709) 637-2888.
Campus Tours

The best way to discover more about campus life is to arrange a tour. Campus tours are available for individuals as well as groups. To arrange a tour, please call the Office of Student Recruitment at (709) 637-6269, toll-free at 1 (888) 637-6269.

Career Development

The Grenfell Office of Engagement facilitates career success by providing students with job building strategies, employment connections and community engaged learning opportunities. The Career Development Coordinator will help students to create a path for their future career. Visit us in room FC 4024 or www.grenfell.mun.ca/go-engagement.

Counselling

Grenfell Campus has a full time registered psychologist and a part-time counsellor who provide individual and group counselling for a variety of mental health concerns free of charge to students. Counselling and Psychological Services (CPS) is located within Health Services in the Bennett Wing of the Arts and Science Residence.

Appointments can be made in person at the Health Services Reception (BW 243), by calling (709) 637-7919, (email requests for appointments are not accepted).

Psychoeducational assessments for learning disorders are also available through (CPS) on a fee-for-service basis.

Nursing students should consult the nursing student handbook for additional information about the part time counsellor located at Monaghan Hall who works exclusively with nursing students.

Student Services Food Bank

Grenfell Campus students in need of food are welcome to access the emergency student food bank in the Arts and Science building AS 114. The food bank is accessible Monday to Friday, 8:30 am - 4:30 pm (subject to the availability of volunteers). Students are required to bring their student IDs. For more information, contact studentservices@grenfell.mun.ca.
Grenfell Campus Student Union (GCSU)

The Grenfell Campus Student Union is the students’ voice in all issues that affect the student population. It organizes activities and services to enhance the educational, cultural, environmental, political and social conditions of its members.

The GCSU also offers the student body many services including a comprehensive health plan, optional dental plan, clubs and societies and special events. Visit www.gcsuonline.ca/ for more information!

International Student Services

Student Services offers a number of programs and services for international students. New international students have access to a Handbook, which will assist with their transition to Canada and specifically Newfoundland and Labrador. A greeting program is in place for new international students, who are encouraged to communicate through the Facebook group for incoming international students prior to arrival. In addition, workshops, social events, and activities are offered in order to allow international students the opportunity to meet other students, get involved in the community and experience Newfoundland and Labrador culture.

Health Services

Health Services, Grenfell Campus provides students with access to a variety of health services, such as physiotherapy, chiropractor, massage, dietitian and physician clinics to help you live well, feel good, and achieve your goals. In addition, Health Services has partnered with the Western Regional School of Nursing, to offer various healthy living sessions. Grenfell Campus Health Services is located in the Bennett wing on the main floor of the Arts and Science Building.

Student Exchange Opportunities

Grenfell Campus has exchange opportunities available for our students all over the world. The best part is that you continue to pay Grenfell tuition while on exchange! You can choose to spend a semester (or two) in one of hundreds of different locations worldwide, and exchange opportunities exist for any program you take at Grenfell. We even have an option that is only available to Grenfell students, the National Student Exchange program. If you would like to learn more about exchange before
coming to Grenfell, email Nicole Miller at exchangeprograms@grenfell.mun.ca.

Orientation

The first week at university can be confusing and intimidating for new students. Student Services and the Grenfell Campus Student Union coordinate an orientation program throughout the whole month of September to help students adjust to university life, become familiar with the campus, have fun, and make new friends.

Student Services hosts a parent orientation which includes campus tours, as well as various presentations and seminars. This program provides parents and guardians of first-year students with useful information on services and supports available at Grenfell Campus. Parent Orientation enables parents to be helpful and supportive in students’ transition from high school to university. An information package about parents’ orientation will be sent to parents prior to the beginning of the fall semester.

Recreation

Grenfell Campus offers a distinctive program of recreation and wellness activities that contribute to the well-being and personal and social development of students. The campus has a double gymnasium. Students at Grenfell have the opportunity to participate in a variety of different recreation programs, such as: intramural sports, water aerobics, step aerobics, yoga, downhill skiing, and curling. Students also have access to a fitness centre (which includes cardio equipment, weights and squash courts), skating, hockey and a walking track. Students may purchase a recreation pass in order to participate in these activities. Check out our website for more information or call (709) 637-6232.

Competitive Sport

Competitive sport is growing steadily at Grenfell Campus. With a newly-renovated gymnasium, weekly strength and conditioning sessions and an increase in travel throughout Atlantic Canada to compete, our basketball and volleyball teams are building their reputation as university level programs. Grenfell Campus has also increased its sport offerings in the last year to include cross country skiing and swimming, which will train with the Blow Me Down club and Corner Brook Rapids respectively and compete in provincial competitions. For more information please check our website: www.grenfell.mun.ca/current-
Scholarships, awards and financial services Grenfell

Campus offers a variety of scholarships to students. Most Memorial University scholarships are tenable at either campus of the university; however, a few major scholarships are specially designed for students attending Grenfell Campus. For more information, see www.grenfell.mun.ca/scholarships.

Student Services also regularly invites representatives to the campus to assist with questions concerning student loans. For more information, contact studentservices@grenfell.mun.ca.

