FYI

FIRST YEAR INFORMATION
2019 - 2020

St. John’s Campus

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www.grenfell.mun.ca

March 2019

42nd Edition
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 that 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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The first day of class is WEDNESDAY, SEPT. 4.

1. Set up MUN Login
   - MUN Login provides access to MUN email, Self Service, Online Learning, my.mun.ca and MyMUNLife.  
   www.mun.ca/student-setup

2. Calculus Placement Test (CPT)
   - NL students of Mathematics 3208 register from March 1 – April 12 to write the CPT in June.  
   www.mun.ca/math/cpt

3. Register for recommended courses
   - Review the Steps to Register at www.mun.ca/regoff/registration/how.  
   - Login to my.mun.ca, select “Students” at the top.  
   - To access the registration system click on “Launch Memorial Self-Service”. Select “Student Main Menu”, then “Registration”.  
   - To see the earliest date and time you can register, select “View Registration Times”.  
   - Courses should be available to view late June/early July.  
   - Create a potential schedule and be ready to add courses at your registration time mid-July.  
   - Register for Science 1807 and 1808 if required as prerequisites for one of your courses.  
   - Register for Orientation 1000 when registering for courses.

4. Mathematics Placement Test (MPT)
   - Check www.mun.ca/math/mpt to determine whether or not you need to write the mathematics placement test.

5. Start Academic Integrity course
   - In the my.mun.ca “Students” tab, select Online Learning “Course Login”.  
   - Select the course INTG 1000 (Academic Integrity).  
   - Start INTG 1000 as early as July (after registering for courses).  
   - Note: You must pass INTG 1000 before you can register for next term.  
   - For more information go to www.mun.ca/undergrad/fyi/integrity.php.

6. Get Academic Advice:
   - Contact an academic advisor if you have questions about course selection.
**IMPORTANT DATES**

The Significant Dates for 2019-2020 listed below was approved on Friday, October 26, 2018. While every reasonable effort has been made to ensure the accuracy of this document, the completed University Diary published in the 2019-2020 Memorial University of Newfoundland Calendar will be considered final and accurate.

**Fall Semester 2019**

<table>
<thead>
<tr>
<th>Event</th>
<th>Dates</th>
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<tbody>
<tr>
<td>Lectures begin</td>
<td>Sept. 4, Wednesday</td>
</tr>
<tr>
<td>Thanksgiving holiday; Fall semester break</td>
<td>Oct. 14 – Oct. 15 Monday &amp; Tuesday</td>
</tr>
<tr>
<td>Lectures resume</td>
<td>Oct. 16, Wednesday</td>
</tr>
<tr>
<td>Lectures will follow Monday schedule</td>
<td>Oct. 17, Thursday</td>
</tr>
<tr>
<td>Lectures will follow Tuesday schedule</td>
<td>Nov. 11, Monday</td>
</tr>
<tr>
<td>Remembrance Day holiday, no lectures</td>
<td>Nov. 15, Friday</td>
</tr>
<tr>
<td>Lectures will follow Monday schedule</td>
<td>Nov. 29, Friday</td>
</tr>
<tr>
<td>Lectures end</td>
<td>Dec. 4, Wednesday</td>
</tr>
<tr>
<td>Examinations begin</td>
<td>Dec. 13, Friday</td>
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<tr>
<td>Examinations end</td>
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**Winter Semester 2020**

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<th>Event</th>
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<tr>
<td>Lectures begin</td>
<td>Jan. 6, Monday</td>
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<tr>
<td>Winter semester break</td>
<td>Feb. 17 – Feb. 21 Monday - Friday</td>
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<td>Lectures resume</td>
<td>Feb. 24, Monday</td>
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<td>Lectures end</td>
<td>April 3, Friday</td>
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<tr>
<td>Examinations begin</td>
<td>April 8, Wednesday</td>
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<tr>
<td>Good Friday; no examinations</td>
<td>April 10, Friday</td>
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<tr>
<td>Examinations end</td>
<td>April 18, Saturday</td>
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**Spring Semester 2020**

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<th>Event</th>
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<tr>
<td>Lectures begin for 14-week Spring semester and Intersession</td>
<td>May 11, Monday</td>
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<tr>
<td>Lectures end for Intersession</td>
<td>June 19, Friday</td>
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<td>Examinations begin for Intersession</td>
<td>June 22, Monday</td>
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<td>Spring semester break</td>
<td>June 22 – June 24 Monday - Wednesday</td>
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<tr>
<td>Examination end for Intersession</td>
<td>June 24, Wednesday</td>
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<tr>
<td>Lectures resume for Spring semester</td>
<td>June 25, Thursday</td>
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<tr>
<td>Lectures begin for Summer session</td>
<td>June 29, Monday</td>
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<tr>
<td>July 1 holiday; no lectures</td>
<td>July 1, Wednesday</td>
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<tr>
<td>Lectures end for Spring semester</td>
<td>Aug. 7, Friday</td>
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<tr>
<td>Lectures will follow Wednesday schedule</td>
<td>Aug. 8, Saturday</td>
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<tr>
<td>Lectures end for Summer session</td>
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<tr>
<td>Examinations begin for Spring semester and Summer session</td>
<td>Aug. 10, Monday</td>
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<tr>
<td>Examinations end for Summer session</td>
<td>Aug. 12, Wednesday</td>
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<tr>
<td>Examinations end for Spring semester</td>
<td>Aug. 15, Saturday.</td>
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**Application for Admission**

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.


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 at: www.mun.ca/undergrad/admissions/apply/.

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 at: www.mun.ca/undergrad/admissions/apply/intl-req/.

**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 outlined at: www.mun.ca/undergrad/admissions/apply/english-requirement.php

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
REGISTRATION INFORMATION

To understand your responsibilities in registering, as well as to prepare for and complete your registration, you should review the Registration procedures information.

Please note: It is very important to ensure you are registering for courses at the correct campus!

When is registration?

Registration for the Fall semester begins July 16, 2019.

You will be assigned a time to register. This assigned time is the earliest that you may select courses and add them to a class schedule. Memorial University uses a registration priority system to determine the date and time of undergraduate students' registration. This system is based on the program of study, the number of credit hours earned and the grade point average. For students new to post-secondary studies, early-offer scholarship recipients register first; all other new students register in accordance with a schedule based on the first three letters of their last name.

It is important to register on the assigned date and time, or as soon as possible thereafter, to allow access to the best selection of available courses.

How can I prepare for registration?

- Determine the courses needed for your intended program.
- Obtain academic advice if needed to assist in selecting courses.
- Set up MUN Login, @mun.ca, and Self Service.
- Confirm your registration time - go to Memorial Self-Service, access the Student Main Menu and select Registration. You will be able to view your registration time for the upcoming semester. This information is usually available about a month before registration begins.
- Create a sample schedule and timetable. Course offerings will be posted several weeks before registration begins. Although you will not be able to register for your courses until your registration time, you will be able to look up the courses and create a potential timetable. It is recommended that you create more than one sample timetable, in the event that one or more of your chosen courses is full when you attempt to register.

How will I know which courses to select?

If you had a high school advising session, you should register for the courses that were recommended during this time.

If you did not have an advising session review the suggested first-semester courses for your intended program found in the Degree Program sections of this FYI.

If you have additional questions about registration or course selection, you are encouraged to contact an academic advisor for assistance. Email advice@mun.ca to reach an advisor at the St. John’s campus, and info@grenfell.mun.ca to reach an advisor at Grenfell Campus. At the St. John’s campus appointments can also be made through Navigate Student, www.mun.ca/success/guide/download.php. At the Grenfell campus, appointments can be made through my.grenfell.mun.ca.

What should I include in my registration?

- Recommended courses for your intended program
- Orientation (Orientation 1000)
- Science 1807 and 1808, if required for your science laboratory course.

Notes:

1. You will automatically be registered for the Academic Integrity course.
2. Registration in the Academic Integrity course, Orientation 1000, Science 1807 and 1808 will not affect your ability to register for a full course load.

How do I register?

Registration for courses is done online through Memorial Self-Service.

From within Memorial Self Service select the Student Main Menu, choose the Registration menu. There are two methods for adding classes online:

1. Through the “Look up Course Offerings” menu
   If you select “Look up Course Offerings”, you may search the course offerings by subject. You may also use the Advanced Search option to look for courses using more specific information including: Subject, Course Number, Day and Times Offered, Campus and Attribute Type.
2. **Through the “Add/Drop Classes” menu**
   If you select “add/drop classes”, you will see the add/drop page. To use this method to add classes, you must know the **course reference numbers** (CRNs) of the sections you wish to add. (Note: If you do not know the CRNs, you can find this information by selecting the "Class Search" button). Once you enter the CRNs in the workbook, you must click on “Submit Changes” to process your registration requests.

   Once the system has processed your requests, it will show the course(s) that you have been successful in adding.

   Your tuition and related fees are listed for each semester once you have registered. To see how much is owed, visit the Financial Information menu in **Memorial Self-Service**. You can also use this menu to pay these fees.

**What would be the reason why I am not able to register for a course?**

If it was not possible to be added to a course, you will see an explanation. Common reasons include:

- **prerequisite or co-requisite** not met. Check the course description. You may need to register for Science 1807 and 1808 before being able to register for a science course with a laboratory; the MPT before registering for a mathematics course; or your mathematics course before your physics course.
- time conflict with another course
- course is reserved for students in a particular program
- course is at maximum capacity
- laboratory section required. If you are registering for a course that has a laboratory, check to see if the lecture and laboratory need to be selected separately.

Read these explanations carefully. You may be able to take further action as indicated in the pull-down list next to the explanation. For example, if it is possible to waitlist for a course, further action is required.

**What are wait lists?**

A wait list is sometimes created for courses that have registration reserved for a particular group of students for a limited period of time, and also if the course is currently full. The wait list allows students to reserve a place in line for a possible seat in the course once the reserves are lifted or if space becomes available. Memorial Self-Service will allow you to be registered and wait listed in a maximum of seven course sections. However, once you become registered in five courses, all the wait-listed courses currently held will become inactive. If a course is dropped, the wait lists will be reactivated. If you are on a wait list, you should check your course registrations periodically through Memorial Self-Service. It is possible to become registered in a course if space becomes available; however, you will not be notified until you are sent your enrolment verification in late August.

It is strongly recommended that you not wait list for courses when there are open sections of the same course available. If you become registered in one course section, other wait-listed sections of that course will be dropped. Wait lists will be deactivated approximately two weeks before the start of classes. If you are not able to register for a desired course and you are no longer on a wait list it is recommended that you speak with an advisor regarding available options.

**What do I do if I am having problems with registration?**

Students attending the St. John’s campus can contact the Office of the Registrar at (709) 864-4445 or email reghelp@mun.ca. Students attending Grenfell Campus can contact the Office of the Registrar at (709) 637-6298 or (toll-free) 1 (866) 381-7022 or email info@grenfell.mun.ca.

**Is it possible to change courses after registration?**

Once you have completed your initial registration you may make changes through the drop and add process. Most changes can be made through Memorial Self-Service. In those cases where registration is not available via Memorial Self-Service, it will be necessary for you to use a **course change form**. The course change form should be used only when changes cannot be made through Memorial Self-Service. Approval is required from the instructor and the Department Head of the subject of the course. The form is valid only if properly stamped or signed by the Registrar’s Office.

If you wish to change sections of a course (e.g. Mathematics 1000) which is a co-requisite for another course, (e.g. Physics 1050), add the new section before dropping the old; otherwise you will become deregistered in the course which requires the co-requisite, in this case Physics 1050. Take care when dropping a course because you may be unable to add the course to your schedule again later. If you make changes to your schedule, confirm the appropriate changes have been made by reviewing your course registration.

Please ensure you know the deadlines for dropping and/or adding courses each semester. Check the **Important Dates and Announcements** for each semester and the University Diary for the current academic year.
ACADEMIC INTEGRITY

What is INTG 1000 (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 here 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 (online.mun.ca) 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 Integrity 1000. You must successfully complete INTG 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 per cent) 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.

Contact Information

For more information please contact:

Erin Alcock and Wendy Rodgers
Co-ordinators, Integrity 1000
Research Liaison Librarians
Queen Elizabeth II Library
academicintegrity@mun.ca
(709) 864-7427
Memorial University's Summer Bridging Program is offered at Grenfell Campus in August each summer. Any Newfoundland and Labrador student who misses the MUN admission requirements by five per cent or less - that is, a final admission average between 65 and 69.9 per cent - and successfully passes the courses required for admission, is eligible to apply to the Summer Bridging Program. If you have any questions pertaining to your final admissions average, contact the Office of the Registrar at (709) 637-6298. This program is non-credit.

*This year the Summer Bridging Program will be held August 12 - 23, 2019.*

*The Application deadline is August 6, 2019.*

**Requirements**
Students who successfully complete the program will be admitted to Memorial University in September at the campus of their choice. When compared to a sample of students who entered Memorial with a 70 per cent, the Summer Bridging students compare very favourably on a number of measures of academic performance including: number of courses taken, number of courses passed, grade average and academic standing at the end of the semester. Furthermore, these students reported that they enjoyed the program and found it very useful.

**Admission**
Students should apply for admission to the program as soon as they learn that they will not meet (or are not likely to meet) Memorial's admission requirements. The deadline to apply is August 6, 2019.

**Cost**
The fee for the program is $600 and is tax deductible. The residence fee is $260.12. Fees are payable on August 12, 2019; payment may be made by cheque (payable to Grenfell Campus, Memorial University of Newfoundland), Visa, Master Card, or Interact.
DEGREE PROGRAMS
ST. JOHN’S CAMPUS
### DEGREE PROGRAMS: APPLICATION AND ADMISSION INFORMATION

The chart below is for general information purposes only. Additional program information is offered in this FYI as indicated. Admission to all degrees is subject to general and program application and admission regulations. Consult the **University Calendar** to confirm application deadline(s), semester and campus availability, and general and academic unit regulations including application and admission requirements.

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Arts</th>
<th>Arts and Science</th>
<th>Business Administration</th>
<th>Business Administration and Music</th>
<th>Commerce (Co-operative)</th>
<th>Education</th>
<th>Engineering</th>
<th>HKR, Kinesiology, Physical Education, Recreation</th>
<th>International Arts</th>
<th>International Business Administration</th>
<th>Music</th>
<th>Nursing</th>
<th>Pharmacy</th>
<th>Science</th>
<th>Social Work</th>
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<tbody>
<tr>
<td>Direct entry available to applicants meeting minimum general admission requirements</td>
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<td>Program entry available in any semester</td>
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<td>Program entrance determined by faculty or school</td>
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<tr>
<td>May complete the first year or admission requirements at either campus. Restrictions on campus transfer may apply</td>
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<td>Students must complete courses at university before applying to these programs</td>
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<tr>
<td>See these pages for additional program information</td>
<td>37</td>
<td>40</td>
<td>14</td>
<td>17</td>
<td>15</td>
<td>19</td>
<td>28</td>
<td>32</td>
<td>39</td>
<td>18</td>
<td>49</td>
<td>53</td>
<td>56</td>
<td>57</td>
<td>74</td>
</tr>
</tbody>
</table>

* Admission into the Faculty of Science is available in any semester. Admission into a science major program is determined by the department.

** High-school students may apply directly into the Bachelor of Commerce Co-operative, Term A/B on their General Application for Admission to Memorial.

*** A Bachelor of Business Administration degree is offered at both the St. John’s and Grenfell Campuses, however the two degrees have different requirements and regulations. Students are advised to confirm the BBA degree regulations for their intended campus.
The Faculty of Business Administration is known for innovative, high-quality academic programs, basic and applied research, co-operative education and responsive community outreach activities.

The Faculty prepares students to succeed in a competitive work-place. Each business program is designed to give students the skills and experience needed to advance their careers. The Faculty’s close-knit community provides students with many opportunities to get involved and network with fellow classmates, alumni and the business community. Its programs are internationally accredited by the Association to Advance Collegiate Schools of Business (AACSB), a mark of exceptional quality in management education and the highest distinction a business school can achieve.

Additional information regarding the Faculty of Business Administration is available at www.business.mun.ca.

Degree Programs

- Bachelor of Business Administration (BBA)
- Bachelor of Commerce (Co-operative) (B.Comm. Co-op)
- International Bachelor of Business Administration (iBBA)
- Joint Degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts
- Joint Degrees of Bachelor of Business Administration and Bachelor of Music

Business Minor Programs

Students completing the BBA or B.Comm. (Co-op.) program may complete a minor program from the Faculty of Humanities and Social Sciences, Faculty of Science, School of Music or Grenfell Campus (where minor programs are available).

Students in the iBBA program may complete a minor program from the Faculty of Humanities and Social Sciences.

Students completing a degree other than business may elect to complete one of the following minor programs offered by the Faculty of Business Administration:

- business administration
- international business

BACHELOR OF BUSINESS ADMINISTRATION (BBA)

The Bachelor of Business Administration (BBA) is a flexible, 120-credit hour program. The BBA can be completed at your own pace either on campus, online or in combination as a full-time or part-time student.

The program features a blend of business and non-business courses, with an option to complete a minor in another area. Students may complete a minor program from the Faculty of Humanities and Social Sciences, Faculty of Science, School of Music or Grenfell Campus (where minor programs are available).

To be admitted to the BBA program, students should select this option on the Undergraduate Application for Admission or request to self-declare this option by sending an email to reghelp@mun.ca.

Students will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>Sample Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>Mathematics 1090 or 1000*</td>
</tr>
<tr>
<td>Economics 1010**</td>
</tr>
<tr>
<td>English 1090 (or 1020)</td>
</tr>
<tr>
<td>Business 1000***</td>
</tr>
<tr>
<td>non-business elective</td>
</tr>
</tbody>
</table>

* Students who complete Mathematics 1000 in the Fall semester will complete an additional non-business elective in the Winter semester.

**These courses may be taken in any order in either semester.

***Business 1000 may be taken in either semester.
BACHELOR OF COMMERCE (CO-OPERATIVE) (B.COMM. (CO-OP))

The Bachelor of Commerce (Co-operative) (B.Comm. (Co-op.) is a five-year, full-time, structured program that includes three four-month paid work terms.

Prospective students may apply for admission to the first year of the program (known as Terms A/B) directly from high school by indicating this on their application for admission to Memorial. Terms A/B begins in the Fall semester. Direct entry from high school is subject to the applicant's final acceptance to the University and admissibility into Mathematics 1000, 1090 or 109A/B.

The B.Comm. (Co-op.) program is designed to prepare students for a rewarding career in business. The co-operative component of the program alternates classroom study with periods of full-time employment. The three work terms, which may be in industry, government or other organizations, give students the opportunity to apply classroom learning and develop practical skills for today's business environment.

In the first year of the B.Comm. (Co-op.) program, Terms A/B, students must complete 30 credit hours as outlined in the sample program.

Students must achieve a minimum overall average of 65 per cent on these 30 credit hours to be promoted to Term 1.

In Terms 1 through 7, students must complete 57 credit hours of required courses and 48 credit hours of electives, of which some must be business courses and others must be non-business courses.

Students may complete a minor from the Faculty of Humanities and Social Sciences, Faculty of Science, School of Music or Grenfell Campus (where minor programs are available) by using the non-business electives required for graduation.

Students will normally take the following courses in first year:

Sample Program

<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 non-business elective</td>
</tr>
<tr>
<td>Economics 1010**</td>
<td>Economics 1020**</td>
</tr>
<tr>
<td>English 1090 (or 1020)</td>
<td>English 1110 (or 1021)</td>
</tr>
<tr>
<td>Business 1000***</td>
<td>non-business elective</td>
</tr>
<tr>
<td>non-business elective</td>
<td>non-business elective</td>
</tr>
</tbody>
</table>

* Students who complete Mathematics 1000 in the Fall semester will complete an additional non-business elective in the Winter semester.

**These courses may be taken in any order in either semester.

***Business 1000 may be taken in either semester.

Note: Students who follow the above sample program, and who were not admitted directly into the B.Comm. (Co-op.) program from high school, are eligible to apply for admission into Term 1 of the program. Applications must be submitted to the Office of the Registrar by March 1. Please note that while a 65 per cent average enables eligibility to the program, it does not guarantee admission. Students who have AP or IB transfer credits should speak with an advisor in the Faculty of Business Administration when planning their program.
JOINT DEGREES OF BACHELOR OF COMMERCE (CO-OPERATIVE) AND BACHELOR OF ARTS

The joint degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts can be completed in five years, provided appropriate planning is undertaken. Some of the normal degree requirements have been relaxed by each faculty for students who wish to complete both programs in a minimum of 150 credit hours and graduate with both degrees at the same convocation.