Students with Disabilities

Grenfell Campus aspires to be a barrier-free institution that provides equal opportunities to all students. If you need assistance or special arrangements because of a disability, please contact studentservices@grenfell.mun.ca prior to the beginning of the semester to ensure accommodations are in place for your arrival.

Student employment

A number of part-time job opportunities exist around campus in various departments, including library, the office of Engagement, and Grenfell Campus Student Union (GCSU). As well, the Memorial Undergraduate Career Experience Program (MUCEP) enables students to work 40 or 80 hours per semester and provides valuable work experience for future employment. Job listings are posted at the start of each semester.

Student Housing

Grenfell Campus is a living/learning community, as approximately one-half of students live on campus. Students can choose to live in a residence hall or in a chalet apartment. In the residences, all rooms are single with every two rooms forming a suite, in which two students share a fridge and bathroom. Each floor has a kitchen/lounge where students are encouraged to prepare meals and enjoy each other’s company. There is also a small food court on campus where students can purchase meals. The residences are equipped with a laundry facility, and every residence bedroom is wired for Internet and digital telephone service. There are residence assistants (RAs) on each floor who are responsible for students on that floor. The RAs,
together with the Residence Councils, develop numerous social and educational programs and activities throughout the year.

Each of our chalet apartments provides accommodations for four students. These chalets are usually reserved for students in their second year and beyond. Each apartment has a living room, kitchen and one and one-half baths.

Like the residence, however, each student has his or her own room. Individual phones and internet ports are also provided.

The online student housing application is separate from the application for admission to the university and students are encouraged to apply early.

Grenfell Campus offers a room guarantee to all new students who apply for residence by March 1 and who have been accepted or provisionally accepted to the university. A $20 application fee is required.

Note: Some other conditions apply. Students are encouraged to check the Housing website or contact the housing office: (709) 637-6266 or email grenfellhousing@grenfell.mun.ca.

For more detailed information or to complete an online application please visit our website.

**On Campus Food Services**

The Grove is Grenfell Campus’ dining hall. The Grove offers both dine-in and take-out food services and has a variety of entrees available, including vegetarian, vegan, and gluten-free options. For more information, please visit [www.campusgrove.ca](http://www.campusgrove.ca/).

**Optional Meal Plan**

Students can purchase optional meal plan cards online. Meal plans are convenient, secure and risk-free, as unused declining balance dollars from the fall/winter semester may be carried over to following semesters. Current and returning students can also top-up their existing Grove meal cards online or directly at the dining hall. The balance of the card will decline with each purchase in the same manner as a gift card. Meal plan purchases of $1000.00 or more in a single transaction are HST (15) exempt. For example, students will save $150.00 on the purchase of a $1000.00 meal plan or save $300 on the purchase of a $2000 meal plan. For more information, please visit [www.campusgrove.ca](http://www.campusgrove.ca).
CHEMISTRY CRITERIA CHART

The following charts outline the requirements for first-year courses in Chemistry at their respected campus.

St. John’s Campus

Students with questions regarding registration in first year chemistry courses at the St. John’s campus should contact the Deputy Head, Undergraduate Studies, Department of Chemistry, Dr. Chris Flinn, cgflinn@mun.ca, before registering for a chemistry course.

<table>
<thead>
<tr>
<th>Course</th>
<th>Provincial Students</th>
<th>National and International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1010</td>
<td>Students with no chemistry background, those having completed Chemistry 2202 only or those with a grade of less than 65% in Chemistry 3202 must take this course.</td>
<td>Students with no chemistry background, a weak chemistry background or Grade 12/ Senior Secondary Chemistry with a grade of less than 65% must take this course.</td>
</tr>
<tr>
<td>CHEM 1050</td>
<td>Chemistry 3202 with a grade of at least 65%.</td>
<td>Grade 12/ Senior Secondary Chemistry with a grade of at least 65%.</td>
</tr>
</tbody>
</table>

Grenfell Campus

<table>
<thead>
<tr>
<th>Course</th>
<th>Provincial Students</th>
<th>National and International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1810</td>
<td>Course is intended for students with no previous exposure to chemistry or those who are returning to the subject after some time.</td>
<td></td>
</tr>
<tr>
<td>CHEM 1200</td>
<td>Completed Chemistry 3202 with a grade of at least 65 percent or achieved a grade of at least 80 percent in Chemistry 2202.</td>
<td>Grade 12 Chemistry with a grade of at least 65 percent or achieved a grade of at least 80 per cent in Grade 11 Chemistry.</td>
</tr>
</tbody>
</table>

Students with questions regarding registration in first year chemistry courses at Grenfell Campus should contact Dr. Ian Warkentin, ian.warkentin@grenfell.mun.ca before registering for a chemistry course.
The following charts outline the requirements for first-year courses in French at their respected campus.

**St. John’s Campus**

Native Francophones should consult the French department at (709) 864-7636 or languages@mun.ca

<table>
<thead>
<tr>
<th>Course</th>
<th>Provincial Students</th>
<th>National and International Students</th>
</tr>
</thead>
</table>
| FREN 1500 | This course is appropriate for students with little or no background in French and for students who completed French 3200 or 3201 with a grade less than 80 %.  
Permission to register for this course will not be given to students who have completed high school French immersion | This course is appropriate for students with little or no background in French and for students who completed core French courses in high school and achieved a grade less than 80%
Permission to register for this course will not be given to students who have completed high school French immersion |
| Note: If you meet the criteria above and are not able to register for French 1500 contact languages@mun.ca |
| FREN 1501 | French 3200 or 3201 with a grade of 80 % or greater  
This course is not appropriate for graduates of French immersion programs | Grade 12/ Senior Secondary core French with a grade of 80% or greater  
This course is not appropriate for graduates of French immersion programs |
| FREN 1502 | French 3200 with a grade of 90% or greater  
or Français 3202 with a grade less than 85% | Grade 12/ Senior Secondary core French with a grade of 90% or greater  
or Grade 12/ Senior Secondary French immersion with a grade less than 85% |
| Course     | Provincial Students                                                                                                                                                                                          | National and International Students                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FREN 2100  | Français 3202 with a grade of 85% or greater                                                                                                                                                                   | Grade 12/ Senior Secondary French immersion with a grade of 85% or greater is recommended               |
|            | Note: students who achieve a grade of 4 or 5 on the AP examination in French language are normally well prepared for French 2100 and 2159.                                                                        |                                                                                                                                                             |

**Grenfell Campus**

| Course     | Provincial Students                                                                                                                                                                                          | National and International Students                                                                 |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FREN 1500  | This course is appropriate for students with little or no background in French and for students who completed French 3200 or 3201 with a grade less than 80%.                                                   | This course is appropriate for students with little or no background in French and for students who have completed core French courses in high school and achieved a grade less than 80% |
| FREN 1501  | French 3200 or 3201 with a grade of 80% or greater.                                                                                                                                                           | Grade 12/ Senior Secondary core French with a grade of 80% or greater                                  |
|            | Graduate of French Immersion programs with a grade less than 80% in Francais 3202                                                                                                                             | Graduates of French Immersion programs with less than 80% in their final French course                 |
| FREN 1502  | French 3200 with a grade of 90% or greater or Francais 3202 with a grade of 80% or greater                                                                                                                      | Grade 12/ Senior Secondary core French with a grade of at least 90% or                                    |
|            | Grade 12/ Senior Secondary French immersion with a grade of 80% or greater in their final French course                                                                                                      | Graduates of French Immersion programs with less than 80% in their final French course                 |
**MATH CRITERIA CHART**

The following charts outline the requirements for first-year courses in Mathematics at their respected campus.

Students may write the SAT® Subject Test in Mathematics Level I (SATMI) as often as they wish. It is recommended that students write the SATMI in order to receive their score prior to registration. Dates for the SATMI can be found at [www.collegeboard.org](http://www.collegeboard.org).

**St. John's Campus**

<table>
<thead>
<tr>
<th>Course</th>
<th>Required Prerequisite</th>
<th>Provincial Students</th>
<th>National and International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1050 or MATH 1051 Finite Mathematics</td>
<td>Math 3200 with a grade of 50% or greater or Math 3201 with a grade of 50% or greater</td>
<td>Grade 12/ Senior Secondary Academic or Advanced Math or equivalent with an MPT score of at least 50 or 550 on the SATMI</td>
<td></td>
</tr>
<tr>
<td>MATH 109A/B Algebra and Trigonometry</td>
<td>Math 3201 with a grade between 65% and 74%, inclusive</td>
<td>Grade 12/Senior Secondary Academic or Advanced Math or equivalent with an MPT score between 50% and 55%, and permission from the department</td>
<td></td>
</tr>
<tr>
<td>MATH 1090 Algebra and Trigonometry</td>
<td>• Math 3200 with a grade of 50% or greater • Math 3201 with a grade of 75% or greater</td>
<td>Grade 12/Senior Secondary Academic or Advanced Math or equivalent with an MPT score of at least 55 or 600 on the SATMI</td>
<td></td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Requirements</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>MATH 1000</td>
<td>Calculus I</td>
<td>- Math 3200 with a grade of 75% or greater</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or</td>
<td>- Math 3200 with a grade between 50 – 74% and MPT score of at least 75 or 700 on the SATMI</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- A score of at least four in Standard Level Mathematics from the International Baccalaureate® program</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STAT 1510</td>
<td>- A score of 700 on the SATMI</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Statistical Thinking and Concepts</td>
<td>- Grade 12 Advanced Math with an MPT score of 75% or greater</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- A score of at least four in Standard Level Mathematics from the International Baccalaureate® program</td>
<td></td>
</tr>
<tr>
<td>MATH 1001</td>
<td>Calculus II</td>
<td>Credit for Math 1000 or a grade of 50% or greater on the CPT</td>
<td></td>
</tr>
</tbody>
</table>

The MPT and CPT may be written only once. The CPT is offered the first day of classes in fall and winter. Students without MATH 3208 must have permission from the Department to take the CPT. The MPT is written the day before classes in fall, and the first day of classes in winter and spring.
### Required Prerequisite