Admission and program planning

In the first year, Terms A/B students must successfully complete 30 credits as outlined in the sample program.

A student must achieve an overall average of 65 per cent on these 30 credit hours 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 elective courses are selected with specific requirements for the BA in mind. Language Study (LS) courses and courses in the intended major should round out the first-year program.

The schedule of courses and work terms required for the BComm. (Co-op.) are set out in the University Calendar.

For the BA, students are recommended to discuss their program before the end of their first year with an advisor in the department of their major to make sure that required courses will be available within the constraints of course scheduling and prerequisites.

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

Students will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>Sample Program</th>
<th>Term B/ Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Term A/Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1090</td>
<td>Mathematics 1000* or a BA core requirement course</td>
</tr>
<tr>
<td>(or 1000)*</td>
<td></td>
</tr>
<tr>
<td>Economics 1010**</td>
<td>Economics 1020**</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>
<tr>
<td>English 1090 (or 1020)</td>
<td>English 1110 (or 1021)</td>
</tr>
</tbody>
</table>

*Mathematics 1000 is required for the BComm (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 course toward the BA core requirements in the Winter semester.

**These courses may be taken in any order in either semester.

***Business 1000 may be taken in either semester.

Notes:

1. Students who follow the above sample program, and who were not admitted directly into the B.Comm. (Co-op.) program from high school, are eligible to apply for admission into Term 1 of the program. Applications must be submitted to the Office of the Registrar by March 1. Please note that while a 65 per cent average enables eligibility to the program, it does not guarantee admission.

2. 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.
JOINT DEGREES OF BACHELOR OF BUSINESS ADMINISTRATION AND BACHELOR OF MUSIC

The Joint Degrees of Bachelor of Music (B.Mus.) and Bachelor of Business Administration (BBA), is a five-year joint degree program, in which students complete a 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 degrees 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 (B.Mus. and Joint B.Mus. with BBA)

Students are normally admitted to the B.Mus. degree program at the beginning of the Fall semester. Successful applicants may enter the program immediately in their first semester. Students must meet the admission requirements to the Bachelor of Music degree program and must be admitted to that program. All applications must be submitted to the Office of the Registrar. The deadline for applications is Jan. 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 online at www.mun.ca/music/programs/undergraduate/. Applicants for the Joint Degrees B.Mus and BBA must submit a 750-word letter of motivation highlighting the applicant’s relevant past experiences, career plans and motivation for pursuing the joint degrees program.

Students will normally take the following courses in their first year:

<table>
<thead>
<tr>
<th>Sample Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Term A/Fall Semester</strong></td>
</tr>
<tr>
<td><strong>Business 1000</strong></td>
</tr>
<tr>
<td><strong>Mathematics 1090 or Mathematics 1000</strong></td>
</tr>
<tr>
<td>(if not completed in Term 1)</td>
</tr>
<tr>
<td><strong>Music 140A</strong></td>
</tr>
<tr>
<td><strong>Music 1005</strong></td>
</tr>
<tr>
<td><strong>Music 1107</strong></td>
</tr>
<tr>
<td><strong>Music 1117</strong></td>
</tr>
<tr>
<td><strong>Music 1700</strong></td>
</tr>
<tr>
<td>one credit hour chosen to meet Ensemble credit requirements</td>
</tr>
</tbody>
</table>

* 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.

Note: 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.
INTERNATIONAL BACHELOR OF BUSINESS ADMINISTRATION

The International Bachelor of Business Administration (iBBA) is a 120-credit hour program that combines business with cross-cultural study in a second global region.

The iBBA is comprised of four key components:

- core training in fundamental business skills
- international business courses in a wide variety of international business topics
- non-business cross-cultural skill development that provides both a global and regional perspective. This normally includes coursework in a foreign language study in areas such as international relations, economics, history, sociology, geography, and other areas that provide cross-cultural perspectives.
- a mandatory cross cultural study experience, spent in the student’s chosen region of interest. A range of study locations are available in Europe, Asia-Pacific and Latin America.

Admission, promotion and continuance requirements

Admission to the iBBA is competitive and selective. Students who wish to proceed to the iBBA degree should enroll in the pre-iBBA program. Students must achieve an overall average of 65 percent on the 30 credit hours of pre-iBBA courses to be promoted to the iBBA. Please note that while a 65 percent average enables eligibility to the program, it does not guarantee admission.

The pre-iBBA program

The 30 credit hours to be completed in the pre-iBBA program are as follows:

- Mathematics 1000
- Economics 1010 and 1020
- English 1090 and 1110 (or 1020 and 1021)
- Business 1000
- Political Science 2200
- Nine credit hours in non-business elective courses.

Students in the iBBA program may complete a minor program from the Faculty of Humanities and Social Sciences. Careful program planning is strongly advised throughout the students’ degree program.

Students will normally take the following courses in first year:

<table>
<thead>
<tr>
<th>Sample Program</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>Winter Semester</td>
</tr>
<tr>
<td>Mathematics 1090 or 1000*</td>
<td>Mathematics 1000* or non-business elective</td>
</tr>
<tr>
<td>Economics 1010**</td>
<td>Economics 1020**</td>
</tr>
<tr>
<td>English 1090 (or 1020)</td>
<td>English 1110 (or 1021)</td>
</tr>
<tr>
<td>non-business elective***</td>
<td>non-business elective***</td>
</tr>
<tr>
<td>Political Science 2200</td>
<td>Business 1000</td>
</tr>
</tbody>
</table>

* Students who complete Mathematics 1000 in the Fall semester will complete an additional non-business elective in the Winter semester.

**These courses may be taken in any order in either semester.

***For the iBBA degree, students are expected to gain knowledge of, and to experience, the cultural and business environment in a global region other than their home, or primary region. In order to achieve this bi-cultural knowledge and experience, students must nominate a second global region on which to focus in their program. The secondary region selected will affect the choice of elective courses as well as the choice of location and content of the cross-cultural study experience undertaken later in the program.

Contact Information

For additional information please contact:
busihelp@mun.ca
www.business.mun.ca
The Faculty of Education is responsible for the professional preparation of teachers and is committed to improving the human condition through education. The Faculty is dedicated to leadership and exemplary practice in teaching and learning, research and scholarship, and public engagement in local and global communities.

The application deadline for the programs listed below is Jan. 15.

At least three positions per year are available for applicants of Aboriginal ancestry who have met the admission requirements and provide the necessary documentation.

**Degree 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 Certificate in STEM Education
- Bachelor of Education (Intermediate/Secondary)
- Bachelor of Education (Intermediate/Secondary) Conjoint with the Diploma in Technology Education
- Bachelor of Music Education
- Bachelor of Special Education

**Contact information**

For additional information please contact: Office of Academic Programs, Admissions edadmiss@mun.ca

**BACHELOR OF EDUCATION (PRIMARY/ELEMENTARY) AS A FIRST DEGREE**

The Bachelor of Education (Primary/Elementary) degree program is designed to prepare teachers for kindergarten through grade six.

The Bachelor of Education (Primary/Elementary) as a First Degree is a full-time, 150 credit hour program which includes a 15 credit hour teaching internship. This program begins in the Fall semester.

**Admission Requirements**

To be considered for admission students must have successfully completed 60 credit hours with either a cumulative average of at least 65 per cent or an average of at least 65 per cent on the last attempted 30 credit hours.

**The 60 credit hours must include:**

- 12 credit hours in English, including at least six credit hours at the 2000 level or above. (ESL 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 of which 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 chosen in any combination from anthropology, archaeology, economics, folklore, geography, history, linguistics, political science, religious studies, 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, as listed in the University Calendar, as part of a focus area
- additional credit hours from subject areas other than education.

www.mun.ca/educ
Consideration will be given to the courses for which students are registered at the time of application. In assessing applications for the program, consideration will be given to the student’s overall academic performance, personal statement and references as outlined on the application to the faculty. **Note:** Applicants who will have completed all requirements for admission by the end of the Spring semester of the year that admission is being sought will only be considered as time and resources permit.

**Focus areas**

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

<table>
<thead>
<tr>
<th>English</th>
<th>mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>folklore</td>
<td>music</td>
</tr>
<tr>
<td><em>French</em></td>
<td>physical education</td>
</tr>
<tr>
<td>geography</td>
<td>religious studies</td>
</tr>
<tr>
<td>history</td>
<td>science</td>
</tr>
<tr>
<td>linguistics</td>
<td>theatre arts</td>
</tr>
<tr>
<td></td>
<td>visual arts</td>
</tr>
</tbody>
</table>

*A French as a Second Language option is available in the Bachelor of Education (Primary/Elementary) as a Second Degree only.*

**Students will normally take the following courses in their first year:**

<table>
<thead>
<tr>
<th>Sample Program</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>Mathematics 1050</td>
</tr>
<tr>
<td>English 1090</td>
</tr>
<tr>
<td>a laboratory science course</td>
</tr>
<tr>
<td>focus area course</td>
</tr>
<tr>
<td>a course in either French or psychology</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 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 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 Office of Academic Programs.

Admission requirements

To be considered for admission students must have been awarded a bachelor’s degree or been approved (prior to program start-up) for the award of a bachelor’s degree from a university recognized by Memorial University; achieved a cumulative average of at least 65 per cent or an average of at least 65 per cent on the last attempted 30 credit hours; and completed a minimum of:

- six credit hours in English (ESL 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 of which 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, physics, and ocean sciences.
- six credit hours in any combination to be chosen from: anthropology, archaeology, economics, folklore, geography, history, linguistics, political science, religious studies and 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
- completed all courses required for a focus area as listed in the University Calendar or the completion of a major or minor within the initial bachelor’s degree program in a subject area classified as a focus area.

An applicant with French as a focus area must apply under the French as a Second Language Option. This option begins with a three-week institute in August.

An applicant to the French as a Second Language option must have completed the DELF B2 with a grade of at least 70 per cent and no less than 60 per cent in any one skill area of the exam, and completed at least eight weeks at an approved Francophone institution or have acquired equivalent work experience in a Francophone environment. An applicant must also have completed at least 36 credit hours in French with an average of at least 65 per cent in the 36 credit hours. For further information on this option please contact the Office of Academic Programs.

In assessing applications for the Bachelor of Education (Primary/Elementary) as a Second Degree program, consideration will be given to the student’s overall academic performance, personal statement and references as outlined on the application to the faculty.
BACHELOR OF EDUCATION
(PRIMARY/ELEMENTARY) AS A SECOND DEGREE CONJOINT WITH THE CERTIFICATE IN STEM EDUCATION

The Bachelor of Education (Primary/Elementary) as a Second Degree Conjoint with Certificate in STEM Education is a 85 credit hour program with a focus on STEM Education. It is intended for candidates who have already completed an appropriate bachelor’s degree.

This full-time program, extends over four phases (two years), includes ongoing and extensive school and community field experiences and commences in the Fall semester of each year.

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

Admission Requirements

To be considered for admission to the Bachelor of Education (Primary/Elementary) as a Second Degree Conjoint with Certificate in STEM Education, an applicant must have been awarded a bachelor’s degree, or approved (prior to program startup) for the award of a bachelor’s degree from a university recognized by Memorial University; achieved a cumulative average of at least 65 per cent or an average of at least 65 per cent on the last attempted 30 credit hours; and completed a minimum of:

- six credit hours in English – ESL 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 of which 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, physics, and ocean sciences.
- six credit hours in any combination to be chosen from: anthropology, archaeology, economics, folklore, geography, history, linguistics, political science, religious studies, 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
- completed all courses required for a focus area as listed in the University Calendar or the completion of 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 Office of Academic Programs.

In assessing applications to the Bachelor of Education (Primary/Elementary) as a Second Degree Conjoint with a Certificate in STEM Education program, consideration will be given to the students overall academic performance; personal statement and references as outlined in application to the faculty; and information from an admission interview (selected candidates).
Focus Areas for Bachelor of Education (Primary/Elementary)

English (24 credit hours)
- six credit hours at the 1000-level
- English 2390 or 3395
- three credit hours chosen from English 2000, 2001, 2005-2007, 3200, 3201, 3205
- three credit hours chosen from English 2002-2004, 2010 or the former 2020, 2350, 2351
- six credit hours chosen from English 2146, 2150, 2151, 2155, 2156, 2160, 3145, 3147-3149, 3152, 3155-3158
- three additional credit hours in English at the 2000 level or above

Folklore (24 credit hours)
- Folklore 1000
- Folklore 2100, 2300, 2401, 2500
- nine credit hours in Folklore at the 3000 or 4000 level

French (36 credit hours)
- the equivalent of a major in French with a maximum of six credit hours at the 1000 level
- an average of at least 65 per cent in the 36 credit hours
- at least eight weeks at an approved Francophone institution in a French-speaking area or have acquired equivalent work experience in a Francophone environment
- 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 per cent, with no less than 60 per cent in any one skill area of the exam.
- This focus area is not typically available in the Bachelor of Education (Primary/Elementary) as a Second Degree Conjoint with Certificate in STEM Education.

Geography (18 credit hours)
- Geography 1050, 2001, 2102, 2195, 2302, and 2425

History (18 credit hours)
- three credit hours in History at the 1000 level
- nine credit hours in History at the 2000 level
- six credit hours in Newfoundland and Labrador History at the 3000 level

Linguistics (18 credit hours)
- Linguistics 1100 or 1155 (recommended)
- Linguistics 1103
- Linguistics 1104
- Linguistics 2210
- six credit hours chosen from Linguistics 3000, 3100, 3104, 3155, 3201, 3210, 3500, 3850
Mathematics (18 credit hours)
- no more than six credit hours in Mathematics at the 1000 level and at least three credit hours in Mathematics at the 3000 level

Music (18 credit hours)
- Music 1106 or 1120
- three credit hours chosen from Music 2021, 2022, 2023, 2611, 2612, 2613, 2614, 2619 (admission to 2612, 2613 and 2619 is by audition only)
- six credit hours chosen from Music 3014, 3015, 3016, 3017, 3018, 3019, 4040
- three additional credit hours from the courses in second and forth clauses above

Physical Education (18 credit hours)
- Human Kinetics and Recreation 1000, 2210, 2300
- nine credit hours chosen from Human Kinetics and Recreation 2002, 2310 or 2311, 2320, 2600, 2601, 3330, 3340, 3400, 3490

Religious Studies (18 credit hours)
- Religious Studies 1000
- three credit hours chosen from Religious Studies 2013, the former 2130, the former 2140, 2330, 2340
- three credit hours chosen from Religious Studies 2400, 2410, 2420, 2425, 2430
- three credit hours chosen from Religious Studies 2350, 2610, 2810, 2811, 2812, the former 2820, 2830
- six credit hours in Religious Studies at the 3000 level or above

Science (18 credit hours)
- at least six credit hours in each of two subject areas selected from biochemistry, biology, chemistry, Earth sciences, environmental science, ocean sciences, or physics
- At least six credit hours used to meet this requirement must have a laboratory component. Chemistry 1900 may be used to satisfy three credit hours of the laboratory requirement.

Theatre Arts (18 credit hours)
- For information on the Theatre Arts Focus Area contact the Office of Academic Programs, Faculty of Education.

Visual Arts (18 credit hours)
- Courses in Art History may be used to satisfy this requirement in whole or in part. For information on the Visual Arts Focus Area contact the Office of Academic Programs, Faculty of Education.
BACHELOR OF MUSIC CONJOINT WITH BACHELOR OF MUSIC EDUCATION

The Bachelor of Music conjoint with the Bachelor of Music Education is currently under review and is not available for admission at this time. For further information please contact the Office of Academic Programs.

The Bachelor of Music conjoint with Bachelor of Music Education is a five-year conjoint degree program, consisting of a Bachelor of Music and a Bachelor of Music Education, offered in conjunction with the School of Music. The program is designed for the preparation of school music teachers and other professional positions related to music education.

BACHELOR OF MUSIC EDUCATION AS A SECOND DEGREE

The Bachelor of Music Education as a Second Degree is a 45 credit hour degree program for students who have already been awarded a Bachelor of Music degree. The program is designed to prepare music teachers in all facets of school music education: foundations of music education; primary/elementary, intermediate/secondary classroom music; and choral and instrumental music education. The program consists of 30 credit hours of course work in music education and general foundational education and a 15 credit hour teaching internship.

Admission requirements

To be considered for admission, students must have been awarded a Bachelor of Music degree (or equivalent) from a recognized post-secondary institution.

Applications for admission are typically considered once a year, for the Fall semester. Deadline for submission of applications is Jan. 15 in any year. Consideration will be given to the Winter semester courses for which students are registered at the time of application.
BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY)

This is a second degree program designed to prepare teachers of Grades 7 - 12. Following completion of an appropriate first degree, students attend full-time for three consecutive semesters.

Applications for admission are considered once a year and for the Fall semester only. The deadline for submission of faculty applications to the Office of the Registrar is Jan. 15 in any year.

Admission requirements

To be considered for admission, individuals must have:

- been awarded a bachelor’s degree from Memorial University or a university recognized by Memorial University
- completed 36 credit hours in a subject listed under Academic Disciplines, (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 subject listed under Academic Disciplines
- achieved an overall average of at least 65 per cent in each of the sets of courses chosen above.

Consideration will be given to the courses for which students are registered at the time of application. In assessing applications to the Bachelor of Education (Intermediate/Secondary) program, consideration will be given to the student’s average in each of the two academic disciplines, overall academic performance, personal statement and references as outlined on the application to the faculty.

Candidates who are registered in the final semester of their first bachelor’s degree program during the Winter semester must have satisfied the academic requirements set out above, upon completion of their first degree program. Applicants completing degrees from a university other than Memorial University must submit an official transcript denoting the award of their first degree. These applicants must supply transcripts indicating Winter semester grades no later than June 15.

Note: Applicants who will have completed all requirements for admission by the end of the Spring semester of the year that admission is being sought will be considered as time and resources permit.

Academic disciplines

Academic disciplines are listed below. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed academic disciplines will be acceptable.

- biochemistry
- biology
- business 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*****
- theatre arts******
- visual arts******

* These subjects are only available as a second discipline. Business studies requires at least a minor in business administration.

** An applicant who uses French as an academic discipline must have written the DELF B2 and must have received a grade of at least 70 per cent with no less than 60 per cent in any one skill area of the exam. An applicant must also have completed at least eight weeks (first academic discipline) or at least four weeks (second academic discipline) at an approved Francophone institution in a French speaking area or have acquired equivalent work experience in a Francophone environment.

*** An applicant who uses General Science as an Academic Discipline may use courses chosen from the separate science disciplines in any combination from biochemistry, biology, chemistry, Earth sciences, environmental science, ocean sciences, physics but must complete a minimum of 12 credit hours in each separate science discipline used.

**** In order to be considered for admission within this Academic Discipline, an applicant must have completed courses in the following areas: Human Anatomy, Human Physiology, Motor Learning, Biomechanics, Primary/Elementary Physical Education Curriculum and Teaching, Issues and Trends in Physical Education and a minimum of 15 credit hours in Physical Education activities.

***** These disciplines are only offered every two years. Religious Studies is only available as a second discipline. For more information, please contact the Office of Academic Programs.
For further information on the complement of courses suitable for these disciplines, please see the University Calendar or the Faculty of Education website: www.mun.ca/educ.

Sample program

For sample programs of first-year courses, please see the appropriate section for the bachelor’s degree being completed in the first instance.

BACHELOR OF EDUCATION (INTERMEDIATE/SECONDARY) CONJOINT WITH THE DIPLOMA IN TECHNOLOGY EDUCATION

This is a second degree program designed to prepare both intermediate/secondary and 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. All students attend full time for four consecutive semesters.

Admission requirements:

To be considered for admission, individuals must have:

- been awarded a bachelor’s degree from Memorial University or a university recognized by Memorial University
- completed 36 credit hours in a subject listed under academic disciplines
- achieved an overall average of at least 65 per cent in the set of courses chosen to meet the requirement above.

Applications for admission are considered once a year and for the Spring semester only. The deadline for submission of faculty applications to the Office of the Registrar is Jan. 15 in any year. Consideration will be given to the courses for which students are registered at the time of application. In assessing applications, consideration will be given to the student’s average in the academic discipline, overall academic performance, personal statement and references as outlined on the application to the faculty.

Sample program

For sample programs of first-year courses, please see the appropriate section for the bachelor’s degree being completed in the first instance.

Academic disciplines

Academic disciplines are deemed to be the disciplines on the following list. Courses from other disciplines deemed by the Admissions Committee to be equivalent to courses in any of the listed academic disciplines will be acceptable.

- 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****
- visual arts****

* An applicant who uses French as an academic discipline must have written the DÉLF B2 and must have received a grade of at least 70 per cent with no less than 60 per cent in any one skill area of the exam. An applicant must also have completed at least eight weeks at an approved Francophone institution in a French speaking area or have acquired equivalent work experience in a Francophone environment.

**An applicant who uses General Science as an Academic Discipline may use courses chosen from the separate science disciplines in any combination from biochemistry, biology, chemistry, Earth sciences, environmental science, ocean sciences, physics but must complete a minimum of 12 credit hours in each separate science discipline used.

***In order to be considered for admission within this Academic Discipline, an applicant must have completed courses in the following areas: Human Anatomy, Human Physiology, Motor Learning, Biomechanics, Primary/Elementary Physical Education Curriculum and Teaching, Issues and Trends in Physical Education and a minimum of 15 credit hours in Physical Education activities.

****These disciplines are only offered every two years. For more information, please contact the Office of Academic Programs.

For further information on the complement of courses suitable for these disciplines, please see the University Calendar or the Faculty of Education website: www.mun.ca/educ.
ENGLISH

BACHELOR OF ENGINEERING

The Bachelor of Engineering degree at Memorial University is offered as a co-operative program in which regular full-time academic study is supplemented by four-month periods of full-time work in positions related to the student’s future career. The normal mode of entry into the program is direct entry from high school into Engineering One. The program will normally be completed in eight academic semesters over five years.

The following majors are offered in academic terms three through eight after completion of the generic Engineering One curriculum:

- 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.

The Department of Ocean and Naval Architectural Engineering accepts applications for direct admission from high school and Engineering One. For more information, please contact the Department Head at ONAEadmissions@mun.ca.

Graduates of Memorial University’s engineering programs have been enjoying the benefits of full accreditation with the Canadian Engineering Accreditation Board (CEAB) since 1975.

Admission requirements to the faculty program

Entry to Engineering One and to the majors offered by the faculty is competitive for a limited number of placements. Meeting the minimum admission requirements does not guarantee acceptance to the engineering program. The final decision on admission or readmission to Engineering One or any engineering major rests with the Admissions Committee of the faculty. Admission or readmission to the university does not necessarily constitute admission or readmission to Engineering One or to any major. The primary criterion used in reaching decisions on applications for admission or readmission is the Admission Committee’s judgment of the likelihood of an applicant succeeding in the program.

Direct admission from high school

In addition to meeting the general admission requirements for Memorial, performance in advanced mathematics, chemistry, physics and English is of particular interest, and grades above 80 per cent are normally required for consideration. Students must meet the English Language Proficiency Requirements for faculty admission as outlined in the University Calendar.

High school students must meet the minimum requirements, or equivalents, outlined below in order to be considered eligible for admission to Engineering One.

EITHER students must have earned credit for Mathematics 1000 through one of the following:

- International Baccalaureate (Higher Level with a score of four or higher)
- Advanced Placement (Calculus AB or BC with a standing of three or higher)
- successful completion of Mathematics 3208, and Memorial’s Calculus Placement Test (CPT)

OR are able to register for Mathematics 1000 as demonstrated through one of the following:

- International Baccalaureate (Standard Level) with a score of four or higher
- Advanced Placement (Calculus AB or BC) with a score less than three but obtain at least 75 per cent on the Mathematics Placement Test (MPT)
- Mathematics 3200 with 75 per cent or higher
- Mathematics 3200 with a grade between 50 – 74 per cent and obtain at least 75 on the Mathematics Placement Test (MPT).

Physics 3204 and Chemistry 3202 or equivalent, from high school are highly recommended.

Those students who are not eligible for direct entry may complete some of the Engineering One courses (Mathematics 1000, 1001, 2050; Chemistry 1050; Physics 1050, 1051; and/or English 1090 or 1000) and apply to Engineering One for the Winter and/or Spring semester. These students must meet the admission criteria outlined on the next page for Memorial University of Newfoundland applicants.
Students completing the College of the North Atlantic Comprehensive Arts and Science (CAS) College Transition program

Students who have successfully completed the College of the North Atlantic Transition program will be considered equivalent to students entering directly from high school and will follow the same guidelines.

Memorial University of Newfoundland applicants

To be eligible for consideration for admission to the Bachelor of Engineering program, a student who is attending or has previously attended Memorial University must have a cumulative average of at least 70 per cent, and obtained a grade of at least 70 per cent in two or more of the following courses: Mathematics 1000, Mathematics 1001, Mathematics 2050, Physics 1050, Physics 1051, Chemistry 1050, English 1090 or 1000 or the former English 1080. Students must meet the English Language Proficiency Requirements for faculty admission as outlined in the University Calendar.

Transfer applicants

Applicants seeking admission to Engineering One through transfer from accredited post-secondary institutions must have achieved a minimum overall average of 70 per cent and have been determined to have completed the equivalent of or be eligible to register for, Mathematics 1000. Students must meet the English Language Proficiency Requirements for faculty admission as outlined in the University Calendar. Transfer applicants are eligible to apply for admission to the Fall semester of Engineering One only, by the deadline of March 1.

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. Transfer applicants must complete a majority of the credit hours in their program at Memorial University. Students must meet the English Language Proficiency Requirements as outlined in the University Calendar. Such students should contact the Office of the Associate Dean (Undergraduate Studies), engr@mun.ca.

Applications to the faculty programs

Applications for admission to the Bachelor of Engineering degree program for the Fall semester must be submitted to the Office of the Registrar no later than March 1. A complete application package includes a general application for admission to the university, the appropriate application fee and any other required supporting documentation. For the current application process, please see: www.mun.ca/undergrad/apply/.

Engineering One

The first year of the engineering program is referred to as Engineering One. Engineering One is comprised of courses in English, mathematics, physics and chemistry in addition to four courses covering engineering fundamentals that are common to all of the majors. These four engineering courses introduce students to engineering problem-solving, analysis, design, communication and teamwork. Students will develop an understanding of the different engineering specialties, as well as the interdisciplinary nature of engineering practice.

Structure of the Engineering Program

<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>AT 3</td>
<td>WT</td>
<td>AT 4</td>
</tr>
<tr>
<td>3</td>
<td>WT</td>
<td>AT 5</td>
<td>WT</td>
</tr>
<tr>
<td>4</td>
<td>AT 6</td>
<td>WT</td>
<td>AT 7</td>
</tr>
<tr>
<td>5</td>
<td>WT</td>
<td>AT 8</td>
<td></td>
</tr>
</tbody>
</table>

Legend: AT - Academic Term; WT - Work Term

* Students who successfully complete all Engineering One requirements by the end of the Winter semester may apply to undertake a work term during the Spring semester. Academic performance (e.g. >70 per cent average) is the main consideration. Students with lower averages are encouraged to improve their academic standing.

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.
Many of the Engineering One courses are also offered in the Spring semester thereby enabling students to plan their Engineering One program over the course of all three semesters. Students are encouraged to take as much time as needed in order to ensure successful performance in all courses (to a maximum of six semesters).

The transition from high school to university can be challenging and students should consider taking a maximum of five courses in the Fall semester. Those who are successful can complete the remaining six courses in the Winter semester. Those who do not do well in the Fall, can retake and/or complete their remaining courses over the Winter and Spring semesters. Students who fail an Engineering One course more than once are ineligible to proceed in the program. 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. Note: All courses in the Engineering One program are also offered at Grenfell Campus.

**Engineering One: program of study**

Courses in Engineering One are as follows:
- English 1090
- Mathematics 1000
- Mathematics 1001
- Mathematics 2050
- Physics 1050
- Physics 1051
- Chemistry 1050
- Engineering 1010
- Engineering 1020
- Engineering 1030
- Engineering 1040

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.

**Students will normally take the following courses in their first year:**

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>Physics 1050**</td>
<td>Physics 1051**</td>
</tr>
<tr>
<td>Chemistry 1050***</td>
<td>Mathematics 2050</td>
</tr>
<tr>
<td>2 Engineering courses (1010 or 1020 and 1030 or 1040****)</td>
<td>2 Engineering courses (1010 or 1020 and 1030 or 1040****)</td>
</tr>
<tr>
<td>Engineering 200W****</td>
<td></td>
</tr>
<tr>
<td>English 1090 or 1000</td>
<td></td>
</tr>
</tbody>
</table>

* Students should consider taking a maximum of five courses in the Fall semester with Engineering 200W.

** Students registered in Physics 1050 must also be registered in or have credit for Mathematics 1000. Students with no background in physics may register in Physics 1020. Students who complete Physics 1020 in their first semester with a grade of at least 70 per cent 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 per cent must complete Physics 1021 before 1051 in order to meet the Engineering One physics requirements.

*** 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 per cent in Chemistry 1010 may register for Chemistry 1050 in the Winter semester.

**** 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.

***** 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
Promotion from Engineering One

All students must successfully complete the requirements of Engineering One prior to being promoted to Academic Term 3. Engineering students eligible for promotion from Engineering One at the end of the academic year of admission will be placed in Academic Term 3 as per the promotion regulations.

Requirements for promotion to Academic Term 3:

- a grade of at least 55 per cent in each of Mathematics 1001, Mathematics 2050, Physics 1051, Chemistry 1050, English 1090 (or equivalent), Engineering 1010, 1020, 1030 and 1040
- an overall average of at least 65 per cent in the above nine courses
- To be considered for promotion to Academic Term 3 no required course in Engineering One may be failed more than once. If a student fails one of the Engineering One courses more than once the student will be withdrawn from the Engineering program.

Promotion Status for Academic Term 3

- A student promoted to Academic Term 3 with an Engineering One promotion average of 75 per cent and greater is guaranteed a preferred major.

- A student who meets the promotion requirements and has an Engineering One promotion average of at least 70 per cent will be guaranteed promotion to Academic Term 3.

- A student who meets the promotion requirements and has an Engineering One promotion average of less than 70 per cent will be promoted to Academic Term 3 as Faculty capacity permits.

Notes:

1. 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.

2. 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.

3. Students in Engineering One are required to apply for their major by March 31 of the year in which admission is sought, indicating their preferences for major in rank order.

4. Students completing Ocean Naval Architectural Engineering have an option to complete a minor in mathematics.

5. Students completing Process Engineering have an option to complete a minor in chemistry.

6. Students completing Electrical Engineering have an option to complete a minor in physics.

Contact information

For additional information please contact:
Faculty of Engineering and Applied Science
Student Liaison Officer
engr-liaison@mun.ca
www.engr.mun.ca
The School of Human Kinetics and Recreation offers undergraduate and graduate degrees in kinesiology, physical education, and recreation. The School's programs prepare students to meet societal needs for professionals who are able to initiate and manage health and lifestyle-enhancing programs. The School encourages a close working relationship among students, faculty, staff and local and national sport, health, and professional organizations.

The co-operative education program integrates academic and professional knowledge. The School prides itself on the extent to which senior undergraduate and graduate students are engaged in teaching, research and scholarly activity. Many graduates of the School are leaders in the fields of physical education, sport, kinesiology, health and recreation.

Degree programs

- Bachelor of Human Kinetics and Recreation (Co-operative)
- Bachelor of Kinesiology
- Bachelor of Physical Education
- Bachelor of Recreation

Admission requirements

Admission is possible directly from high school or following completion of university courses. Admission is competitive for a limited number of places. Overall academic performance is an important criterion in reaching decisions on applications for admission, and will be considered, in the selection process.

High school students are required to meet the general university admission requirements.

Students who are attending or have previously attended this University must have a cumulative average of 60 per cent or an average of 65 per cent on their last 30 credit hours. Students are not required to submit a copy of their Memorial University transcript with their application(s).

Application information is available online at www.mun.ca/hkr/undergraduate/application.php. Completed application forms must be forwarded to the Office of the Registrar no later than March 1 of the year in which admission is sought. Students are accepted into programs only in September of each academic year.

Honours degrees

An honours degree signifies superior academic achievement. To receive an honours degree, a candidate shall:

- meet all the requirements of the general degree
- successfully complete HKR 4600, 4605 and 4610 with a minimum grade of 80 per cent in each course
- obtain an overall average of 80 per cent or better on all HKR courses for the degree
- obtain an overall average of 70 per cent on non-HKR courses for the degree
Bachelor of Human Kinetics and Recreation (Co-Operative)

A human kinetics and recreation (co-operative) degree is designed to prepare graduates 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. The BHKR (Co-operative) shall normally be completed on a full-time basis, and includes 120 credit hours and three work terms.

Students may select from one of five optional pathways within the BHKRC degree. A pathway provides students with the opportunity to focus their studies in one of the following areas. Pathway options include:
- community recreation
- health promotion
- kinesiology
- physical education
- therapeutic recreation.

Students completing the Bachelor of Human Kinetics and Recreation (Co-op) Kinesiology Pathway will normally take the following courses in first year:

**Sample Program**

<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)</td>
</tr>
<tr>
<td>Mathematics 1000</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>

Students completing the Bachelor of Human Kinetics and Recreation (Co-op) Community Recreation, Health Promotion, Physical Education and Therapeutic Recreation Pathways will normally take the following courses in first year:

**Sample Program**

<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)</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>
Bachelor of Kinesiology

A kinesiology degree is designed to prepare graduates for careers in ergonomics, fitness, health and wellness and lifestyle professions. The kinesiology degree program consists of HKR courses in addition to a flexible choice of complementary study courses. The degree can be taken on a full-time or part-time basis and is comprised of 120 credit hours.

For direct entry from high school, applicants must, in addition to meeting the general admission requirements for Memorial University, have successfully achieved the following:

- Level III advanced mathematics, or Level III academic mathematics with a grade of at least 75 per cent
- a grade of at least 70 per cent in a Level III laboratory science course

Students will normally take the following courses in first year:

Sample Program

<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)</td>
</tr>
<tr>
<td>Mathematics 1000*</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>

* Mathematics 1000 must be completed before Academic Term 3

Bachelor of Recreation

A recreation degree, comprised of 120 credit hours, is designed to provide students with the opportunity to develop professional competencies in recreation and leisure service management. The optional therapeutic recreation stream provides professional preparation for the practice of therapeutic recreation.

Students will normally take the following courses in first year:

Sample Program

<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)</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 complimentary study</td>
</tr>
</tbody>
</table>
Bachelor of Physical Education

A physical education degree is designed to prepare graduates for careers in teaching and related areas. Both a teaching and a general option are available within the Bachelor of Physical Education degree. The degrees are comprised of 120 credit hours and can be taken on a full-time or part-time basis.

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. Within the teaching option students complete HKR 3110 and will be placed in an educational setting for some of the course work.

Following completion of a physical education degree - teaching option, a student wishing to teach in a school setting normally completes an intermediate/secondary degree program offered by the Faculty of Education. For information regarding admission requirements to the intermediate/secondary programs refer to the Faculty of Education program information.

General option - The general option is designed to provide basic professional preparation. The general option of the program consists of courses common to the teaching option plus a flexible choice of complementary study courses, in place of the curriculum and methods course HKR 3110.

Of the 120 credit hours required for the BPE degrees, approximately half are non-professional academic courses within the Faculty of Humanities and Social Sciences, the Faculty of Science or other approved areas. The remaining courses deal with the professional theory and practice of physical education/recreation.

Students must complete 24 credit hours in an acceptable academic discipline or minor. In choosing the minor students must follow the minor regulations of the appropriate faculty or school. In choosing the academic discipline students must select from and follow the academic discipline requirements of the Faculty of Education Bachelor of Education (Intermediate/Secondary) admission regulations. No more than six credit hours at the 1000 level may be included in the 24-credit-hour academic discipline. At least three credit hours at the 3000 level or higher must be included in the 24-credit-hour academic discipline.

Students are required to submit a current first aid certificate and pass a swimming test administered by the school. Students should call the general office at (709) 864-8130 to contact the swim test co-ordinators to arrange for testing. In lieu of the school swim test, a Level 8 Red Cross or other credential satisfactory to the school may be accepted. Students unable to complete the swim test requirement before the beginning of the term of admission must successfully complete this requirement by the end of October; otherwise the student will be required to withdraw from the program.

Students will normally take the following courses in first year:

Sample Program

<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)</td>
</tr>
<tr>
<td>HKR 2000</td>
<td>HKR 2500</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>three credit hours in Mathematics at the 1000 level</td>
<td>three credit hours in Mathematics at the 1000 level</td>
</tr>
<tr>
<td>three credit hours from academic discipline or minor</td>
<td>three credit hours in a lab science (biology, chemistry and physics are recommended)</td>
</tr>
</tbody>
</table>

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

Contact Information

For additional information please contact:
John Saunders
jsaunder@mun.ca
www.mun.ca/hkr
HUMANITIES & SOCIAL SCIENCES

Why study the humanities and social sciences?

The study of the humanities and social sciences will enrich your life and open the way to a rewarding career. The Faculty of Humanities and Social Sciences is where students can study what fascinates them while pursuing a program that suits their aspirations both for learning and meaningful work. It is a Faculty where students can immerse themselves in human knowledge and understand how we got to where we are now – and where we might be going. An arts degree will give students a strong foundation of knowledge, along with critical thinking, research, analytical and communication skills needed to succeed and adapt in a dynamic and rapidly evolving economy. The study of the humanities and social sciences develops all these qualities that will never become obsolete; clear thinking and powers of communication have no expiry date.

What can students study?

The Faculty of Humanities and Social Sciences offers courses in the humanities and social sciences. The humanities are branches of knowledge that investigate human beings, their culture and their self-expression. They encompass disciplines of memory and imagination. The social sciences are a branch of science that deals with the institutions and functioning of human society. They explore empirical disciplines of behavioural, interpersonal, and organizational processes. Many of the Faculty’s departments offer courses that deal with both the humanities and the social sciences.

Degree Programs

- Bachelor of Arts (BA)
- International Bachelor of Arts (iBA)
- Joint Degrees of Bachelor of Arts and Bachelor of Commerce
- Joint Degrees of Bachelor of Arts and Bachelor of Science

Future Course Offerings

This webpage is the best way to anticipate future course offerings in the Faculty of Humanities and Social Sciences, www.mun.ca/hss/courses.php.

Diploma Programs

www.mun.ca/hss/programs/undergraduate/diplomas

Diploma programs are 24 to 36 credit hours. Eligible credit hours may be used towards both the diploma program and a degree. The following diploma programs are currently available:

- Ancient Worlds
- Creative Writing
- Environmental Humanities
- Geographic Information Sciences
- Humanities
- Stage and Screen Technique
- Police Studies.

Certificate Programs

www.mun.ca/hss/programs/undergraduate/certificates

Certificate programs are 18 to 21 credit hours. Eligible credit hours may be used towards both the certificate program and a degree. The following certificate programs are currently available:

- Certificate in Indigenous-Aboriginal Studies
- Ancient Languages
- Criminology
- Film Studies
- Food Studies
- Newfoundland and Labrador Studies
- Public Policy.

Study Abroad

www.mun.ca/goabroad

There are a multitude of study abroad programs for nearly any program of study. In particular the iBA degree features a study abroad option. For more information on international programs for Humanities and Social Sciences students can contact natalie.spracklin@mun.ca.

Contact information

For additional information please contact:
hss@mun.ca
www.mun.ca/hss
BACHELOR OF ARTS

Students can indicate their intention to complete a Bachelor of Arts (BA) program when completing the General Application for Admission to Memorial University. Most major and minor programs do not have any additional admission requirements beyond those for admission to the University. Application may also be made by contacting the Office of the Registrar at reghelp@mun.ca.

Bachelor of Arts degree requirements

The general and honours BA degrees require the completion of a minimum of 120 credit hours, consisting of the following components:

- core requirements
- major program
- minor (or second major) program
- electives.

Core requirements: The core curriculum is a set of courses required of all arts undergraduates that encourages a breadth 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.

The BA core requirements comprise:

Breadth of Knowledge: ensures that students have exposure to courses in a variety of disciplines and interdisciplinary areas of study within the humanities and social sciences. To fulfill the Breadth of Knowledge requirement, a student’s Bachelor of Arts program (core, major, minor and electives) must contain at least one course in a minimum of six of the following areas of study in the Humanities and Social Sciences chosen from: 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.

Critical Reading and Writing (CRW): designated courses 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. Students in the Faculty of Humanities and Social Sciences can receive no more than six credit hours in Critical Reading and Writing courses at the same academic level in any single discipline. More information is available at www.mun.ca/hss/crw.

Language Study (LS): designated courses 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, as described in the LS course guidelines available at www.mun.ca/hss/ls. Students must complete a minimum of six credit hours in LS courses.

Quantitative Reasoning (QR): designated courses 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. Students must complete a minimum of six credit hours in QR courses. More information is available at www.mun.ca/hss/qr. Students must complete a minimum of six credit hours in QR courses.