<table>
<thead>
<tr>
<th>Course</th>
<th>Required Prerequisite</th>
<th>National and International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATH 1052</strong> or <strong>MATH 1053</strong></td>
<td>* Finite Mathematics</td>
<td>* Grade 12/ Senior Secondary Academic or Advanced Math or equivalent and do not want or require calculus*</td>
</tr>
<tr>
<td></td>
<td>Math 3200 or 3201 and do not want or require calculus</td>
<td></td>
</tr>
<tr>
<td><strong>MATH 1090</strong></td>
<td>* Math 3200 or 3201</td>
<td>* Grade 12/ Senior Secondary Academic or Advanced Math or equivalent*</td>
</tr>
<tr>
<td>Algebra and Trigonometry</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MATH 1000</strong></td>
<td>* Math 3200 with a grade of 75% or greater</td>
<td>* Grade 12/ Senior Secondary Advanced Math with an MPT score of at least 75 or 700 on the SATMI*</td>
</tr>
<tr>
<td>Calculus I</td>
<td>* Math 3200 with a grade between 50 – 74% and MPT score of at least 75 or 700 on the SATMI*</td>
<td>* A score of at least four in Standard Level Mathematics from the International Baccalaureate® program*</td>
</tr>
<tr>
<td></td>
<td>* A score of at least four in Standard Level Mathematics from the International Baccalaureate® program*</td>
<td>* Students who do not get a sufficient score on the MPT will be required to complete Math 1090 before taking Math 1000*</td>
</tr>
<tr>
<td></td>
<td>* Students who do not get a sufficient score on the MPT will be required to complete Math 1090 before taking Math 1000*</td>
<td></td>
</tr>
<tr>
<td><strong>MATH 1001</strong></td>
<td>Credit for Math 1000 or a grade of 50% or greater on the CPT</td>
<td></td>
</tr>
</tbody>
</table>

The Mathematics Placement Test (MPT) and the Calculus Placement Test (CPT) may be written only once. The CPT will be offered on the first Saturday in June at 30 sites in Newfoundland and Labrador. At Grenfell Campus the MPT and CPT will also be administered on the day before classes begin for fall semester and on the first day of classes in winter semester.
PHYSICS CRITERIA CHART

The following charts outline the requirements for first-year courses in Physics at their respected campus.

St. John’s Campus

<table>
<thead>
<tr>
<th>Course</th>
<th>Provincial Students</th>
<th>National and International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1020</td>
<td>Level III advanced mathematics or Mathematics 1090. Mathematics 1090 may be taken concurrently.</td>
<td>High School physics recommended.</td>
</tr>
<tr>
<td></td>
<td>Physics 2204 or 3204; however, 1020 may be completed by someone who has no physics background with some extra effort.</td>
<td>Eligible for and registered in Mathematics 1090.</td>
</tr>
<tr>
<td>PHYS 1050</td>
<td>Physics 2204 and Physics 3204 with a grade of 70% or greater recommended</td>
<td>High School physics with a grade of 70% or greater recommended</td>
</tr>
<tr>
<td></td>
<td>Eligible for and registered in Mathematics 1000.</td>
<td>Eligible for and registered in Mathematics 1000.</td>
</tr>
<tr>
<td>Course</td>
<td>Provincial Students</td>
<td>National and International Students</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>PHYS 1020</td>
<td>Level III advanced mathematics or Mathematics 1090. Mathematics 1090 may be taken concurrently.</td>
<td>High School physics recommended.</td>
</tr>
<tr>
<td></td>
<td>Physics 2204 or 3204; however, 1020 may be completed by someone who has no physics background with some extra effort.</td>
<td>Eligible for and registered in Mathematics 1090.</td>
</tr>
<tr>
<td>PHYS 1050</td>
<td>Physics 2204 and Physics 3204 with a grade of 70% or greater recommended</td>
<td>High School physics with a grade of 70% or greater recommended</td>
</tr>
<tr>
<td></td>
<td>Eligible for and registered in Mathematics 1000.</td>
<td>Eligible for and registered in Mathematics 1000.</td>
</tr>
</tbody>
</table>
ADVANCED PLACEMENT (AP) TRANSFER CREDIT CHART