Major and minor subject areas

A major is a concentrated area of study involving 36 to 45 credit hours. A student must also complete a minor, which is a minimum of 24 credit hours. As an alternative to a minor, a student may complete a second major. Program choices include:

- anthropology
- archaeology
- classics
- communication studies*
- economics (also available as a B.Sc.)
- English (specialization in theatre/drama available)
- folklore
- French
- gender studies
- geography (also available as a B.Sc.)
- German
- history
- law and society*
- linguistics
- medieval studies*
- philosophy
- police studies* (major only)
- political science (concentrations in Canadian government and global studies available)
- religious studies
- Russian language and literature
- sociology
- Spanish
Students completing a major in an interdisciplinary program must complete a minor, or second major, in a single subject.

Some majors from the Faculty of Science are also available as an arts degree. See the Faculty of Science section of the FYI for details.

- computer science
- mathematics
- psychology
- statistics.

**Minors are also available in:**

- business administration (Faculty of Business Administration)
- Faculty of Science subject areas
- international business (Faculty of Business Administration)
- music and culture (School of Music)
- music history (School of Music).

Information on these minor programs may be found in the respective sections of this FYI. **Note:** All BA students must complete at least one of the major or minor in a subject that is considered humanities or social sciences.

**Honours Degree**

An honours degree requires, over and above the requirements of the general degree, a concentration at an advanced level in an approved field, consisting of a subject or subjects of specialization and/or related subjects, and a high quality of work throughout the program. An honours degree is of distinct advantage if you plan on doing advanced work in your chosen field and also if you have a clear commitment to some special field of study. It may be of particular advantage for students considering graduate studies.

The BA (honours) is offered in the following subject areas:

- anthropology
- archaeology
- classics (honours in Greek and Roman studies also available)
- economics (also available as a B.Sc.)
- English
- folklore
- French
- geography (also available as a B.Sc.)
- German
- history
- linguistics
- philosophy
- political science
- psychology
- religious studies
- sociology.

**Co-operative Education**

Co-operative education provides an excellent mutual opportunity for students and employers. Students will learn valuable practical skills in an employment situation during their course of study. Furthermore, paid employment will help to defray the cost of education. Students will obtain rewarding employment experience for several months of continuous duration.

The BA (co-op) is offered in the following subject areas:

- archaeology
- economics
- political science
- psychology (Faculty of Science).

**Students will normally take the following courses in their first year:**

**Sample 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 chosen from major subject area</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>
<tr>
<td>major program course</td>
<td>major program course</td>
</tr>
<tr>
<td>elective course (breadth encouraged)</td>
<td>elective course (breadth encouraged)</td>
</tr>
</tbody>
</table>

*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 additional 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.*
INTERNATIONAL BACHELOR OF ARTS

The International Bachelor of Arts (iBA) degree program is designed for students 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.

Students can indicate their intention to complete the iBA program when completing the General Application for Admission to Memorial University. Application may also be made by contacting the Office of the Registrar at reghelp@mun.ca. Admission to the International Internship Option is limited and competitive.

The iBA program is available exclusively to students who complete a major or honours program in one of the following Faculty of Humanities and Social Sciences programs: anthropology, archaeology, classics, economics, English, folklore, French, gender studies, geography, German, history, linguistics, philosophy, political science, religious studies, Russian, sociology, Spanish.

A student who wishes to enter an iBA program is strongly advised to consult an academic advisor and international exchange coordinator early in their university career, as it may not be possible to complete the requirements for the degree in the normal time if the decision to embark on the program is delayed beyond the end of the second year.

An iBA degree requires the completion of a minimum of 120 credit hours which include:

- major or honours program
- minor (or second major) program
- core requirements of the General Degree of Bachelor of Arts
  - breadth of knowledge
  - critical reading and writing (CRW)
  - language study (LS)
  - quantitative reasoning (QR)
- additional university-level language study (LS) courses
- international (IS) studies courses
- participation in either an international study or internship placement requiring residency outside of Canada for a semester.

International Studies (IS) courses requirement:
Students must complete a minimum of 24 credit hours in designated IS courses as outlined at www.mun.ca/hss/IS.

Additional Language Study (LS) Requirement:
Student must complete 12 credit hours in LS courses as follows:

- six credit hours in university-level study of a single language to satisfy the LS requirement
- six additional credit hours in eligible LS courses, as identified in the iBA regulations.

More information can be found at www.mun.ca/hss/ls.

International Experience Requirement: During the program of study and while residing outside of Canada, a student for the iBA degree is required to complete either university-level study or an approved international internship. Additional information is available at www.mun.ca/hss/iba.

Students will normally take the following courses in their first year:

Sample 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 course (CRW) 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>
<tr>
<td>major program course</td>
<td>major program course</td>
</tr>
<tr>
<td>elective (IS course recommended)</td>
<td>elective (IS course recommended)</td>
</tr>
</tbody>
</table>
JOINT DEGREES OF BACHELOR OF COMMERCE (CO-OPERATIVE) AND BACHELOR OF ARTS

The joint degrees of Bachelor of Commerce (Co-operative) and Bachelor of Arts can be completed in five years, provided appropriate planning is undertaken. Some of the normal degree requirements have been relaxed by each faculty for students who wish to complete both programs in a minimum of 150 credit hours and graduate with both degrees at the same convocation.

Admission and program planning

In the first year, Terms A/B students must successfully complete 30 credits as outlined in the sample program.

A student must achieve an overall average of 65 per cent on these 30 credit hours 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 elective courses are selected with specific requirements for the BA in mind. Language Study (LS) courses and courses in the intended major should round out the first-year program.

The schedule of courses and work terms required for the B.Comm. (Co-op.) are set out in the University Calendar.

For the BA, students are recommended to discuss their program before the end of their first year with an advisor in the department of their major to make sure that required courses will be available within the constraints of course scheduling and prerequisites.

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

Students will normally take the following courses in their first year:

Sample Program

<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 a BA core requirement course</td>
</tr>
<tr>
<td>Economics 1010**</td>
<td>Economics 1020**</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>
<tr>
<td>English 1090 or 1020</td>
<td>English 1110 or 1021</td>
</tr>
</tbody>
</table>

*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 course toward the BA core requirements in the Winter semester.

**These courses may be taken in any order in either semester.

***Business 1000 may be taken in either semester.

Notes:

1. Students who follow the above sample program, and who were not admitted directly into the B.Comm. (Co-op.) program from high school, are eligible to apply for admission into Term 1 of the program. Applications must be submitted to the Office of the Registrar by March 1. Please note that while a 65 per cent average enables eligibility to the program, it does not guarantee admission.

2. 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.
JOINT DEGREES OF BACHELOR OF ARTS AND BACHELOR OF SCIENCE

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 Humanities and Social Sciences and the Faculty of Science. 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 Bachelor of Science, and must graduate with both degrees at the same convocation.

The minimum of 135 credit hours for the Joint Degrees of Bachelor of Arts and Bachelor of Science shall include:

- a major program chosen from those majors offered by departments within the Faculty of Humanities and Social Sciences and the interdisciplinary Arts majors, with the exception of majors offered by the Department of Computer Science, the Department of Mathematics and Statistics, and the Department of Psychology
- a major program chosen from those majors offered by departments within the Faculty of Science with the exception of majors offered by the Department of Economics and the Department of Geography
- the Core Requirements for the Faculty of Humanities and Social Sciences (including the breadth of knowledge requirement, the critical reading and writing requirement, the language study requirement, and the quantitative reasoning requirement), for which the quantitative reasoning requirement shall be satisfied by six credit hours in mathematics
- 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, and 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 credit hours in the Faculty of Humanities and Social Sciences and a requirement for credit hours in the Faculty of Science.
- 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.

Note: Admission into the major programs will follow the regulations of the appropriate Faculty and Department.

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.

Students will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090</td>
<td>CRW course from BA major program</td>
</tr>
<tr>
<td>Mathematics 1000 or 1090*</td>
<td>Mathematics 1001 or 1090*</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. course chosen in consultation with an advisor</td>
<td>BA or B.Sc. course chosen in consultation with an advisor</td>
</tr>
</tbody>
</table>

*the choice of a mathematics course will depend on the major program(s) chosen. Students should refer to the math course criteria chart prior to selecting their first-semester course.
Sample first-year programs are shown below for each of the major programs offered within the Faculty of Humanities and Social Sciences.

### Anthropology

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anthropology 1031</strong></td>
<td>three credit hours in anthropology chosen from 2410-2416</td>
</tr>
<tr>
<td><strong>English 1090 (CRW)</strong></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>language study (LS) course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
</tbody>
</table>

### Archaeology

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Archaeology 1000</strong></td>
<td><strong>Archaeology 1001 (CRW) or 1005</strong></td>
</tr>
<tr>
<td><strong>English 1090 (CRW)</strong></td>
<td><strong>Archaeology 2480</strong></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 (breadth of knowledge course encouraged)</td>
<td>elective (breadth of knowledge course encouraged)</td>
</tr>
</tbody>
</table>

### Classics

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>classics 1000-level course</td>
<td><strong>Classics 1001 (CRW)</strong></td>
</tr>
<tr>
<td>Classics 1120 (LS) or 1130 (LS)</td>
<td>Classics 1121 (LS) or 1131 (LS)</td>
</tr>
<tr>
<td><strong>English 1090 (CRW)</strong></td>
<td>elective (breadth of knowledge course encouraged)</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
</tbody>
</table>

### Communication Studies

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communication Studies 2000</strong></td>
<td><strong>Communication Studies 2001</strong></td>
</tr>
<tr>
<td><strong>English 1090 (CRW)</strong></td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td><strong>language study (LS) course</strong></td>
<td><strong>language study (LS) course</strong></td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
</tbody>
</table>
Computer Science

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science 1001 (QR)</td>
<td>Computer Science 1002 (QR)</td>
</tr>
<tr>
<td>Mathematics 1090* or 1000 (QR)</td>
<td>Mathematics 1000 or 1001 (QR)</td>
</tr>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
</tbody>
</table>

*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. Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

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 to a Bachelor of Arts program in Computer Science, students must have normally completed 24 credit hours as listed below:

- Computer Science 1001, 1002.
- six credit hours to satisfy the critical reading and writing (CRW) requirement, including at least three credit hours in English
- six credit hours to satisfy the language study requirement
- Mathematics 1000 and 1001 (or 1090 and 1000).

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.

Economics

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economics 1010 (QR)</td>
<td>Economics 1020 (QR)</td>
</tr>
<tr>
<td>Mathematics 1090* (QR)</td>
<td>Mathematics 1000* (QR)</td>
</tr>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
</tbody>
</table>

*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.

English

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
<tr>
<td>elective (breadth of knowledge course encouraged)</td>
<td>elective (breadth of knowledge course encouraged)</td>
</tr>
</tbody>
</table>
### Folklore

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folklore 1000</td>
<td>Folklore 2100</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading and writing (CRW) course</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>language study (LS) course</td>
</tr>
</tbody>
</table>

### Gender Studies

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gender Studies 1000</td>
<td>Gender Studies 2006</td>
</tr>
<tr>
<td>English 1090 (CRW)</td>
<td>Gender Studies 1005 (CRW)</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>

### French

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>French 1501* (LS)</td>
<td>French 1502 (LS)</td>
</tr>
<tr>
<td>English 1090 (CRW)</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
<tr>
<td>breadth of knowledge course (Classics 1120 recommended)</td>
<td>breadth of knowledge course</td>
</tr>
</tbody>
</table>

*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.

If you are unsure of the course to select, or have difficulty registering for your intended French course, you should contact the Department of Modern Languages, Literatures and Cultures.

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.

### Geography

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090 (CRW)</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>Geography 1050 (QR)</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>language study (LS) course</td>
</tr>
<tr>
<td>breadth of knowledge course</td>
<td>breadth of knowledge course</td>
</tr>
</tbody>
</table>
### German

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>German 1000</td>
<td>German 1001</td>
</tr>
<tr>
<td>English 1090 (CRW)</td>
<td>German 1010 (CRW)</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
<tr>
<td>breadth of knowledge course</td>
<td>breadth of knowledge course</td>
</tr>
</tbody>
</table>

### History

<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 (CRW)</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>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>history 2000-level course</td>
</tr>
</tbody>
</table>

### Linguistics

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

### Mathematics & Statistics

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or 1090)* (QR)</td>
<td>Mathematics 1100 (or 1000) (QR)</td>
</tr>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>Statistics 1510 or elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>

*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.

Mathematics majors should complete a computer programming course such as Computer Science 1510 or 1001 in one of the first three semesters.
Philosophy

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Philosophy 1010 or 1011 (CRW)</td>
<td>Philosophy 2010, 2020 or 2030 (QR)</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>English 1090 (CRW)</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>

Political Science

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Political Science 1000</td>
<td>political Science 2000 level</td>
</tr>
<tr>
<td>English 1090</td>
<td>Political Science 1001</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>
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</tbody>
</table>

Police Studies

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1090 (CRW)</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) 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>
### Psychology

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>three credit hours in mathematics* (QR)</td>
<td>three credit hours in mathematics* (QR)</td>
</tr>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
</tbody>
</table>

*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 or any two of Mathematics 1050, 1051 and 1090 are required for admission to the major program in psychology. Students who complete Mathematics 1000 in the Fall semester may complete an elective in the Winter semester.

Admission to the major programs in the Department of Psychology is competitive and selective. Students who wish to enter these programs must submit a completed application form to the Psychology Department by June 1 for Fall semester registration. To be eligible for admission, students must have completed the 24 credit hours as listed below with an average of at least 65 per cent in Psychology 1000/1001 and an overall average of at least 60 per cent in Psychology, Critical Reading and Writing, and Mathematics:

- Psychology 1000, 1001
- six credit hours in [Critical Reading and Writing (CRW)](#) courses, including at least three credit hours in English courses
- Mathematics 1000, or two of 1090, 1050, 1051 (or equivalent)
- six credit hours of electives (nine if only Mathematics 1000 is completed).

Students who fulfill the eligibility requirements compete for a limited number of available spaces. Selection is based on academic performance, normally cumulative average and performance in recent courses.

### Religious Studies

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Religious Studies 1000-level course</td>
<td>Religious Studies 2000-level course</td>
</tr>
<tr>
<td>English 1090 (CRW)</td>
<td>Religious Studies 1001 (CRW)</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>
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</tbody>
</table>

### Russian

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
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</thead>
<tbody>
<tr>
<td>Russian 1000 (LS)</td>
<td>Russian 1001 (LS)</td>
</tr>
<tr>
<td>English 1090 (CRW)</td>
<td>critical reading and writing (CRW) course</td>
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<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>
### Sociology

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology 1000</td>
<td>sociology 2000 level</td>
</tr>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
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</tbody>
</table>

### Spanish

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanish 1000 (LS)</td>
<td>Spanish 1001 (LS)</td>
</tr>
<tr>
<td>English 1090 (CRW)</td>
<td>critical reading and writing (CRW) course</td>
</tr>
<tr>
<td>minor program course</td>
<td>minor program course</td>
</tr>
<tr>
<td>quantitative reasoning (QR) course</td>
<td>quantitative reasoning (QR) course</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>elective (breadth of knowledge encouraged)</td>
</tr>
</tbody>
</table>

### Statistics

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or 1090) (QR)</td>
<td>Mathematics 1001 (or 1000) (QR)</td>
</tr>
<tr>
<td>elective (breadth of knowledge encouraged)</td>
<td>Statistics 2500* or Mathematics 2050</td>
</tr>
<tr>
<td>English 1090 (CRW)</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>language study (LS) course</td>
</tr>
</tbody>
</table>

*Statistics 2500 can be taken in the Winter semester by students who completed Mathematics 1000 in the Fall semester. Students who complete Mathematics 1090 in the Fall semester can take Mathematics 2050 in the Winter semester and Statistics 2500 in second year.
The degree of Doctor of Medicine (MD), normally offered as a second degree program, is a four year undergraduate degree consisting of a minimum of 186 credit hours. Upon successful completion, students are qualified to enter a postgraduate medical training program.

A student who plans to study medicine should have a sound background in high school English, mathematics, chemistry and, if possible, physics and biology. In general, students who wish to enter the medical school are best advised to pursue a degree program of their interest.

The competition for the limited number of places is very keen. For the approximately 80 places available every year, there are about 800 applications from all over Canada and other countries; however, the policy of the medical school is to give Newfoundland and Labrador students priority. Based on the number of applicants in this pool (about 200 per year) and the number of places reserved (about 57 plus three places for Aboriginal applicants), a bona fide Newfoundland and Labrador resident stands about one chance in five of being admitted.

Applications

The application deadline is early in September of each year, www.med.mun.ca/admissions. All applicants are encouraged to use the online admissions system on the Faculty of Medicine’s Admissions Office website to apply.

Admission requirements

The requirements for admission are as follows:

- a bachelor’s degree completed at a recognized institution
- performance on the Medical College Admissions Test (MCAT).

In exceptional circumstances, an application may be considered from someone who does not expect to hold a bachelor’s degree at the time of admission.

Information pertaining to taking the MCAT may be obtained from the Faculty of Medicine’s Admissions Office or online, www.aamc.org/.

Selection process

All applicants for admission to medical school are screened by an admissions committee which considers academic performance, scores on the MCAT, referee reports, interview reports, extra-curricular activities (including volunteer work) and any other relevant information.

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
MUSIC

Degree Programs:

- Bachelor of Music
- Joint Degrees of Bachelor of Music and Bachelor of Business Administration
- Bachelor of Music Education as a Second Degree

BACHELOR OF MUSIC

The Bachelor of Music (B.Mus.) is a four-year program intended to provide professional training and education in music. In the second year, many students will apply to a major in one of the following areas: performance, composition, musicologies (focusing on music history and culture from classical, world, and popular music traditions), or general musical studies. Students in the general musical studies major have the option of taking a minor in a discipline other than music.

Students planning a career in music education may complete the comprehensive major. All students who plan to focus on music education should declare the comprehensive major in their second semester.

BACHELOR OF MUSIC JOINT WITH BACHELOR OF BUSINESS ADMINISTRATION

The Joint Degrees Bachelor of Music (B.Mus.) and Bachelor of Business Administration (BBA), is a five-year joint degrees program, in which students receive a full, continuous degree program of music learning and development including: applied studies and mentorship, ensemble performance, chamber music, musicologies, music theory (written theory and aural skills), music technology, and careers skills. At the same time, they receive a full business degree program and develop knowledge and skills across business studies including: business in society, accounting, finance, marketing, branding, management, strategy, and entrepreneurship. The joint degrees significantly heightens the ability of graduates to pursue professional careers in music and related industries. Additionally, with the completion of two degrees, graduates will benefit from expanded career horizons.

Admission requirements
(B.Mus. AND Joint B.Mus. with B.B.A)

Students are normally admitted to the B.Mus. degree program at the beginning of the Fall semester. Successful applicants may enter the program immediately in their first semester. Students must meet the admission requirements to the Bachelor of Music degree program and must be admitted to that program. All applications must be submitted to the Office of the Registrar. The deadline for applications is Jan. 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 online at www.mun.ca/music/programs/undergraduate/. Applicants for the Joint Degrees B.Mus and BBA must submit a 750-word letter of motivation highlighting the applicant’s relevant past experiences, career plans and motivation for pursuing the joint degrees program.
Bachelor of Music

Students 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 1005</td>
<td>3</td>
</tr>
<tr>
<td>Music 1107*</td>
<td>3</td>
</tr>
<tr>
<td>Music 1117**</td>
<td>1</td>
</tr>
<tr>
<td>Music 1700***</td>
<td>1</td>
</tr>
<tr>
<td>Electives****</td>
<td>1 - 4</td>
</tr>
</tbody>
</table>

English 1090 or another Critical Reading and Writing course offered by the Faculty of Humanities and Social Sciences | 3 |

* 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

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

*** 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 will be permitted to register for a maximum of 18 credit hours per semester, without requiring written permission of the director. Electives may be chosen from:

- Music courses, such as Music 2700/2701 (Lyric Diction - required for singers), 2612-2620 (large ensembles other than festival choir), 3500/3511 (chamber music - permission required),
- Disciplines other than music: Students planning to apply for admission to the Music Education as a Second Degree program are encouraged to start taking courses in a second teachable subject as early as possible.

Joint Degrees of Bachelor of Music and Bachelor of Business Administration

Students 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 Mathematics 1000*</td>
<td>Economics 1010 or Mathematics 1000* (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 1107**</td>
<td>Music 1006</td>
</tr>
<tr>
<td>Music 1117***</td>
<td>Music 1108</td>
</tr>
<tr>
<td>Music 1700****</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>

* 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. 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.