Course-based transfer credit will be granted to applicants completing Advanced Placement (AP) subjects with the minimum grades outlined below.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>MINIMUM GRADE REQUIRED</th>
<th>MEMORIAL UNIVERSITY CREDIT RECOMMENDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>4</td>
<td>Biology 1001 + 3 unspecified credit hours</td>
</tr>
<tr>
<td>Chemistry</td>
<td>3</td>
<td>Chemistry 1010 or 1200</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>Chemistry 1050</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Chemistry 1050 + 1051 or 1200 + 1001</td>
</tr>
<tr>
<td>Computer Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3</td>
<td>Computer Science 1XX3</td>
</tr>
<tr>
<td>Computer Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Principles</td>
<td>3</td>
<td>Computer Science 1000</td>
</tr>
<tr>
<td>Economics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3</td>
<td>Economics 1010</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3</td>
<td>Economics 1020</td>
</tr>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Literature/Composition</td>
<td>4</td>
<td>English 1090 or 1000</td>
</tr>
<tr>
<td>Language/Composition</td>
<td>--</td>
<td>No credit recommended</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>3</td>
<td>Environmental Science 1000</td>
</tr>
<tr>
<td>Fine Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio Art</td>
<td>3</td>
<td>To be evaluated on an individual basis</td>
</tr>
<tr>
<td>French</td>
<td></td>
<td></td>
</tr>
<tr>
<td>French Language</td>
<td>3</td>
<td>French 1500</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>French 1500 + 1501</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>French 1501 + 1502</td>
</tr>
<tr>
<td>French Literature</td>
<td>4</td>
<td>French 2601</td>
</tr>
<tr>
<td>SUBJECT</td>
<td>MINIMUM GRADE REQUIRED</td>
<td>MEMORIAL UNIVERSITY CREDIT RECOMMENDED</td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>------------------------</td>
<td>--------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>French</strong></td>
<td>5</td>
<td>French 2601 + 3 unspecified credit hours (second year level)</td>
</tr>
<tr>
<td><strong>German</strong></td>
<td>4</td>
<td>German 1000</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>German 1000 + 1001</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art History</td>
<td>3</td>
<td>To be evaluated on an individual basis</td>
</tr>
<tr>
<td>European History</td>
<td>3</td>
<td>History 2300 + 2310</td>
</tr>
<tr>
<td>United States History</td>
<td>3</td>
<td>History 2600 + 2610</td>
</tr>
<tr>
<td>World History</td>
<td>3</td>
<td>History 2500 + 2510</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3</td>
<td>Math 1000</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>3</td>
<td>Math 1000</td>
</tr>
<tr>
<td><strong>Music Theory</strong></td>
<td>4</td>
<td>Music 1105</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>Music 1106</td>
</tr>
<tr>
<td><strong>Physics</strong></td>
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<tr>
<td>Physics 1</td>
<td>3</td>
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<td>Physics 2</td>
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</tr>
<tr>
<td>Physics C: Mechanics</td>
<td>3</td>
<td>Physics 1050</td>
</tr>
<tr>
<td>Physics C: Electricity &amp; Magnetism</td>
<td>3</td>
<td>Physics 1051</td>
</tr>
<tr>
<td><strong>Political Science</strong></td>
<td></td>
<td></td>
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<tr>
<td>United States Govt. &amp; Politics</td>
<td>4</td>
<td>Political Science - 3 unspecified credit hours</td>
</tr>
<tr>
<td>Comparative Govt. &amp; Politics</td>
<td>4</td>
<td>Political Science - 3 unspecified credit hours</td>
</tr>
<tr>
<td><strong>Psychology</strong></td>
<td>4</td>
<td>Psychology 1001*                                                        * With an AP score of 5, a student may substitute a 2000 level non-restricted psychology course for Psychology 1000</td>
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<tr>
<td><strong>Statistics</strong></td>
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<td>Statistics 2500</td>
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Course-based transfer credit will be granted to applicants completing Higher Level (HL) and Standard Level (SL) subjects with the minimum grades outlined below.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>LEVEL</th>
<th>MINIMUM GRADE REQUIRED</th>
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<td>Biology 1001 + 1002</td>
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<td>Business 1000 + 9 unspecified credit hours</td>
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<td></td>
<td>Standard Level</td>
<td>4</td>
<td>Business 1000 + 3 unspecified credit hours</td>
</tr>
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<td>Chemistry</td>
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<td>6</td>
<td>Chemistry 1050 + 1051</td>
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<tr>
<td></td>
<td></td>
<td>5</td>
<td>Chemistry 1050 or 1200 + 1810</td>
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<tr>
<td></td>
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<td>4</td>
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</tr>
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<td>Standard Level</td>
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<td>Chemistry 1010 or 1810</td>
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<td>Religious Studies 1040 + 1041</td>
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<td>Standard Level</td>
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<tr>
<td>Higher Level</td>
<td>4</td>
<td>Economics 1010 + 1020 + 3030 + 3 unspecified credit hours (second year level)</td>
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</tr>
<tr>
<td>Standard Level</td>
<td>4</td>
<td>Economics - 3 unspecified credit hours (second year level)</td>
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<tr>
<td><strong>English A: Language &amp; Literature</strong></td>
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<tr>
<td>Higher Level</td>
<td>4</td>
<td>English 1090 + 1101 or 1000 + 1001</td>
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<td>English 1090</td>
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<td><strong>English A: Literature</strong></td>
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<td>Higher Level</td>
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<td>English 1090 + 1101</td>
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<td>Standard Level</td>
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<tr>
<td><strong>English A1</strong></td>
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<tr>
<td>Higher Level</td>
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<td>English 1090 + 1101</td>
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<tr>
<td><strong>English B: Language</strong></td>
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<td></td>
</tr>
<tr>
<td>Higher Level</td>
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</tr>
<tr>
<td><strong>Environmental Systems &amp; Societies</strong></td>
<td></td>
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<tr>
<td>Standard Level</td>
<td>4</td>
<td>Environmental Science 1000 + Environment/Sustainability 1000</td>
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<tr>
<td><strong>French AB</strong></td>
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<tr>
<td>Standard Level</td>
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<td>French 1500</td>
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<td><strong>French B</strong></td>
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</tr>
<tr>
<td>Higher Level</td>
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<td>French 1501 + 1502</td>
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<td>Standard Level</td>
<td>4</td>
<td>French 1500 + 1501</td>
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<td><strong>Geography</strong></td>
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<tr>
<td><strong>German</strong></td>
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<tr>
<td>Higher Level</td>
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<tr>
<td><strong>Global Politics</strong></td>
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<tr>
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<tr>
<td><strong>History</strong></td>
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<tr>
<td>Higher Level</td>
<td>4</td>
<td>History - 6 unspecified credit hours (second year level)</td>
<td></td>
</tr>
<tr>
<td>Standard Level</td>
<td>4</td>
<td>History - 3 unspecified credit hours (second year level)</td>
<td></td>
</tr>
</tbody>
</table>