** 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

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

**** 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.

Note: 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.
Information for students applying to the Bachelor of Music program next year:

All interested students are encouraged to apply in Grade 12 or Level III. Students who feel they are not ready to pursue a music degree in their first year of university study may defer their application. For these students, there are music courses that can provide excellent preparation for the first year of the program. These courses, which are not applicable to the Bachelor of Music program, cover topics in music history (Music 2011, Music 2012 and Music 2014) and music theory (Music 1116 and Music 1120).

First-semester program for students applying to the Bachelor of Music next year:

For students choosing to defer their application, the following sample program is provided for their first year of university:

Sample Program – students applying next year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>one of Music 2011, 2012 or 2014*</td>
<td>3</td>
</tr>
<tr>
<td><strong>Music 1105</strong></td>
<td>3</td>
</tr>
<tr>
<td>electives: One of Music 2611 – 2620 and/or courses from disciplines other than music***</td>
<td>up to 6</td>
</tr>
<tr>
<td><strong>English 1090</strong> or another Critical Reading and Writing (CRW) course offered by the Faculty of Humanities and Social Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

* Music 2011, 2012 and 2014 may not be used toward meeting the requirements of the Bachelor of Music degree program.

**Music 1105 is reserved for students who have been admitted into the Bachelor of Music program. Students not admitted into the program may be able to register for the course if space permits. Such students should contact music@mun.ca.

*** Disciplines other than music: Students planning to apply for admission to the Music Education as a Second Degree program are encouraged to start taking courses in a second teachable subject as early as possible.

BACHELOR OF MUSIC EDUCATION AS A SECOND DEGREE

The Bachelor of Music Education as a Second Degree is a 45 credit hour degree program for students who have already been awarded a Bachelor of Music degree. This program is the same as the music education component of the conjoint program. The program is designed to prepare music teachers in all facets of school music education: foundations of music education; primary/elementary, intermediate/secondary classroom music; and choral and instrumental music education. The program consists of 30 credit hours of course work in music education and general foundational education and a 15 credit hour teaching internship.

Admission requirements

To be considered for admission, students must have been awarded a Bachelor of Music degree (or equivalent) from a recognized post-secondary institution. Applications for admission are considered once a year, normally for the Fall semester. Deadline for submission of applications is Jan. 15 in any year. Consideration will be given to the Winter semester courses for which students are registered at the time of application.

MINOR PROGRAMS

Students completing a degree other than music may elect to complete one of the following minor programs offered by the School of Music.

Music History

A minor in music history requires 27 credit hours and is intended to provide a fairly detailed survey of the language and literature of music. It does not include practical training in performance.

Music and Culture

An interdisciplinary program offered jointly between the School of Music and the Department of Folklore, this minor will give students a unique interdisciplinary opportunity to learn about the musical traditions of Newfoundland and Labrador within the wider context of world music traditions.
SCHOOL OF MUSIC ENSEMBLES

All students at Memorial University are welcome to participate in Festival Choir (Music 2611). In addition, students may audition for membership in the following School of Music ensembles: Wind Ensemble, Jazz Ensemble, Chamber Orchestra, Chamber Choir and Opera Workshop. Auditions are held at the start of the Fall and Winter semesters.

Students admitted to the ensembles may participate on a non-credit basis or they may register for an elective credit. For the audition schedules and for information on registering for ensemble credit, contact the School of Music at: (709) 864-7486.

Contact Information

For additional information please contact:
Dr. Ian Sutherland
isutherland@mun.ca
www.mun.ca/music
BACHELOR OF NURSING

The Bachelor of Nursing (BN) (Collaborative) Program is designed to prepare competent entry-level nurses to practice in a variety of settings in a changing health care environment.

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 Nurse Practice” when considering nursing as a career choice. This document can be found on the Nursing Admissions website.

The Four-Year Option of the Bachelor of Nursing (Collaborative) Program is offered at:

- Memorial University Faculty of Nursing in St. John’s
- Centre for Nursing Studies in St. John’s
- Western Regional School of Nursing in Corner Brook

Admission is on the basis of competition for a limited number of seats. Selection of candidates will be based on academic performance, and other criteria considered suitable for professional practice in nursing and evidence of ability to successfully maintain a full course load.

Admission requirements

Applications, including all required documents, for the Four-Year and Accelerated options of the BN (Collaborative) Program must be received by Feb. 1. Applications for the LPN Bridging option must also be received by Feb. 1. High School applicants must ensure they send a copy of their February/midterm report card to the MUN Admissions Office, admiss.docs@mun.ca, by March 1.

Please note that the all admission deadlines for the BN (Collaborative) Program will be Feb 1 beginning September 2019.

The BN Program begins in the Fall semester of each year.

Additional BN admission information for high school applicants can be found on this link: www.mun.ca/nursingadmissions/AdmissionInformation/HighSchoolApplicants.

For additional admission information, visit our admissions website at: www.mun.ca/nursingadmissions.

Notes:

1. Biology is required for admission. Students who attended high school in Newfoundland and Labrador will need to have completed both Biology 2201 and 3201 to meet admission requirements. Students who have graduated from another high school program should check with the Undergraduate Nursing Admissions Office, to see if they have completed equivalent courses. Students who have met the BN admission requirement for biology in high school do not need to take biology in first year. Students who do not have the required biology courses completed from high school will need to complete both Biology 1001 and Biology 1002 to meet admission requirements.

2. Chemistry is required for admission. Students who completed high school in Newfoundland and Labrador will need to have completed Chemistry 3202 to meet the admission requirement. Students who have graduated from another high school program should check with the Undergraduate Nursing Admissions Office, to see if they have completed an equivalent course. Students who have met the BN admission requirement for chemistry in high school do not need to take chemistry in first year. Students who do not have the required chemistry course completed from high school will need to complete Chemistry 1010 (at the St. John’s campus) or Chemistry 1810 (at the Grenfell Campus) to meet the admission requirements.
High school applicants

High School applicants to the Bachelor of Nursing (Collaborative) Program must have completed a high school diploma, or its equivalent, as certified by the Department of Education of Newfoundland and Labrador and meet the general admission/readmission requirements of Memorial University.

High school courses must include the following or their equivalents:

- Biology 2201 and 3201
- Chemistry 3202
- English 3201
- Mathematics 3200 or 3201
- social science or modern language (two credits at the 3000 level)

Note: Out-of-province applicants must have the equivalent of the courses listed above in order to meet the admission requirements for the Bachelor of Nursing (Collaborative) Program.

First-year program

Students accepted to the Bachelor of Nursing (Collaborative) Program will normally take the following courses in first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nursing 1002</td>
<td>Nursing 1012</td>
</tr>
<tr>
<td>Nursing 1003</td>
<td>Nursing 1014</td>
</tr>
<tr>
<td>Nursing 1004</td>
<td>Nursing 1015</td>
</tr>
<tr>
<td>Nursing 1017</td>
<td>Nursing 1016</td>
</tr>
<tr>
<td>(1 credit hour)</td>
<td></td>
</tr>
<tr>
<td>Biochemistry 1430</td>
<td>Nursing 1520</td>
</tr>
<tr>
<td>English (usually 1000 or 1090)</td>
<td></td>
</tr>
</tbody>
</table>
Students applying to the BN Program Next Year

A student who plans to apply to the BN (Collaborative) Program after a year at university must complete the required biology, chemistry and mathematics courses if they have not completed the required high school courses.

In addition, they 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 designated 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 (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.)
- three credit hours in electives.

Biochemistry 1430 and Microbiology 3053 are reserved for students in the BN program.

Acceleration Option of the BN (Collaborative) Program

Students with two or more years of university experience and a strong academic record may be eligible for the Accelerated Option of the BN (Collaborative) Program. Please see www.mun.ca/nursingadmissions/ProgramInformation/AcceleratedOption/index.php for information about this option.

Notes:

1. Completion of these non-nursing courses does not guarantee acceptance into the BN Program. Students should seek advice from the Academic Advising Centre at the St. John’s campus or the Office of the Registrar at Grenfell Campus prior to registering for required non-nursing courses.

2. Students of Aboriginal ancestry are advised that up to three seats per year are reserved in the Four-Year BN (Collaborative) Program for students of Aboriginal ancestry who have met the BN admission requirements, but 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.

Contact information

Admission inquiries should be directed to the Undergraduate Nursing Admissions Office:
www.mun.ca/nursingadmissions

For additional information please visit:

Memorial University Faculty of Nursing:
www.mun.ca/nursing

Centre for Nursing Studies:
www.centrefornursingstudies.ca

Western Regional School of Nursing:
www.grenfell.mun.ca/nursing
Why study pharmacy?

The pharmacy program is designed for highly motivated students who seek a career as a pharmacist. The program will deliver practice-ready pharmacists who are prepared to embrace the full and expanding scope of pharmacy practice.

Pharmacy graduates are prepared to work in a variety of settings including: community pharmacy and hospital environments, pharmaceutical industries, government and pharmacy associations, or to undertake advanced training in clinical practice and research.

DOCTOR OF PHARMACY (PHARM.D.)
(Full-time program)

Memorial’s undergraduate pharmacy program has changed from a Bachelor of Science (Pharmacy) to an entry-to-practice Doctor of Pharmacy (Pharm.D.) as the first professional degree for pharmacy students.

Completion of the Pharm.D. program normally takes six years to complete: 10 specific prerequisite courses (30 credit hours) prior to admission plus five years in the pharmacy program.

A graduate of the program will be eligible to apply to be licensed as a pharmacist in Newfoundland and Labrador and other provinces in Canada after successful completion of provincial and national examinations.

Admission requirements

Applications must be received by Feb. 1 of any year for admission to the first year of the program in September later that same year. To be eligible for admission, an applicant must have successfully completed 10 specific prerequisite courses (30 credit hours) by May 1 in the year in which admission is being sought.

The 10 prerequisite courses are:

- Biology 1001 and 1002
- Chemistry 1050 and 1051 at St. John’s campus or Chemistry 1200 and 1001 at Grenfell Campus
- six credit hours in English, three credit hours of which may be replaced by any MUN Critical Reading and Writing (CRW) course
- Mathematics 1000 and 1001
- Physics 1020 or 1050, and Physics 1021 or 1051

The School of Pharmacy admits 40 students each September. The admissions process takes into account academic grades and performance in a face to face interview. Priority for a number of seats is given to students who are residents of Newfoundland and Labrador. One seat per year is reserved for residents of Newfoundland and Labrador First Nations or Aboriginal ancestry who have met the required criteria for this seat.

Students interested in applying to the School of Pharmacy should take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester*</th>
<th>Winter Semester</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**</td>
<td>Chemistry 1051**</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 three credit hours in a MUN Critical Reading and Writing course ***</td>
</tr>
</tbody>
</table>

*Students who are not eligible to take one or more of the required Fall semester courses, should speak with an academic advisor in the Academic Advising Centre.

**Students attending Grenfell Campus would normally complete Chemistry 1200/1001 in their first year.

***six credit hours are required in English; three credit hours can be replaced by any MUN Critical Reading and Writing (CRW) course.

Students should take a course load of five courses in each semester to demonstrate their ability to do so.

Contact information

For additional information please contact: pharmadmissions@mun.ca
(709) 864-2077
www.mun.ca/pharmacy
What is science?

Science has been described as a way of knowing, of finding out about ourselves and our world.

Why study science?

The Bachelor of Science (B.Sc.) degree exposes students 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. 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.

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

BACHELOR OF SCIENCE (B.SC.)

Students can indicate their intention to study a B.Sc. program when completing the General Application for Admission to Memorial University. The B.Sc. degree (general or honours) requires the completion of 120 credit hours chosen to satisfy the general regulations for the degree. In the Faculty of Science, it is necessary to declare a major program and it is optional to declare a minor program. Science students are strongly encouraged to choose the subject of their major program after finishing their first year of study. During their first year of university, students should contact the department of their proposed major for academic advice on program choices and course scheduling.

**Major programs are offered in:**

- behavioural neuroscience
- biochemistry
- biology
- chemistry (including computational and biological)
- computer science (including visual computing and gaming, and smart systems)
- Earth sciences
- economics
- environmental physics
- geography
- marine biology (joint major)
- mathematics (pure and applied) and statistics
- nutrition
- ocean physics
- ocean sciences (including environmental systems)
- physics
- psychology
Minor programs are offered in:

- biochemistry
- biology
- chemistry
- computer science
- Earth sciences
- economics
- geography
- mathematics
- oceanography
- physics
- psychology
- statistics
- sustainable aquaculture and fisheries ecology

Students completing a BSc may also complete a minor in one of the following:

- humanities and social sciences (subjects where minor programs are available)
- business
- music
- engineering and applied science (for chemistry and physics majors)

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.

Contact information:

For additional information please contact: science@mun.ca
Biochemistry
www.mun.ca/biochem

Students pursuing a B.Sc. with a major in biochemistry will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (1090)*</td>
<td>Mathematics 1001 (1000)*</td>
</tr>
<tr>
<td>Chemistry 1050**</td>
<td>Chemistry 1051**</td>
</tr>
<tr>
<td>Physics 1050 (1020)**</td>
<td>Physics 1051 (1021)**</td>
</tr>
<tr>
<td>Biology 1001 or elective</td>
<td>Biology 1002 or elective</td>
</tr>
<tr>
<td>English 1090****</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

* 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. Students completing Mathematics 1090/1000 will also be required to complete Mathematics 1001.

**Students who are not eligible to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester and Chemistry 1050 in the Winter semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

*** Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). Students registered in Physics 1051 must also be registered in Mathematics 1001.

**** 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.

Notes:

1. Entry to the biochemistry major program is based on academic standing. To be considered for admission to the program, students must have completed a minimum of 30 credit hours including the following courses (or their equivalents) with a minimum overall average of 60 per cent:
   - Mathematics 1000, 1001 (or 1090, 1000)
   - Chemistry 1050, 1051 (or 1010, 1050) (see note three)
   - Physics 1050, 1051 (or 1020, 1021) or

   Biology 1001, 1002
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses

2. Biochemistry majors are required to complete Biology 1001/1002, which may be taken in place of physics in their first year. However, it is recommended that both physics and biology courses be taken in the first year (with no elective).

3. In order to complete the biochemistry major within four years, there are some things students need to know about completing the first-year chemistry courses.

   - Students MUST be eligible for Chemistry 2400 in the Fall semester of second year. The prerequisite for Chemistry 2400 is a minimum of 60 per cent in Chemistry 1051 or Chemistry 1001 (Grenfell) with a grade of at least 65 per cent.

   - All biochemistry majors MUST pass Chemistry 1051 with a grade of 60 per cent or Chemistry 1001 with a grade of 65 per cent 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.

4. Students registering for Mathematics 1000 in the Fall semester should take Physics 1050 as their first Physics course. 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.

5. Applicants to the biochemistry major are strongly recommended to apply for admission by May 31 of their first year. Failure to apply by this date may result in a student’s application not being processed before their registration time.

Contact information:

For additional information please contact:
bcadvice@mun.ca
Nutrition
www.mun.ca/biochem

Students pursuing a B.Sc. with a major in nutrition will normally take the following courses in their first year:

Sample Program

<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>Chemistry 1050**</td>
<td>Chemistry 1051**</td>
</tr>
<tr>
<td>Physics 1020 (1050)***</td>
<td>Physics 1021 (1051)***</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>English 1090****</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

* 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. Students may complete Mathematics 1000 in the Fall semester and an elective in the Winter semester.

** Students who are not eligible to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester and Chemistry 1050 in the Winter semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

*** Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). Students registered in Physics 1051 must also be registered in Mathematics 1001.

**** 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.

Notes:

1. Entry to the nutrition major program is based on academic standing. To be considered for admission, you must have at least 30 credit hours and have successfully completed the following courses (or their equivalents) with a minimum overall average of 60 per cent:
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses
   - Mathematics 1090, 1000 (or Mathematics 1000 and an elective)
   - Chemistry 1050, 1051 (or 1010, 1050) (see note two)
   - Physics 1020, 1021 (or 1050, 1051) or Biology 1001, 1002

2. In order to complete the nutrition major within four years, there are some things students need to know about completing the first-year chemistry courses.
   a. Students MUST be eligible for Chemistry 2400 in the Fall semester of second year. The prerequisite for Chemistry 2400 is a minimum of 60 per cent in Chemistry 1051 or Chemistry 1001 (Grenfell) with a grade of at least 65 per cent.
   b. 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 intending to major in nutrition are strongly recommended to apply for admission by May 31 of their first year. Failure to apply by this date may result in a student’s application not being processed before their registration time.

Contact Information:

For additional information please contact: bcadvice@mun.ca
Biology
www.mun.ca/biology

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

The following courses are recommended for students in their first year:

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090*</td>
<td>Mathematics 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>Physics 1020 (1050)***</td>
<td>Physics 1021 (1051)</td>
</tr>
<tr>
<td>English 1090****</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

* 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. For biology majors, the mathematics requirement is Mathematics 1000. Students who take Mathematics 1000 in their first semester will be able to take an extra first-year elective that can be counted towards the entrance requirements for the biology major program. However, many students elect to take Mathematics 1090 in preparation for Mathematics 1000.

** All biology majors are required to complete Chemistry 1050/1051. Students who are not eligible to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester and Chemistry 1050 in the Winter semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

*** Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090)

**** Students are required to complete six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English. Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.

**Notes:**

1. To be admitted to a biology major program, students must obtain an average of 65 per cent in Biology 1001 and 1002 and have a minimum overall average of 60 per cent in the following courses (or their equivalents):

   - Mathematics 1090, 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 courses
   - Chemistry 1050/1051 or Physics 1020/1021 or Physics 1050/1051 or Physics 1020/1051

2. Students intending to major in a biology major program must submit a departmental application form to the Department of Biology (available online). Forms are usually submitted during the second semester. Students will not be admitted to a biology major program until they have met the entrance requirements above.

3. In order for a biology major program to be completed in eight semesters, the two first-year chemistry courses must be completed in first year as they are prerequisites for courses normally taken in the second year by biology majors.

4. The two first-year physics courses are also required for a major in biology and should be completed in first year in order to avoid timetable conflicts that may arise in year two.

**Contact information**

For additional information please contact: jodyb@mun.ca
Joint Major in Marine Biology

Students pursuing a Bachelor of Science with a joint major in marine biology will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester*</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<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 &amp; writing (CRW) course</td>
</tr>
<tr>
<td>Mathematics 1000****</td>
<td>Ocean Sciences 2000 level</td>
</tr>
<tr>
<td>Ocean Sciences 1000</td>
<td>Physics 1020 (or 1050)</td>
</tr>
</tbody>
</table>

* If a student is not eligible to take one or more of the required courses in the Fall semester they should speak with an academic advisor.

** Students who are not eligible to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester and Chemistry 1050 in the Winter semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

*** 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.

**** 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.

Notes:

1. To be admitted to the joint major in marine biology, students will normally have completed the following 30 credit hours (or their equivalents) with an overall average of at least 60 per cent:
   - Biology 1001 and 1002 with an average grade of 65 per cent
   - 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 courses
   - Mathematics 1000
   - Ocean Sciences 1000 with a minimum grade of 65 per cent
   - Physics 1020 (or 1050)
   - Physics 1021 (or 1051) or one Ocean Sciences course at the 2000 level

2. Students should be aware that delaying some of the above courses, particularly Chemistry 1050/1051, until second year may make it difficult to complete the program in the normal four years.

3. Students intending to declare a joint major in marine biology must submit a departmental application form to the Department of Biology (available online) and the Department of Ocean Sciences. Forms are usually submitted during the second semester. Students will not be admitted to the joint major until they have met the entrance requirements above.

Contact information

For additional information please contact: jodyb@mun.ca or ocean@mun.ca
Chemistry
www.mun.ca/chem

Students pursuing a B.Sc. with a major in chemistry 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)*</td>
<td>Mathematics 1001 (1000)*</td>
</tr>
<tr>
<td>Chemistry 1050**</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>Physics 1050</td>
<td>Physics 1051</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>elective****</td>
<td>elective****</td>
</tr>
</tbody>
</table>

*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. Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well. Mathematics 1001 can be taken during the Spring semester in order to enable chemistry majors to take Chemistry 2301 in the Fall semester of their second year.

** 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.

*** 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.

****Students wishing to major in computational chemistry should take Computer Science 1001 (Fall) and Computer Science 1510 (Winter) or vice versa, in place of the electives in the sample first-year program.

Notes:

1. Admission to the chemistry major program normally requires students to complete 30 credit hours including:
   - six credit hours in chemistry
   - six credit hours in mathematics
   - six credit hours in physics is recommended although another science subject other than mathematics is acceptable
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses
   - Exceptional students may be accepted as chemistry majors after one semester.

2. Students wishing to major in chemistry should show an aptitude for science and are expected to achieve a 65 per cent average or better in their first-year chemistry, mathematics and physics courses. Students are encouraged to complete these courses in their first two semesters.

3. Students considering a major in chemistry are encouraged to meet with the Deputy Head Undergraduate Studies, Dr. Chris Flinn, as early as possible to discuss the programs offered by the Department of Chemistry and the possibility of declaring a chemistry major.

4. Information on the degrees offered by the Department of Chemistry, including the chemistry major and honours degrees and degrees in Computational chemistry, Chemistry (Biological) and various joint honours degrees, can be found at www.mun.ca/chem/Undergraduate_Students/Chemistry_Degree_Options/Chemistry_Biological_General/Index.php

Contact information:

For additional information please contact:
chemhead@mun.ca
Students pursuing a B.Sc. with a major in computer science will normally take the following courses in their first year:

**Sample Program A**

<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>Computer Science 1001</td>
<td>Computer Science 1002</td>
</tr>
<tr>
<td>English 1090</td>
<td>Computer Science 1003</td>
</tr>
<tr>
<td>science elective</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>elective</td>
<td>science elective</td>
</tr>
</tbody>
</table>

* 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.

**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.**

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**Admission to the computer science major**

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 to a Bachelor of Science program in computer science, 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 three credit hours in English courses
- Mathematics 1000 and 1001 (or 1090 and 1000)
- six credit hours to satisfy the second science requirement.

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.

**Contact information:**

For additional information please contact: [cs-compsci@mun.ca](mailto:cs-compsci@mun.ca)
Dietetics
www.mun.ca/biochem/dietetics/dietetics_info.php

Under the terms of a memorandum of understanding between Memorial University and Acadia University, selected students are able to complete the first two years of Acadia University’s Bachelor of Science (B.Sc.) in Nutrition (Dietetics Option) at Memorial University and complete the final two years of the program at Acadia University.

Selection for this program is competitive and is limited to 10 qualified students each year. Students who are interested in pursuing this program must first complete 30 credit hours of prescribed courses from Memorial University before applying to the selection competition for the program.

Students pursuing a program in dietetics will normally take the following courses in their first year:

Sample program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090 (1000)*</td>
<td>Mathematics 1000 (Statistics 2500)*</td>
</tr>
<tr>
<td>Chemistry 1050**</td>
<td>Chemistry 1051**</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Nutrition 2323***</td>
</tr>
<tr>
<td></td>
<td>(through Acadia online)</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>English 1090****</td>
<td>English 1191, 1192, 1193 or 1110</td>
</tr>
</tbody>
</table>

* 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. Students who complete Mathematics 1000 in the Fall semester may register for Statistics 2500 in the Winter semester.

**Students who are not eligible to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester and Chemistry 1050 in the Winter semester. Students attending Grenfell Campus will normally complete Chemistry 1200/1001 in their first year.

*** Students must apply to Acadia University to study Nutrition 2323 through Acadia Online.

****Students attending Grenfell Campus will normally complete English 1000/1001 in their first year.

Contact information:

For additional information please contact: Mr. Barry Walters, Dietetics Co-ordinator Science Building Room, SN 1037 bwalters@mun.ca (709) 864-2645
Students pursuing a B.Sc. with a major in Earth Sciences will normally take the following courses in their first year:

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (1090)*</td>
<td>Mathematics 1001 (1000)*</td>
</tr>
<tr>
<td>Chemistry 1050**</td>
<td>Chemistry 1051**</td>
</tr>
<tr>
<td>Physics 1020 (1050)***</td>
<td>Physics 1021 (1051)***</td>
</tr>
<tr>
<td>Earth Sciences 1000</td>
<td>Earth Sciences 1002</td>
</tr>
<tr>
<td>English 1090****</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

*Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

** Students who are not eligible to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester and Chemistry 1050 in the Winter semester. Students attending Grenfell Campus for the first year of the program will normally complete Chemistry 1200/1001.

*** Students pursuing a geophysics specialization within Earth Sciences will be required to complete Physics 1051. Students who complete Physics 1020 with at least 70 per cent should take Physics 1051. Students registered in Physics 1051 must also be registered in, or have previously completed, Mathematics 1001. Students who receive a grade less than 70 per cent in Physics 1020 should take Physics 1021. Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

****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.

**Notes:**

1. To be formally admitted to major programs in Earth Sciences, students must have successfully completed three first-year credit hours in each of the following departments: English, mathematics, chemistry, physics, and Earth sciences.

2. Students are encouraged to contact the Department of Earth Sciences to declare their major in the second semester of their first year.

3. Registration for the core second-year courses in Earth sciences normally requires that all of the first year courses be completed. It is possible to take Mathematics 1001 as a co-requisite with second year courses in the fall of the second year of the program.

4. Students undertaking a major or minor in Earth Sciences should note that a minimum grade of 55 per cent in Earth Sciences 1000 and 1002 is required for all courses in second year that have these courses as prerequisites.

5. It is essential that students plan their first year of study with care and consult the departmental web page.

**Contact information**

For additional information please contact: mmiskell@mun.ca
Students pursuing a B.Sc. with a major in economics will normally take the following courses in their first year:

**Sample Program**

<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 (1090)*</td>
<td>Mathematics 1001 (1000)*</td>
</tr>
<tr>
<td>Computer Science 1000</td>
<td>three credit hours in computer science</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

* 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. Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

** 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.

**Notes:**

1. To be admitted to the economics major program, students must complete 30 credit hours which must include:
   - six credit hours in Critical Reading & Writing (CRW) courses, including at least three credit hours in English courses
   - six credit hours in mathematics
   - six credit hours in economics
   - six credit hours in a second science subject, other than mathematics and economics.

2. Students should contact the Department of Economics upon completion of these courses to declare their major program.

3. A co-op. program is available to majors in economics.

**Contact information:**

For additional information please contact: economics@mun.ca
Geography
www.mun.ca/geog

Students pursuing a B.Sc. with a major in geography will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090*</td>
<td>Mathematics 1000*</td>
</tr>
<tr>
<td>Geography 1050</td>
<td>Geography 2000 level</td>
</tr>
<tr>
<td>English 1090**</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

*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. Students may complete Mathematics 1000 in the Fall semester and an elective in the Winter semester; or Mathematics 1050 and 1051 for students completing a Bachelor of Arts degree.

**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.

Notes:
1. To be considered for admission to the Geography major program, students should complete 30 credit hours, including:
   - Geography 1050
   - at least three credit hours in 2000 - level Geography courses (six credit hours are recommended if possible)
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English
   - at least three credit hours in mathematics
2. Students should contact the Department of Geography to discuss and declare their major program.
3. 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 additional information please contact: geog@mun.ca
Mathematics and Statistics
www.mun.ca/math

Students pursuing a B.Sc. with a major in applied mathematics, pure mathematics or statistics will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or 1090* or 1001**)</td>
<td>Mathematics 1001 (or 1000* or 2000 and/or 2050**)</td>
</tr>
<tr>
<td>Physics 1050 (or 1020)** ***</td>
<td>Physics 1051 or Statistics 1510 ***</td>
</tr>
<tr>
<td>English 1090****</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>science elective*****</td>
<td>science elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

*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. Students completing Mathematics 1090/1000 are required to complete Mathematics 1001 as well.

**Students who pass the CPT may take Mathematics 1001 in their first semester and 2000 and/or 2050 in their second semester.

*** 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. Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). Students who complete Physics 1020 with at least 70 per cent should take Physics 1051. Otherwise, they should take Physics 1021 in the second semester.

****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.

*****Mathematics majors should complete a computer programming course such as Computer Science 1510 or 1001 in one of their first three semesters.

Notes:

1. To be admitted to the major program, students must complete 30 credit hours which must include:
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses
   - six credit hours in mathematics
   - six credit hours in courses from each of two sciences other than mathematics

2. Students should contact the Department of Mathematics and Statistics upon completion of these courses to declare their major program.

Contact information:

For additional information please contact: mathstat@mun.ca
Ocean Sciences  
www.mun.ca/osc/

Students pursuing a Bachelor of Science with a major in ocean sciences will normally take the following courses in their first year:

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester *</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<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 &amp; writing (CRW) course</td>
</tr>
<tr>
<td>Mathematics 1000***</td>
<td>Physics 1020 (or 1050) or three credit hours in ocean sciences at the 2000 level</td>
</tr>
<tr>
<td>Ocean Sciences 1000</td>
<td>Earth Sciences 1000</td>
</tr>
</tbody>
</table>

*If a student is not eligible to take one or more of the required Fall semester courses, they should speak with an academic advisor.

**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.

*** 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.

**Notes:**

1. To be admitted to the ocean sciences major students must complete 30 credit hours with an overall average of at least 65 per cent, which must normally include:
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses
   - Mathematics 1000
   - Physics 1020 (or 1050) or three credit hours in Ocean Sciences at the 2000 level.
   - Chemistry 1050 and 1051 (or 1200 and 1001)
   - Biology 1001 and 1002
   - Earth Sciences 1000
   - Ocean Sciences 1000 with a minimum grade of 65 per cent.

2. Students interested in the Joint Major in Marine Biology should refer to this sample program.

3. Students should contact the Department of Ocean Sciences at the earliest opportunity to get counsel on course selection.

**Contact information:**

For additional information please contact: ocean@mun.ca.
Physics
www.mun.ca/physics

Students pursuing a B.Sc. with a major in physics, environmental physics or ocean physics will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (1090)*</td>
<td>Mathematics 1001 (1000)*</td>
</tr>
<tr>
<td>Physics 1050 (1020)**</td>
<td>Physics 1051**</td>
</tr>
<tr>
<td>Chemistry 1050***</td>
<td>Chemistry 1051</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
<tr>
<td>elective</td>
<td>Computer Science 1510 or 1001</td>
</tr>
</tbody>
</table>

* 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. Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

** Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090). Students registered in Physics 1051 must also be registered in Mathematics 1001. All students will be required to complete Physics 1051. Students who complete Physics 1050 with at least 50 per cent or Physics 1020 with at least 70 per cent should take Physics 1051.

*** Students who are not able to register for Chemistry 1050 in the Fall semester can take Chemistry 1010 in the Fall semester, 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.

***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.

Notes:

1. To be admitted to the physics major program, students must complete 30 credit hours which must include:
   - six credit hours 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

2. Students should contact the Department of Physics and Physical Oceanography upon completion of these courses to declare their major program.

Contact information:

For additional information please contact: rgoulding@mun.ca.
Students pursuing a B.Sc. with a major in psychology will normally take the following courses in their first year:

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1090*</td>
<td>Mathematics 1000*</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1050 or</td>
<td>Chemistry 1051 or</td>
</tr>
<tr>
<td>Physics 1020 (1050)**</td>
<td>Physics 1021 (1051)</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>English 1090</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

* 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. Students who complete Mathematics 1000 in the Fall semester may complete an elective in the Winter semester.

** Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

***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.

Notes:

1. Admission to the major program is competitive and selective. To be eligible for admission, you must have completed 24 credit hours with an average of at least 65 per cent in Psychology 1000/1001 and an overall average of at least 60 per cent in the following courses:
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses
   - Mathematics 1000 (or 1090 and 1000)
   - Physics 1050 and 1051
   - Mathematics 1000 or two of: Mathematics 1090, 1050 or 1051
   - Psychology 1000, 1001

Meeting these minimum criteria does not guarantee admission to the program.

2. Students intending to major in psychology must submit an application form to the department by June 1 for Fall semester. Forms are available online, www.mun.ca/psychology/undergrad/forms.php.

3. Students should think carefully about whether to take Physics 1020 and 1021, or Physics 1050 and 1051. In particular, students should examine the prerequisite for other courses to see which courses best suit their interests and program of study. Picking one of these sequences may restrict your options later on.

Contact information:

For additional information please contact: psych@mun.ca
Behavioursal Neuroscience
www.mun.ca/psychology

Students pursuing a B.Sc. with a major in behavioural neuroscience will normally take the following courses in their first year:

Sample Program

<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>any two of: Biology 1001, Chemistry 1050 or Physics 1020 (1050)**</td>
<td>any two of: Biology 1002, Chemistry 1051 or Physics 1021 (1051)</td>
</tr>
<tr>
<td>see Notes 3-5</td>
<td>see Notes 3-5</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>English 1090***</td>
<td>critical reading &amp; writing (CRW) course</td>
</tr>
</tbody>
</table>

* 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. Students completing Mathematics 1090/1000 will be required to complete Mathematics 1001 as well.

** Students registered in Physics 1050 must also be registered in Mathematics 1000 (not 1090).

*** 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.

Notes:

1. Admission to the program is competitive and selective. To be eligible for admission you must have completed 24 credit hours with an average of at least 65 per cent in Psychology 1000/1001 and an overall average of at least 60 per cent in the following courses:
   - six credit hours in Critical Reading and Writing (CRW) courses, including at least three credit hours in English courses
   - Mathematics 1000 or Mathematics 1090 and 1000
   - Psychology 1000, 1001

Meeting these minimum criteria does not guarantee admission to the program.

2. Students intending to major in behavioural neuroscience must submit an application form to the Department of Psychology by June 1 for Fall semester. Forms are available online at: www.mun.ca/psychology/undergrad/forms.php

3. Students interested in pursuing a B.Sc. in behavioural neuroscience should think very carefully about which courses they take in their first year. Those interested in a joint program or a minor program will need to be aware of the recommended second year courses.

4. Selection of higher level courses is often dependent on completing the prerequisite for these courses in first year. Students should plan their first year carefully to ensure that program requirements for behavioural neuroscience can be accomplished in a timely fashion. Students may wish to take chemistry and physics in Year 1 and biology in Year 2. Others may wish to take biology in Year 1 and either physics or chemistry in Year 2.

5. Students are advised to consult with the Department of Psychology or the Academic Advising Centre about whether to take Physics 1020 and 1021, or Physics 1050 and 1051. Picking one of these sequences may restrict your options later on.

Contact information:

For additional information please contact:
psych@mun.ca
Why study social work?

The Bachelor of Social Work (BSW) qualifies the graduate for beginning professional practice in Social Work. The aim of the BSW program is to develop social workers with generically based skills for working with individuals, families, communities, and groups. BSW graduates are prepared to practice in a variety of settings. These practice areas may include child welfare, health care, mental health and addictions, corrections within community organizations, healthcare or government settings.

Areas in which students will be educated include:

- assessment
- interviewing
- counselling
- advocacy
- program/policy analysis
- case management
- community capacity building.

Students receive an education which prepares them to work in urban centres and rural settings. A special emphasis is placed on the importance of identifying local needs and developing the means of meeting these needs in the context of available resources.

The objectives of the undergraduate program are to prepare students to:

- promote social justice and social well-being and creatively challenge oppression
- acquire and apply knowledge, skills, values, professional ethics and critical thinking abilities
- recognize limitations and strengths as a beginning social work practitioner
- integrate reflexively critical self-awareness
- assume leadership in collaboration and interdisciplinary practice
- utilize and participate in innovative and traditional inquiry and research models
- creatively practice with diverse individuals and collectives
- promote and critique the social work profession on regional, provincial, national and global levels
- commit to the process of lifelong learning
- participate collaboratively and respectfully in innovative teaching and learning processes
- address issues of transition and crisis in diverse contexts (individuals, families, groups, communities, formal organizations and society).

Admission Deadline

Candidates for a Bachelor of Social Work degree must apply by March 1 of the year in which admission is sought.

BACHELOR OF SOCIAL WORK AS A FIRST DEGREE

Admission to the BSW as a first degree program is competitive and takes place annually with a start date in the Fall semester.

A candidate for the Bachelor of Social Work as a First Degree must complete 75 professional education credit hours from the School of Social Work and 45 general education credit hours from Complementary Studies. Included in the 75 credit hours of the required professional education courses are two field practica (formerly known as internships): one field practicum in the third year (12 credit hours) and one in the fourth year (12 credit hours). Students are expected to be available for field practica anywhere within the province of Newfoundland and Labrador. Field practica are designed to provide students with a broad experience of social work in diverse practice settings.

Admission Requirements:

Applicants must have:

- achieved an average of at least 65 per cent in the courses comprising the last 30 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 30 credit hours of required prerequisite courses outlined in the sample program on the next page by the end of the Winter semester for the year in which admission is being sought and must have achieved a minimum grade of 65 per cent in each of these required prerequisite courses
- completed a minimum of 60 hours of verified work experience/volunteer experience and/or community involvement in human services that relates to social work.
Students pursuing a Bachelor of Social Work will normally take the following courses in their first year:

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Learning Objective One*</td>
<td>Learning Objective One*</td>
</tr>
<tr>
<td>Learning Objective Two*</td>
<td>Learning Objective Six*</td>
</tr>
<tr>
<td>Learning Objective Four*</td>
<td>Learning Objective Two – Six*</td>
</tr>
<tr>
<td>Learning Objective Five*</td>
<td>Learning Objective Two – Six*</td>
</tr>
<tr>
<td><strong>Social Work 1710</strong></td>
<td>Learning Objective Two – Six*</td>
</tr>
</tbody>
</table>

*Note: see the Complimentary Studies chart on page 78

The 30 credit hours of required prerequisite courses are:

- three credit hours for Social Work 1710
- 18 credit hours from the Complementary Studies courses selected for each Learning Objective listed in Table 1: Complementary Studies. Applicants are encouraged to select Complementary Studies courses with numbers that correspond to their current year of study. The exceptions are courses listed for Learning Objective One and Learning Objective Three. The required credit hours are as follows:
  - Learning Objective One: six credit hours
  - Learning Objective Two: three credit hours
  - Learning Objective Four: three credit hours
  - Learning Objective Five: three credit hours
  - Learning Objective Six: three credit hours
- nine additional credit hours chosen from the approved courses listed for the Complementary Studies Learning Objectives Two to Six.

**BACHELOR OF SOCIAL WORK AS A SECOND DEGREE**

Admission to the BSW as a second degree program is competitive and takes place annually with a start date in the Fall semester.

The Bachelor of Social Work as a Second Degree (BSW) 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 that relates to social work.

The program is delivered over four, full-time semesters (Fall, Winter, Fall, Winter) and commences in the Fall semester. This includes a combination of course work and two field practica (formerly knowns as internships). Students are expected to be available for field practica anywhere within the province of Newfoundland and Labrador.

**Admission Requirements:**

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
- achieved an average of at least 70 per cent 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 the 30 credit hours of required prerequisite courses outlined below by the end of the Winter semester for the year in which admission is being sought and must have achieved a minimum grade of 70 per cent in each of these required prerequisite courses. These courses and credits must have been taken at Memorial or accepted for transfer credit from a recognized university or university college.
- completed a minimum of 300 hours of verified work experience/volunteer experience and/or community involvement in human services that relates to social work.
The 30 credit hours of required prerequisite courses are:

- three credit hours for Social Work 1710
- 21 credit hours from the Complementary Studies courses selected for each Learning Objective listed in Table 1: Complementary Studies. The required credit hours are as follows:
  - Learning Objective One: six credit hours or six credit hours in English
  - Learning Objective Two: three credit hours
  - Learning Objective Three: three credit hours
  - Learning Objective Four: three credit hours
  - Learning Objective Five: three credit hours
  - Learning Objective Six: three credit hours
- three additional credit hours chosen from the approved courses listed for the Complementary Studies Learning Objectives Two to Six
- three additional credit hours from Psychology courses listed in Learning Objective Two

Selection for the BSW Program is based on the following Criteria:

<table>
<thead>
<tr>
<th>Admissions Scoring Criteria*</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic</td>
<td>70 %</td>
</tr>
<tr>
<td>Experience</td>
<td>30%</td>
</tr>
</tbody>
</table>

* The percentage is subject to change each year. Applicants may check the School of Social Work’s website in the Fall semester for an update on the application process and scoring criteria.

The School of Social work does not recommend a specific experience to applicants or what types of experience to pursue. Experience can include any work/volunteer/community involvement experience in human services that relates to social work. Applicants can include experiences that are unpaid or paid. When assessing experience, the Admissions Committee considers a variety of factors, including: relevance, richness of experience, influence, motivation, suitability, number of hours, and diversity.

Please note that the criteria used for selection is subject to change annually.

Applicants will normally be notified of admissions decisions by the end of June through the student’s MUN email account.

Visit the School of Social Work’s FAQ page for helpful information for prospective applicants.

Contact information

For additional information please contact: bsuinquiries@mun.ca
www.mun.ca/socwrk/home/
Twitter: @MUNScwk
Facebook: MUNScwk
### Table 1: Complementary Studies

Please note that additional courses may be approved by the Associated Dean, Undergraduate Programs. See the [School of Social Work’s website](#) for recent additions to Complementary Studies.