| **Information Technology in a Global Society** |                         |                                        |
| Higher Level                           | 4                       | Computer Science - 3 unspecified credit hours (second year level) |
| Standard Level                         | 4                       | Computer Science - 3 unspecified credit hours (first year level) |

| **Italian AB**                         |                         |                                        |
| Standard Level                         | 4                       | Language 1100                          |

| **Italian B**                          |                         |                                        |
| Higher Level                           | 4                       | Language 1100 + 1101                   |
| Standard Level                         | 4                       | Language 1100 + 1101                   |

| **Marine Science**                     |                         |                                        |
| Standard Level                         | -                       | To be evaluated                        |

| **Mathematics**                        |                         |                                        |
| Further Mathematics                    | 4                       | Math 1001, 2050, 2320 + Statistics 2550 |
| Higher Level                           | 5                       | Math 1000                              |
| Standard Level                         | 4                       | No credit (Permission granted by department to allow direct entry into Math 1000) |
| Math Studies                           | -                       | No credit (Academic Math for Admissions purposes, non-NL students) |

<p>| <strong>Music</strong>                              |                         |                                        |
| Higher Level                           | 5                       | Music 1120 + 2012 + 4 unspecified credit hours (first year level) in applied music |
| Standard Level                         | 5                       | Music 2012                             |</p>
<table>
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<tr>
<th>SUBJECT</th>
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<td>Philosophy - 6 unspecified credit hours</td>
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<tr>
<td>Standard Level</td>
<td>4</td>
<td>Philosophy - 3 unspecified credit hours</td>
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<tr>
<td><strong>Physics</strong></td>
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<tr>
<td>Higher Level</td>
<td>4</td>
<td>Physics 1020 + 1021</td>
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<tr>
<td>Standard Level</td>
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<td>No credit</td>
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<tr>
<td><strong>Psychology</strong></td>
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</tr>
<tr>
<td>Higher Level</td>
<td>4</td>
<td>Psychology 1000 + 1001 + 3 unspecified credit hours</td>
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<tr>
<td>Standard Level</td>
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<td>Psychology 1000 + 1001</td>
</tr>
<tr>
<td><strong>Russian</strong></td>
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<td>Higher Level</td>
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<td>Russian 2601</td>
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<td><strong>Spanish AB</strong></td>
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<td><strong>Spanish B</strong></td>
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<td>Higher Level</td>
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<td>Spanish 1000 + 1001</td>
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<td>Spanish 1000 + 1001</td>
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<tr>
<td><strong>Theatre Arts</strong></td>
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<td>Higher Level</td>
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<td>Theatre 1000 + 1001</td>
</tr>
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<td><strong>Visual Arts</strong></td>
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<td>Higher Level</td>
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<tr>
<td>Standard Level</td>
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<tr>
<td><strong>World Religion</strong></td>
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<tr>
<td>Standard Level</td>
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<td>Religious Studies 1000</td>
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</table>
GCE TRANSFER CREDITS

Course-based transfer credit will be granted to applicants completing Advanced Subsidiary (AS) and Advanced (A) Level subjects with the minimum grades outlined below.

Please note that this chart is not intended to outline the grade requirements for general admission to Memorial University. For information on admission requirements from the General Certificate of Education, please refer to United Kingdom (UK) Patterned Education.