<table>
<thead>
<tr>
<th>Learning Objective</th>
<th>The Six Learning Objectives</th>
<th>Approved Disciplines and Course Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>One</td>
<td>Students will develop university knowledge and skills in critical reading, writing, and analysis.</td>
<td>Critical Reading and Writing (CRW) courses chosen from the following disciplines: Archaeology, History, English*, Philosophy, Folklore, Political Science, Gender Studies, Religious Studies</td>
</tr>
<tr>
<td>Three</td>
<td>Students will develop foundational knowledge and understanding of historical and contemporary experiences of Indigenous peoples of Canada.</td>
<td>Anthropology 2414* Anthropology 1005 (or History 1005*), 2482 English 2160 Gender Studies 3015 History 2800*, 3520*, 3525* Humanities 3100* Law and Society 3012, 3014 Linguistics 2022, 2060 Political Science 3830 Religious Studies 3880* Sociology 4205</td>
</tr>
<tr>
<td>Five</td>
<td>Students will develop foundational knowledge in governance and policy-making.</td>
<td>Gender Studies 3500 Humanities 1002*, 2000*, 2002* Law and Society 1000, 2000, 3012, 3014, 3015, 3016, 3300 Police Studies 1000, 2200, 2300, 3000, 3100, 3306, 3395 Political Science 1000, 1010, 1020, 2600*, 2800, 3140, 3610, 3620, 3650, 3800, 3820, 3830, 3870, 3880, 3890 Sociology 3306, 3395, 4208</td>
</tr>
<tr>
<td>Six</td>
<td>Students will develop a critically reflective understanding of contemporary society (locally, nationally, and globally) and their place in it.</td>
<td>Anthropology 1031*, 2413*, 3058, 3318 Archaeology 2482 English 3810 History 2665, 3120*, 3760*, 3770, 3813, 3821, 4253 Humanities 1002*, 2002*, 4001* Philosophy 1005* or the former 1600*, 2020 or the former 2220, 2100* or the former 2551*, 2110 or the former 2553, 2120 or the former 2552, 2320 or the former 2541, 2370 or the former 2400 Religious Studies 1000, 2610 Social/Cultural Studies 2000* Sociology 1000*, 2100, 2110, 2120*, 2200*, 2210*, 2220, 2230*, 2240, 2250, 2270*, 3130, 3140*, 3210, 3290, 3307, 3311, 3318, 3400, 3420</td>
</tr>
</tbody>
</table>

* These courses are available at Grenfell Campus

Note: Courses for Complementary Studies are counted only once even if they are listed for more than one Learning Objective or cross-listed with another department.

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**DEGREE PROGRAMS: APPLICATION AND ADMISSION INFORMATION**

The chart below is for general information purposes only. Additional program information is offered in this FYI as indicated. Admission to all degrees is subject to general and program application and admission regulations. Consult the University Calendar to confirm application deadline(s), semester and campus availability, and general and academic unit regulations including application and admission requirements.

<table>
<thead>
<tr>
<th>Degree Program</th>
<th>Arts</th>
<th>Business Administration</th>
<th>Environment and Sustainability</th>
<th>Fine Arts (Theatre or Visual)</th>
<th>Nursing</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct entry available to applicants meeting minimum general admission requirements</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program entry available in any semester</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td></td>
<td>•</td>
<td></td>
</tr>
<tr>
<td>Program entrance determined by faculty or school</td>
<td></td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
<td>*</td>
</tr>
<tr>
<td>May complete the first year or admission requirements at either campus. Restrictions on campus transfer may apply</td>
<td>•</td>
<td>•</td>
<td></td>
<td></td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Students must complete courses at university before applying to these programs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>See these pages for additional program information</td>
<td>81</td>
<td>84</td>
<td>85</td>
<td>86</td>
<td>54</td>
<td>87</td>
</tr>
</tbody>
</table>

* Admission into a science major program is determined by the department.
Studying the arts and social sciences will enrich your life and open the way to a rewarding career. The School of Arts and Social Science empowers students by teaching them to read and think critically, to communicate with precision, and to do so while pursuing a program that suits their aspirations for learning and meaningful work. It is a school where students can immerse themselves in human knowledge and develop the skills to succeed in a dynamic and rapidly evolving economy.

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 (see below)
- an approved concentration of courses known as a **major**
- an approved concentration of courses known as a **minor** (Note: A minor is not required for interdisciplinary programs, however, students in these programs may choose to complete a minor.)
- electives

**The core program requirements include:**

- 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 1010.
- breadth of knowledge requirement (18 credit hours chosen from three groups)

**Major subject areas**

At Grenfell Campus, majors are available in:
- English
- historical studies
- humanities (program under review)
- psychology*
- social/cultural studies

**Minor subject areas**

At Grenfell Campus, minors are available in:
- business
- Canadian studies
- classics
- English
- folklore
- French
- geography
- historical studies
- humanities
- philosophy
- psychology
- religious studies (program under review)
- social/cultural studies
- sociology
- tourism studies.

*Psychology can be completed as a Bachelor of Arts (honours)
**English major**

Students pursuing an English major will normally take the following courses in their first year:

**Sample Program**

<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>course in minor area</td>
<td>course in minor area</td>
</tr>
<tr>
<td>designated</td>
<td>designated</td>
</tr>
<tr>
<td>quantitative reasoning</td>
<td>quantitative reasoning</td>
</tr>
<tr>
<td>and analysis (QRA)</td>
<td>and analysis (QRA) course</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities for graduates:
- copywriter
- teacher
- public relations officer
- playwright/novelist
- journalist.

**Contact information**

For additional information please contact:
Dr. Holly Pike
hpike@grenfell.mun.ca

**Historical Studies major**

Students pursuing a historical studies major will normally take the following courses in their first year:

**Sample Program**

<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</td>
<td>designated</td>
</tr>
<tr>
<td>quantitative reasoning</td>
<td>quantitative reasoning</td>
</tr>
<tr>
<td>and analysis (QRA)</td>
<td>and analysis (QRA) course</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities for graduates:
- law
- journalism
- public administration
- education
- museum/archival studies
- library and information science
- graduate studies
- public policy.

**Contact information**

For additional information please contact:
Dr. Edwin Bezzina
ebezzina@grenfell.mun.ca
Psychology major

Students pursuing a psychology major will normally take the following courses in their first year:

Sample Program

<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>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities for graduates:

- 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.

Contact information

For additional information please contact:
Dr. Peter Stewart
pstewart@grenfell.mun.ca

Social/Cultural Studies major

Students completing a social/cultural studies major will normally take the following courses in their first year:

Sample Program

<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>Folklore 1000</td>
<td>designated quantitative reasoning and analysis (QRA) course</td>
</tr>
<tr>
<td>Sociology 1000</td>
<td>Anthropology 1031</td>
</tr>
<tr>
<td>Social/Cultural Studies 2000</td>
<td>elective</td>
</tr>
<tr>
<td>elective</td>
<td>elective</td>
</tr>
</tbody>
</table>

Possible career opportunities for graduates:

- social research
- governmental and non-governmental organizations
- social policy
- healthcare and medicine
- community and rural development
- public relations
- law
- education
- journalism
- cultural heritage preservation and promotion
- cultural tourism
- social work
- human resources
- criminology/policing.

Contact information

For additional information please contact:
Dr. John Bodner
jbodner@grenfell.mun.ca
Grenfell Campus offers an undergraduate degree program in business administration as well as a minor program for students completing other degrees.

To qualify for the degree of Bachelor of Business Administration (BBA) at Grenfell Campus, students must complete 120 credit hours subject to core program and specific BBA program requirements.

Specific BBA requirements include:

- 72 credit hours in core program requirements
- 15 credit hours to satisfy program’s business elective requirements
- 33 credit hours in elective courses to make up the total of 120 credit hours.

Students may choose to complete a minor program from the Division of Arts, Science, or Social Science, although a minor is not required.

To be admitted to the BBA program, students should select this option on their Undergraduate Application for Admission/Readmission.

Business students will normally take the following courses in their first year:

**Sample Program**

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1052 (or 1000*)</td>
<td>non-business elective*</td>
</tr>
<tr>
<td>English 1000</td>
<td>three 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>

*Students choosing to complete Mathematics 1000 may be required to complete Mathematics 1090 as a prerequisite.

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.

**Contact Information**

For additional information please contact:
Lynn Kendall
l kendall@grenfell.mun.ca
Bachelor in Environment and Sustainability is a new degree program that offers two majors, Environmental Studies and 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 a field course (usually at the Bonne Bay Marine Station; www.bonnebay.ca) and our outdoor pursuits courses.

Careers include but are not limited to:

- environmental consulting
- natural resources policy analyst
- conservation officer
- environmental education
- environmental impact assessment.

Major in Environmental Studies

**Sample Program**

<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>
</tbody>
</table>

**Major in Resource Management**

**Sample Program**

<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>
</tbody>
</table>

**Contact Information**

For additional information please contact:
Dr. Gabriela Sabau
gsabau@grenfell.mun.ca
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 BFA (Theatre) program will normally take the following courses in their first year:

Sample Program

<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></td>
</tr>
</tbody>
</table>

Contact Information:

Michael Waller,
mwaller@grenfell@grenfell.mun.ca

FINE ARTS (VISUAL)

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 BFA (Visual Arts) will normally take the following courses in their first year:

Sample Program

<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>Visual Arts 2700*</td>
<td>Visual Arts 2701*</td>
</tr>
<tr>
<td>Visual Arts 1911</td>
<td></td>
</tr>
<tr>
<td>Nine credit hours in studio courses</td>
<td>Nine credit hours in studio courses</td>
</tr>
</tbody>
</table>

*Denotes Art History/Visual Culture course

Contact Information:

Gerard Curtis
gcurtis@grenfell.mun.ca
What is the School of Science and the Environment?

The physical, natural, and social sciences, along with computational mathematics, form the foundation for understanding our environment and the world. The powerful combination of these disciplines will prepare graduates of our programs for diverse interdisciplinary careers in societies around the world.

For the Bachelor of Science and the Bachelor of Environment and Sustainability degrees, students must complete a minimum of 120 credit hours made up of the following components:

- **core** program requirements (see below)
- an approved concentration of courses known as a **major**
- an approved concentration of courses known as a **minor**. (Note: 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

**The core program requirements include:**

- 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: economies, environment and sustainability, geography or political science.

The School of Science and the Environment offers the following programs:

**Major programs areas**

- computational mathematics
- environmental science (biology)
- environmental science (chemistry)
- general science
- physics
- psychology

**Minor program areas**

- environmental science
- environmental science (biology)
- environmental science (chemistry)
- environment and sustainability
- economics
- mathematics
- physics
- science

**Notes:**

1. Year 1 of the Bachelor of Engineering program is offered through Grenfell.

2. Articulation agreements are available for:
   - BSc with major in Environmental Science for Graduates of the Three-Year Environmental Technology Diploma Program Offered by the College of the North Atlantic
   - 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 Mathematics  
www.grenfell.mun.ca/science/math

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.

Students pursuing a B.Sc. with a major in computational mathematics are advised to take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000 (or Mathematics 1090)*</td>
<td>Mathematics 1001 (or Mathematics 1000)</td>
</tr>
<tr>
<td>Physics 1050 (or Physics 1020)</td>
<td>Mathematics 2050</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Six credit hours in electives**</td>
<td>Computer Science 1510 elective**</td>
</tr>
</tbody>
</table>

* 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.

** 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 major  
www.grenfell.mun.ca/science/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.

Contact Information

For additional information please contact: Dr. Ian Warkentin  
ian.warkentin@grenfell.mun.ca

Dr. Robert Gallant  
rpgallant@grenfell.mun.ca
Students pursuing the B.Sc. degree with a major in environmental science will normally take the following courses in their first year:

**Biology stream**
www.grenfell.mun.ca/science/biology

Sample Program

<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 or Statistics 2550 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)*</td>
<td>Chemistry 1001 (or 1200)</td>
</tr>
<tr>
<td>Physics 1020 or 1050** or Earth Sciences 1000 or elective</td>
<td>Physics 1021 or 1051 or Earth Sciences 1002 or elective</td>
</tr>
</tbody>
</table>

*Students who complete their first year at the St. John’s campus should complete Chemistry 1050/1051 before transferring to Grenfell Campus.

** Students in the biology stream may choose to take physics in first or second year.

**Students should complete Mathematics 1001 and Physics 1021 or 1051 in their first year.

** 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 major
www.grenfell.mun.ca/science/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 B.Sc. with a general science major will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>(or 1090)</td>
<td>(or 1000)</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>first of two courses in a second laboratory science*</td>
<td>second of two courses in a second laboratory science</td>
</tr>
<tr>
<td>first of two courses in a third laboratory science*</td>
<td>second of two courses in a third laboratory science*</td>
</tr>
</tbody>
</table>

*Laboratory sciences must be chosen from the following: Biology 1001, 1002; Chemistry 1200 (or 1810**), Chemistry 1001 (or 1200); Earth Sciences 1000, 1002.

** Students taking Chemistry 1810/1200 in the Fall and Winter semesters must take Chemistry 1001 in Intersession to complete first-year requirements.

Notes:

1. The same laboratory science selected in the Fall 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.
2. Students who complete their first year at the St. John’s campus should complete Chemistry 1050/1051 before transferring to Grenfell Campus.

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:
Dr. Mano Krishnapilai
mkrishna@grenfell.mun.ca

Physics major
www2.swgc.mun.ca/physics

Students pursuing a B.Sc. with a major in physics will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Physics 1050*</td>
<td>Physics 1051</td>
</tr>
<tr>
<td>Chemistry 1200**</td>
<td>Chemistry 1001**</td>
</tr>
<tr>
<td>elective***</td>
<td>elective***</td>
</tr>
</tbody>
</table>

*A student who has completed Physics 2204 and Physics 3204 in high school and who is eligible for Mathematics 1000 should register for Physics 1050, not Physics 1020. Choosing Physics 1020 with this background might result in an extra year being required to complete the degree. A student wishing to pursue the B.Sc. with a major in physics without this background in mathematics and physics may do so by taking the sequences Physics 1020, 1021, 1051 and Mathematics 1090, 1000, and 1001.

** 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.

***The electives may be chosen from almost any discipline. It is recommended that a student interested in upper-year course work in astronomy 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:
Dr. Pierre-Michel Rouleau
prouleau@grenfell.mun.ca
Psychology major
www.grenfell.mun.ca/social-science/psychology

Students pursuing a B.Sc. with a major in psychology will normally take the following courses in their first year:

Sample Program

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Winter Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1000</td>
<td>Mathematics 1001</td>
</tr>
<tr>
<td>(or 1090)</td>
<td>(or 1000)</td>
</tr>
<tr>
<td>English 1000</td>
<td>English 1001</td>
</tr>
<tr>
<td>Psychology 1000</td>
<td>Psychology 1001</td>
</tr>
<tr>
<td>Biology 1001</td>
<td>Biology 1002</td>
</tr>
<tr>
<td>Chemistry 1200 or</td>
<td>Chemistry 1001 or</td>
</tr>
<tr>
<td>Physics 1020 (or 1050)</td>
<td>Physics 1021 (or 1051)</td>
</tr>
</tbody>
</table>

Possible career opportunities for graduates:

- 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.

Contact Information:

For additional information please contact:
Dr. Peter Stewart
pstewart@grenfell.mun.ca
## COURSE OFFERINGS BY CAMPUS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Number(s)</th>
<th>St. John’s Campus</th>
<th>Grenfell Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthropology</td>
<td>1031, 2410, 2413</td>
<td>☑</td>
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<tr>
<td></td>
<td>2411, 2412, 2415, 2416</td>
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</tr>
<tr>
<td>Archaeology</td>
<td>All Courses</td>
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<td></td>
</tr>
<tr>
<td>Art History</td>
<td>All Courses</td>
<td></td>
<td>☑</td>
</tr>
<tr>
<td>Biology</td>
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<tr>
<td>Biochemistry</td>
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<tr>
<td>Business</td>
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<td></td>
<td>1010, 1020</td>
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<tr>
<td>Chemistry</td>
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<td>Classics</td>
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<td></td>
<td>1100, 1120, 1121, 1130, 1131, 1200</td>
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<tr>
<td>Communication Studies</td>
<td>2000, 2001</td>
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<tr>
<td>Computer Science</td>
<td>All Courses</td>
<td>☑</td>
<td></td>
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<td></td>
<td>1510</td>
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<tr>
<td>Earth Sciences</td>
<td>1000, 1002, 2150</td>
<td>☑</td>
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<td>2916, 2917, 2918, 2919</td>
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<td>Economics</td>
<td>1010, 1020</td>
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<tr>
<td>Engineering</td>
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<td>English</td>
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<tr>
<td>Environment and</td>
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<tr>
<td>Environmental Science</td>
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<tr>
<td>Folklore</td>
<td>1000, 2100, 2400</td>
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<td>1005, 2401</td>
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<td>Gender Studies</td>
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<td>Geography</td>
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<td>German</td>
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<td></td>
<td>1005</td>
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## COURSE OFFERINGS BY CAMPUS

<table>
<thead>
<tr>
<th>Subject</th>
<th>Course Number(s)</th>
<th>St. John’s Campus</th>
<th>Grenfell Campus</th>
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<tbody>
<tr>
<td>HKR</td>
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<td>Humanities</td>
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<td>Law and Society</td>
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<td>Language</td>
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<td>Music</td>
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<td>Russian</td>
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<td>Sociology</td>
<td>2240, 2250, 2270, 2290, 2300</td>
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<td>Spanish</td>
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<td>Statistics</td>
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<tr>
<td>Theatre</td>
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<td>Tourism Studies</td>
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<td>University</td>
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<td>University</td>
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</tr>
<tr>
<td>Visual Arts</td>
<td>All Courses</td>
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COURSE DESCRIPTIONS
ANTHROPOLOGY

What is anthropology?

Anthropologists are interested in the comparative study of the practices, ideas, beliefs and ways of life of human groups throughout the world. Anthropology students at Memorial University learn about ways of life in diverse societies throughout human history. Courses focus on core concepts, theoretical perspectives and case studies while examining a wide range of issues, such as religion; labour; international development; the environment; and social inequality, that exist in the contemporary world.

Why study anthropology?

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

Faculty in the Department of Anthropology at Memorial are engaged in research projects in a wide range of countries and regions around the world, including Africa; Europe; Latin America; North America; and the Pacific Islands. Students of anthropology have gone on to find employment with public, private and non-government organizations in diverse fields, including: academia, public policy, print, radio, and television journalism, documentary film-making, healthcare, international development, and social and environmental activism.

Courses available in first year:

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 Social and Cultural Anthropology is an examination of selected milestone monographs, groundbreaking studies for subdisciplinary specialities and major synthesis.
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 crisis. 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 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

Contact information

For additional information please contact:
Tina Scott
anthropology@mun.ca
www.mun.ca/anthro
ARCHAEOLOGY

What is archaeology?

Archaeologists and bioarchaeologists study past human cultures through the material remains that they left behind: artifacts and features, plant and animal remains, human remains, sediments, sites, and their associated landscapes. In the Department of Archaeology, we provide our students with high quality comprehensive education on the different ways in which they can engage in practical training and experiential learning in classroom, laboratory, and field work; settings that provide a comprehensive education and transferable skills. State-of-the-art laboratories specializing in applied archaeological sciences, archaeobotany, archaeological conservation, and prehistoric, historical, and Aboriginal archaeology integrate our undergraduate students into community-university research initiatives from Northern Labrador to French Guiana and from British Columbia to Northwest Europe. As one of the largest archaeology departments in the country, we train our students to become effective researchers, critical thinkers, and active stewards for our shared archaeological heritage.

Why study archaeology?

Courses in archaeology provide a valuable background for students seeking to specialize in different fields, including cultural resource management, medicine, communications, government, education, law, heritage industries and the social and human sciences.

Courses available in first year

Archaeology 1000
Introduction to Archaeology and Bioarchaeology is a broad overview of archaeology and bioarchaeology introducing the concepts of human biological and cultural evolution and the methods and techniques by which these are investigated. The course is designed to provide the basis for further study in the discipline.
Lectures: Three hours per week or online
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 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-Aboriginal Studies features the analysis of scholarly literature, media, and other sources of knowledge related to Aboriginal and Indigenous studies. Students practice analytical reading and writing through 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: Three hours per week or 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 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 a broad number of topics, including the historical development of the discipline, techniques of survey and excavation, the main methods of archaeological analysis and the interpretation of prehistory and a number of ethical issues related to archaeological work.
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 various pre-contact civilizations of North, Central and South America. Archaeological Evidence will be used to explore the rise of civilizations in the Americas and particular civilizations will be examined and compared based on ideology, economy and administration.
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

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.