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>Level</th>
<th>MINIMUM GRADE REQUIRED</th>
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</thead>
<tbody>
<tr>
<td>Accounting</td>
<td>A Level</td>
<td>D</td>
<td>Business 1101 + 2101</td>
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<tr>
<td></td>
<td>AS Level</td>
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<td>Business 2102</td>
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<tr>
<td>Applied Information &amp; Communication Technology</td>
<td>A Level</td>
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</tr>
<tr>
<td>Biology</td>
<td>A Level</td>
<td>D</td>
<td>Biology 1001 + 1002</td>
</tr>
<tr>
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<td>AS Level</td>
<td>D</td>
<td>Biology 1001</td>
</tr>
<tr>
<td>Business</td>
<td>A Level</td>
<td>B</td>
<td>Business 1000 + 1210 + 2210 + 3 unspecified credit hours (first year level)</td>
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<tr>
<td></td>
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<td>C</td>
<td>Business 1000 + 1210 + 2210</td>
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<tr>
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<td></td>
<td>D</td>
<td>Business 1000 + 3 unspecified credit hours (first year level)</td>
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<tr>
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<td>AS Level</td>
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<td>Business 1000 + 3 unspecified credit hours (first year level)</td>
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</tr>
<tr>
<td>Chemistry</td>
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<td>B</td>
<td>Chemistry 1050 + 1051 + 3 unspecified credit hours (first year level)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>Chemistry 1010 + 3 unspecified credit hours (first year level)</td>
</tr>
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<td>MINIMUM GRADE REQUIRED</td>
<td>MEMORIAL UNIVERSITY CREDIT RECOMMENDED</td>
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<tr>
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<tr>
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<td>Religious Studies - 6 unspecified credit hours (first year level)</td>
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<tr>
<td>Economics</td>
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<tr>
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<td>Economics 2010 + 2020 + 3030 + 3 unspecified credit hours (second year level)</td>
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<tr>
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<td>D</td>
<td>Economics 2010 + 2020</td>
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<tr>
<td>A Level</td>
<td>D</td>
<td>English 1080 + 1110</td>
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<tr>
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<tr>
<td>Literature in English</td>
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<tr>
<td>AS Level</td>
<td>D</td>
<td>English 1080 + 1110</td>
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<tr>
<td>Literature in English</td>
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<td>A Level</td>
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<td>English 1080 + 1110</td>
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</tr>
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<td>AS Level</td>
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<tr>
<td>D</td>
<td>D</td>
<td>French 1500 + 1501 + 2100 + 2101</td>
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<tr>
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<td>French 1500 + 1501</td>
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<td>Geography</td>
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<tr>
<td><strong>A Level</strong></td>
<td>D</td>
<td>History 2310 + 2510 + 2610 + 3 unspecified credit hours (second year level)</td>
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<tr>
<td><strong>AS Level</strong></td>
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<td>No Credit</td>
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<td><strong>Islamic Studies</strong></td>
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<tr>
<td><strong>AS Level</strong></td>
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<tr>
<td><strong>Advanced Mathematics (Tanzania)</strong></td>
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<tr>
<td><strong>A Level</strong></td>
<td>-</td>
<td>No Credit</td>
<td></td>
</tr>
<tr>
<td><strong>Further Mathematics</strong></td>
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<tr>
<td><strong>A Level</strong></td>
<td>D</td>
<td>Mathematics 1000 + 1001</td>
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</tr>
<tr>
<td><strong>AS Level</strong></td>
<td>D</td>
<td>No Credit - permission may be granted to write the CPT for credit for MATH 1000</td>
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<tr>
<td><strong>Mathematics</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td><strong>A Level</strong></td>
<td>D</td>
<td>Mathematics 1000 + 1001</td>
<td></td>
</tr>
<tr>
<td><strong>AS Level</strong></td>
<td>-</td>
<td>No Credit</td>
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</tr>
<tr>
<td><strong>Pure Mathematics</strong></td>
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<td><strong>A Level</strong></td>
<td>D</td>
<td>Mathematics 1000 + 1001</td>
<td></td>
</tr>
<tr>
<td><strong>AS Level</strong></td>
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<td>Mathematics 1000</td>
<td></td>
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<tr>
<td><strong>A Level</strong></td>
<td>D</td>
<td>Physics 1050 + 1051</td>
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</tr>
<tr>
<td><strong>AS Level</strong></td>
<td>D</td>
<td>Physics 1020 + 1021</td>
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<tr>
<td><strong>Psychology</strong></td>
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</tr>
<tr>
<td><strong>A Level</strong></td>
<td>D</td>
<td>Psychology 1000 + 1001</td>
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</tr>
<tr>
<td><strong>AS Level</strong></td>
<td>D</td>
<td>Psychology 1000</td>
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<tr>
<td><strong>Sociology</strong></td>
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</tr>
<tr>
<td><strong>A Level</strong></td>
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<td>Sociology 1000 + 2270 + 6 unspecified credit hours</td>
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<tr>
<td><strong>AS Level</strong></td>
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<td>Sociology 1000 + 2270</td>
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<tr>
<td><strong>Travel &amp; Tourism</strong></td>
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</tr>
<tr>
<td><strong>A Level</strong></td>
<td>-</td>
<td>No Credit</td>
<td></td>
</tr>
</tbody>
</table>
CASHIER’S OFFICE & STUDENT ACCOUNT ENQUIRIES

The Cashier’s Office is responsible for the assessment and collection of all student fees and charges, including fees for tuition, student services, student societies, and numerous miscellaneous administrative fees.

Administration of the financial aspect of student loans is also a duty of the Cashier’s Office.

For more information, please contact:

Memorial St. John's
Cashier's Office
709-864-8228
cashiers@mun.ca

Grenfell Campus
Bursar’s Office
709-637-6286
bursarsoffice@grenfell.mun.ca

Methods of Payment

- Online Banking
- (WUBS) GlobalPay for Students
- Credit Card
- Cash/Debit Card
- Cheques
- Tuition Voucher
- Payroll Deductions Graduate Students
- Student Aid
- Wire Transfers
SCHOLARSHIPS AND AWARDS

General entrance scholarships are awarded, on the basis of academic performance in high school, to residents of Newfoundland and Labrador, Canadian citizens and permanent residents graduating from secondary schools within Canada. Students’ eligibility will be based on their early admission average. Newfoundland and Labrador students are not required to submit transcripts or grade reports. The Admissions Office receives the necessary information from the Newfoundland and Labrador Department of Education. Students from other provinces in Canada will be assessed based on the transcripts they submit as part of their application for admission.

Newfoundland and Labrador high school students may also consider two renewable scholarships which are application-based. These are the Memorial University of Newfoundland Alumni Entrance Scholarship and Dr. Leslie Harris Memorial University Alumni Association Scholarship. Deadline for applying is March 1. Please note the following:

Scholarship offers will be made in late March and allocated in descending order of average (early admission average). Please note that while students with a 90 per cent early admission average will be considered for an early scholarship offer, we cannot predict what the cut-off average will be.

A minimum final admission average of 90 per cent will be required in order to maintain entrance scholarship eligibility. Final entrance scholarship eligibility, for those who receive an early offer, will be confirmed in August. Any additional funds that are available in August will be allocated to eligible students who have not already received a scholarship.
Distinct undergraduate entrance scholarships are available for international students. They are academic based, and the monetary value is between $4,400 and $12,000. Students do not need to apply for these scholarships; they are automatically considered when they apply to the university. To be considered for these scholarships, a student must be eligible to pay the full international undergraduate fee, must register for at least nine credit hours in each of two semesters in their first academic year at Memorial University, should normally have fewer than 31 credit hours of transfer credits and meet scholarship standing (comparable to that prescribed for Newfoundland and Labrador and Canadian applicants). Any of these scholarships which are renewable will have specific renewal criteria.

In addition, there are several entrance scholarships for students in special circumstances. These require a separate application. A list is available from the Scholarships and Awards Office at St. John’s campus or from the Student Services Office at Grenfell Campus or online at www.mun.ca/scholarships

Students can also visit www.mun.ca/scholarships for assistance with:

- continuing undergraduate scholarships and awards
- student aid for Canadian provinces other than Newfoundland and Labrador
- US student aid

**Contact Information**

Arts and Administration Building, A-1002
Hours: Monday - Friday, 9 a.m. – 5 p.m.
Telephone: 709 864 3956
Facsimile: 709 864 8615
Email: scholarships@mun.ca
Website: www.mun.ca/scholarships
GLOSSARY OF TERMS

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

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

Academic year: runs from September 1 to August 31.

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

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

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

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

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

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

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

Course number: courses are designated by four characters. The first character signifies the level of the course. Where all four characters are numeric, the last three are used by academic units to indicate various information such as course sequence and area of study. Where the last character is alphabetic, the letter: A or B identifies a linked course. No credits or points are given until the "B" part is completed. C identifies an English course that does not carry credit towards a degree, diploma or certificate. F identifies a foundation course that is intended to remedy a specific academic weakness and does not carry credit towards a degree, diploma or certificate. L identifies a period of university-level learning involving residency outside of Canada, normally through the Faculty of Humanities and Social Sciences. T identifies an undergraduate teaching internship offered by the Faculty of Education. W identifies a course in either a work term in a co-operative program or a special project in certain of the professional
schools and faculties and may or may not be assigned credit hours. X identifies a course which represents an entire semester's work and carries at least 15 credit hours.

Courses offered outside of the normal time frame: are those with different start and/or end dates than those of the semester or session.

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

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

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

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

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

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

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

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

GPA: is the abbreviation for grade point average.

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

In-class work: is any part of the evaluation in a course which is to be completed by the student in a supervised setting, at a time and location designated by the University.
**Inactive courses**: are courses which have not been offered in the previous three academic years and which are not scheduled to be offered in the current academic year.

**Last week of the lecturing period in a semester or session**: consists of the final five days of lectures, including statutory holidays on days when lectures would otherwise be held, in a semester or session.

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

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

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

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

**Online course**: is a for credit university course delivered entirely over the Internet. Examinations may be written at exam sites or online. Students access course materials and participate in course activities through Memorial University of Newfoundland's learning management system.

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

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

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

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

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

**Semester**: is a period of approximately fourteen consecutive weeks during which there are at least twelve weeks of lecture. Normally the fall semester commences in early September, the winter semester in early January, and the spring semester in early May.
**Session:** is a period of approximately seven consecutive weeks in the spring semester during which there are at least six weeks of lecture. The first half of spring semester is designated as Intersession; the second half of spring semester is designated as Summer session.

**Student Self-Service:** is a suite of e-business student services including registration and the provision of personalized student information.

**Take-home work:** is any part of the evaluation in a course which is to be completed by the student without supervision or a designated location, normally subject to a due date determined by the University.

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

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

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