Contact information
For additional information please contact:
Dr. Oscar Moro Abadia
omoro@mun.ca
Art history is a special branch of general history that focuses on the development of different forms of art and material culture. It examines the political, social and historical circumstances that helped to produce these works.

Students are taught to recognize the many and varied artistic expressions that have developed from ancient times to the present. Such study requires no artistic ability in the student, only interest in the subject itself.

Lectures are normally accompanied by illustrations in the form of slides, videos or objects of art.

The purpose of art history is to teach the student how to understand and critically consider the dynamic and various cultural manifestations to which the arts give expression and the role the arts play in larger society.

**Visual Art 2700**
**Art History Survey I (available only at Grenfell Campus)** is the history of art from pre-historic times to the Renaissance.
Lectures: Three hours per week
Prerequisite: None

**Visual Art 2701**
**Art History Survey II (available only at Grenfell Campus)** is the history of art from the Renaissance to the 20th century.
Lectures: Three hours per week
Prerequisite: None

**Notes:**

1. Credit may not be obtained for both Visual Arts 2700 and History 2700.

2. Credit may not be obtained for both Visual Arts 2701 and History 2701.
What are biochemistry and nutrition?

Broadly speaking, biochemistry is the study of the chemistry of living systems. At Memorial, there are a number of ways in which we try to do that.

On the one hand, we study things at a small scale and ask questions about what happens inside a cell. This is molecular biochemistry. We ask questions about the structure of large molecules found in cells, such as muscle fibres and starch, or outside cells, such as lung surfactant or the matrix that holds many cells together. We also want to know about the genes that encode these molecules and how those genes are regulated in, for example, zebrafish and sea urchins.

A different perspective is offered by physiological biochemistry. In bodies such as our own, cells are organized into tissues, such as the heart, the liver, the kidneys, and muscles. Understanding the complex interplay between tissues is important for good health and well-being.

We ask questions about diabetes, heart disease and obesity, which are important health issues for us here in Newfoundland and Labrador. We ask questions about the food that we eat, about cholesterol, fats and amino acids, and how the body responds and regulates itself in response to different diets. Nutrition is the science that studies both the means by which we obtain and use foods and food components in the body, and the effects of food intake on health.

Why study biochemistry or nutrition?

Job opportunities for biochemists are available in:
- hospitals
- pharmaceutical, chemical, biotechnology, and cosmetics industries
- universities – as teachers or researchers

Nutrition graduates may be employed in:
- community education programs
- communications media
- food industry
- laboratory research

With further training students may be eligible for a career as a:
- biochemist
- medical doctor
- lawyer
- dentist
- environmental health specialist
- biotechnologist

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.

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 fulfil the requirements for a major in the Department of Biochemistry. Entry into this course is restricted to students in the BN (Collaborative) program.

Contact information

For additional information please contact: bcadvice@mun.ca
BIOLOGY

What is biology?

Biology is the study of living organisms and their attributes and includes such topics as molecular biology, cell biology, anatomy, physiology, biochemistry, systematics and ecology.

Why study biology?

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, therefore, is not only a specific and rigorous science, but also may be approached in a broader sense as a general-interest science relevant to many aspects of daily life. Our first-year courses provide an insight into biology as a scientific discipline of direct relevance to all, while at the same time allowing more detailed exploration of certain branches of the subject.

Job opportunities for biologists include but are not limited to:

- bio or medical technologist
- fisheries officer
- horticulturalist
- marine or aquacultural biologist
- medical doctor
- science teacher
- wildlife or conservation officer
- veterinarian

Biology at Memorial

The biology co-operative program is available to full-time biology majors and honours students only. The program provides an opportunity for students to learn valuable practical skills while working in the field of biological science. Students complete three work terms, which consist of full-time paid employment.

The Department of Biology offers field courses at:

- Bonne Bay Marine Station located in Gros Morne National Park
- Terra Nova National Park in Eastern Newfoundland
- Harlow, England

Our programs offer tremendous field and laboratory research experience and opportunities for undergraduates.

Courses available in first year:

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. Students must complete Science 1807 and 1808 before attending the first laboratory for this course.

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: Science 1807 and 1808; Biology 1001

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: seminars
Prerequisite: None
Note: This course is not acceptable as one of the required courses for the minor, major or honours programs in Biology

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: seminars
Prerequisite: None
Note: This course is not acceptable as one of the required courses for the minor, major or honours programs in Biology

Contact information

For additional information please contact:

jodyb@mun.ca

www.mun.ca/biology
What is business?

Business affects every aspect of society and the skills learned in our faculty will help students succeed in a wide variety of career paths.

Memorial University's Faculty of Business Administration is recognized as a leader in Canadian business education, offering innovative programs at the undergraduate and graduate levels including Bachelor of Business Administration, Bachelor of Commerce (Co-operative), International Bachelor of Business Administration, Master of Business Administration, Master of Business Administration in Social Enterprise and Entrepreneurship, Master of Employment Relations, Master of Science in Management and PhD degrees.

Graduates of the Faculty of Business Administration occupy positions of leadership in the private and public sectors provincially, nationally and internationally. They build successful careers in diverse fields such as:

- accounting
- advertising and marketing
- arts and events management
- banking and investment
- entrepreneurship
- environment and sustainability
- financial analysis
- human resources
- information systems
- management consulting
- project management
- social enterprise

Why study business?

Studies in business will provide the knowledge and real-world experience students need to become leaders in their chosen fields and to make a positive impact on the world. They will develop skills in critical thinking, explore today’s challenging economic and social issues, learn from top faculty members and use state-of-the-art technologies. Our undergraduate and graduate students excel in case competitions and are widely recognized as being some of the best teams in the world.

We offer a placement rate of 100 per cent for work term students and we have over 40 partner institutes for international exchanges.

At the Faculty of Business Administration, you begin as a student but become a leader.

Students may choose to focus their business electives in one of the following areas:

- accounting
- finance
- human resources and labour relations
- information systems
- international business
- marketing
- operational research
- resource-based industry management
- small business/entrepreneurship
- supply chain management

Course available in first year:

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

Business 1600  
Introduction to Entrepreneurship provides students with a basic understanding of entrepreneurship and its vital role in innovation and economic development. The course will explore and critique the entrepreneurship phenomenon while fostering the development of an entrepreneurial mindset and the skills and knowledge necessary for participating in the entrepreneurial process. The course will examine opportunity identification and evaluation, creative problem solving, the ability to recognize entrepreneurial potential, risk-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
Prerequisites: Business 1000, and English 1110 or 1021
Business 1010
Introduction to Business (available only at Grenfell Campus) 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 the 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 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 (available only at Grenfell Campus) 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.

Contact information
For additional information please contact:

St. John’s campus
busihelp@mun.ca
www.mun.ca/business

Grenfell Campus
Lynn Kendall
lkendall@grenfell.mun.ca
Please visit our website
What is Chemistry?

Traditionally, chemistry is described as a basic physical science whose theories, principles and laws are based on many experimentally observed facts. Chemistry is concerned with the composition, structure and properties of substances, the reactions of substances with each other and the energy changes that occur in these reactions. 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.

A basic knowledge and understanding of chemistry is imperative not only in physics and biology but also in important fields such as Earth sciences, oceanography, astronomy, environmental science and other important scientific fields. Many of these majors even require some second year courses in chemistry. The chemistry program at Memorial offers an excellent undergraduate program that helps to prepare students for a successful career in any scientific field.

Why study chemistry?

Many of our chemistry honours and majors students go on to complete professional degrees (medicine, veterinary, pharmacy, optometry, law, education, etc.), complete graduate degrees (M.Sc. or Ph.D.), or pursue careers that require the technical and problem solving skills acquired during their program of study. Job opportunities for students studying chemistry include but are not limited to:

- art conservationist
- brew master
- chemical engineer
- chemical laboratory technician
- chemistry teacher
- clinical chemist
- environmental chemist
- forensic chemist
- geochemist
- government chemist
- industrial research chemist
- patent lawyer
- petroleum chemist
- pharmaceutical chemist

Chemistry at Memorial

The Department of Chemistry offers an excellent opportunity for students interested in pursuing a career in chemistry. The strength of our majors and honours programs lies in ready access to professors, internationally recognized for their research programs; access to state-of-the-art spectroscopic and analytical instrumentation and technologies as well as high performance computing facilities such as ACEnet (The Atlantic Computational Excellence Network).

The Department of Chemistry at Memorial is recognized for excellence in both teaching and research. Students will benefit from an environment that is friendly and well-equipped to support the development of their interests in all aspects of science for their future endeavours.

Materials for Chemistry Courses

For labs, students will require a laboratory coat and laboratory glasses that are available at the MUN bookstore. The textbook used for the first year courses is “Chemistry: A Molecular Approach” 2nd CE with Mastering Chemistry by Tro, Fridgen, and Shaw. 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 first-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.

Instructions for setting up a wireless device and connecting to MUN’s wireless network are available at: [www.mun.ca/cc/services/network/wireless/3stepwirelessconnection.php](http://www.mun.ca/cc/services/network/wireless/3stepwirelessconnection.php).

For more information, please go to: [www.mun.ca/chem/Undergraduate_Students/Undergraduate_Handbook/](http://www.mun.ca/chem/Undergraduate_Students/Undergraduate_Handbook/). 

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Selecting a first-semester course

The first-year chemistry program consists of a two-course or a three-course option depending on the:

- student's level of preparedness
- campus attended

Many science degrees require students to complete General Chemistry I and II.

- Chemistry 1050/1051 (St. John’s campus)
- Chemistry 1200/1001 (Grenfell Campus)

Students should view the full list of requirements for their intended degree found in the University Calendar.

Students meeting the prerequisite for Chemistry 1050 or 1200 are strongly encouraged to take this course in the Fall semester.

Students who intend to complete these courses, but require a more introductory 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 commence a sequence on one campus are strongly advised to complete the full sequence before transferring to the other campus due to differences in course content and the distribution of topics covered in each sequence of courses.

It is important to review the requirements for your intended program. A full list of required courses for each program can be found in the University Calendar.

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.

You are invited to contact the Deputy Head, Undergraduate studies, or a faculty advisor from the chemistry department to help you make your decision.
Chemistry courses available in first year at the St. John’s campus

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 90 minute tutorials every second week.
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 course
Note: Students can receive credit for only one of Chemistry 1010 and Chemistry 1810

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, Science 1807 and 1808. It is also recommended that students have successfully completed high school Mathematics 3200 or 3201.

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 equilibria, thermodynamics, and electrochemistry.
Lectures: Three hours per week
Laboratories: Three hours per week
Prerequisite: Chemistry 1050, Science 1807 and 1808

Important information for students taking first-year chemistry courses:

1. Students must complete Science 1807 and 1808 before attending the first laboratory for your chemistry 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. Students who have completed the International Baccalaureate (IB) program and have written the international exams should consult the IB chart for possible awarding of credit.
4. Attendance in laboratories is required. Failure to attend may result in a failing grade or deregistration from the course.
5. Credit may be obtained for only one of Chemistry 1010 and 1200 (Grenfell Campus)
6. Students who plan to transfer to a program at another university are advised that they may not receive transfer credit for Chemistry 1010.
7. Credit may be obtained for only one of Chemistry 1050 and 1200 (Grenfell Campus) and one of Chemistry 1051 and 1001 (Grenfell Campus). Such courses are deemed credit restricted.

Contact information

For additional information please contact:
Dr. Chris Flinn, Deputy Head, Undergraduate Studies
cgflinn@mun.ca
Chemistry courses available in first year at the Grenfell Campus

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 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

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, and 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:
1. Students who have done well in Chemistry 3202 are strongly advised to register for Chemistry 1200
2. Chemistry 1200 and 1001 provide a superior preparation for all subsequent programs at Memorial and at other Canadian universities.
### COURSE CRITERIA CHART FOR CHEMISTRY – ST. JOHN’S CAMPUS

<table>
<thead>
<tr>
<th>Recommended course</th>
<th>Provincial Students</th>
<th>National Students</th>
<th>International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>
<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>1050</td>
<td>Chemistry 3202 with a grade of 65% or greater.</td>
<td>Grade 12/Senior Secondary Chemistry with a grade of 65% or greater</td>
<td>Grade 12/Senior Secondary Chemistry with a grade of 65% or greater</td>
</tr>
</tbody>
</table>

All first year chemistry courses involve problem solving for which mathematics is an essential component. A solid background in mathematics from high school is an important criteria for success in both Chemistry 1010 and Chemistry 1050.

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.

### COURSE CRITERIA CHART FOR CHEMISTRY – GRENFELL CAMPUS

<table>
<thead>
<tr>
<th>Recommended course</th>
<th>Provincial Students</th>
<th>National Students</th>
<th>International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>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>
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</tr>
<tr>
<td>1200</td>
<td>Chemistry 3202 or Chemistry 2202 with a grade of 75% or greater</td>
<td>Grade 12 Chemistry or Grade 11 Chemistry with a grade 75% or greater</td>
<td>Grade 12 Chemistry or Grade 11 Chemistry with a grade 75% or greater</td>
</tr>
</tbody>
</table>
What is classics?

Classics is the study of the ancient Greek and Roman cultures from which many civilizations have developed and which continue to influence and shape our modern world. In particular, it emphasizes a multi-disciplinary and holistic approach by examining the ancient Greek and Roman worlds through a diverse array of methods of inquiry such as history, language, literature, archaeology, art, science, and philosophy.

Why study classics?

There is hardly any field of human thought or activity in the western world that is not still influenced by the concepts and practices of the ancient Greeks and Romans, and there are many areas in which ancient achievements have never been equalled or surpassed. The study of classics enables us to see our own culture and traditions within a perspective that extends back almost 4,000 years. Moreover, the multi-disciplinary methodology of classics trains its students to gather, comprehend and synthesize information from a broad spectrum of sources in order to obtain a more well-rounded and complete understanding, both of the classical world and, by extension, our own.

Courses available in first year:

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 practising critical reading and writing skills, including the comprehension and analysis of primary sources and secondary literature, and effective academic composition. 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

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 1112
Introductory Latin I familiarizes students with the basics of Latin language. Students will learn how to read simple narratives and short poems in Latin and examine the connection between language and culture. Evaluation will focus largely on comprehension of written Latin. All sections of this course follow LS guidelines available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: None

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. All sections of this course follow the LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Three hours per week
Prerequisite: Classics 1120 or its equivalent
Classics 1130
Introductory 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. All sections of this course follow the LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
Lectures: Four hours per week
Prerequisite: None

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. All sections of this course follow the LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/ls.
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

Classics 1900
Scientific Terms from Greek and Latin is an overview of the Greek and Latin origins of modern 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

Contact information
For additional information please contact: www.mun.ca/classics
COMMUNICATION STUDIES

What is Communication Studies?

The study of communications addresses questions such as: What is popular culture and how does it shape society? 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?

The major and minor in Communication Studies will address these questions and others as it critically examines the role and development of communication in modern society.

Why study Communication Studies?

The major and minor in Communication Studies draw upon a variety of disciplines to provide students with a critical understanding of the role media and communication technologies play in culture and society. Courses focus on the analysis of media and communication technologies, the mass circulation of ideas and information, the relationship between communication and society, and the transformation of mass forms of popular culture. In addition to exploring the historical developments of media and communication, the program introduces students to emerging theoretical and methodological approaches to the study of contemporary media. Core courses in Communication Studies provide students with knowledge of key traditions in communication studies and cover a series of critical themes that are intended to guide students throughout the program.

A degree in Communication Studies will train students to analyze media critically, focusing not only on what various media are, but also on the relationship of media to social power, personal and international relations, moral issues, cultural events, representational politics and the role of technological industries in society.

Career opportunities for students pursuing communication studies include:

- public relations
- advertising
- education
- consulting
- human relations and management

- telecommunications
- broadcasting
- fine and performing arts
- writing
- publishing
- research (academic and business)

Communication Studies is also an excellent preparation for students intending to pursue careers in law, journalism, film and politics.

Courses available in first year:

Communication Studies 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

Communication Studies 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 Communication Studies 2000 is encouraged

Contact information

For additional information please contact:

Dr. Dwayne Avery, Undergraduate Advisor
davery@mun.ca

Renée Shute, Academic Program Manager
rshute@mun.ca

www.mun.ca/english/programs/undergraduate/interdisciplinary
What is computer science?

Computer Science deals with the theoretical foundations of information and computation, and with practical techniques for their implementation and application.

Why study computer science?

Students in every discipline can benefit from exposure to computing concepts and skills. For students who choose computing as a major, software developers are currently among the highest in demand and among the highest paid entry-level positions. Other positions include computational scientists, computer architects, cyber security personnel, game programmers, IT specialists, mobile computing developers, network analysts, robotics programmers, systems analysts/designers and web specialists.

Since computer technology is used in all disciplines, non-computing majors can also benefit from an increased awareness of computing concepts, technology, programming or problem solving by taking one or more computer science courses. Whether students are planning to major in computer science or merely use computers on the job, the graduate with some computing knowledge and skills will have added value in any career.

Internship work term program

Paid work term placements are available for students who meet the requirements of the co-operative internship in computer science.

Positions are available locally or abroad, for a minimum of eight and a maximum of 16 months in duration. We encourage our students to obtain the most beneficial work experience possible and often place students with major software companies.

Computer science program offerings (major and minor)

The Department of Computer Science offers a number of programs at the St. John’s campus. Bachelor of Science (B.Sc.) or Bachelor of Arts (BA) degrees are available, differing primarily in the student’s choice of advanced level electives. Two stream-based programs are available: Smart Systems, and Visual Computing and Gaming. Students may pursue an honours degree for more in-depth study and exposure to research activity under the supervision of a faculty member. A specialization in software engineering is available in the B.Sc. honours program.

A computer science minor provides a student in other disciplines the opportunity to develop expertise in a chosen area of computer science. The minor program includes flexibility for a student to choose a few advanced courses, so an interest in computer graphics, software development, scientific computing, computer networking, artificial intelligence, robotics or information systems (for example) can be accommodated if the student plans their course selection carefully.

Courses available in first year:

Students intending to major or minor in computer science should start with Computer Science 1001. Computer Science 1000 is an optional course and is not required for a major or minor in 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.
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
Note: Students can receive credit for only one of Computer Science 1001 and the former 1710.

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
Corequisite: 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 worldwide 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 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 1000 or 1001 or 1510 or 1550 or the former 1700 or the former 1710 or Engineering 1020, or equivalent

**Contact information**

For additional information please contact:
cs-ugradadv@mun.ca
www.mun.ca/computerscience

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**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 the former 1700 or the former 1710
What is Earth sciences?

Earth sciences is the study of the Earth and its neighbours in space. This discipline deals with the origin, composition and history of our planet as well as the physical, chemical and biological processes that have changed and shaped it over the past 4.5 billion years. Today, we routinely view images of the planet from space. Studies of the Earth’s continents, oceans and atmosphere reveal a complex and yet fragile, world. This view has propelled us into an extraordinary age of geoscientific research. Earth scientists commonly explore the formation of mountains, drift of the continents, sources of mineral and fossil fuel deposits and environmental hazards of an expanding human population.

New discoveries and theories in our understanding of planetary structure and function affect not only how we live but also how we relate to one another. The goal of the introductory Earth sciences program at Memorial is to share the excitement of these discoveries by providing an overview of planet Earth, its structure, its history and the role of Earth sciences in resource and environmental studies. It provides a solid foundation of knowledge and skills for Earth sciences majors and allows other students to explore Earth science topics of interest and relevance.

Why study Earth sciences?

Earth science majors, minors and students in certain joint honours programs (Earth sciences/biology, Earth sciences/chemistry, Earth sciences/geography, Earth sciences/physics and geophysics/physical oceanography) are required to take Earth Sciences 1000 and Earth Sciences 1002 in preparation for their more detailed and specialized second-year courses.

Employment opportunities for Earth sciences graduates include but are not limited to mineral or petroleum resource exploration and development, environmental assessment, protection and remediation, teaching, education and research, science journalism and publishing, as well as careers in government agencies (natural resources, geological surveys and parks and recreation). Natural resources, such as the offshore oil and gas industry and mining industry, play a crucial role in the economic and social development of the province and are major areas of employment for graduating students of this program.

Non-majors are welcome to explore a variety of course offerings, including: Earth Sciences 1000 (Earth Systems), 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) and Earth Sciences 2919 (Introduction to Marine Geology).

Courses available in first year:

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
Notes:
1. A minimum grade of 55 percent in both Earth Sciences 1000 and 1002 is required for Earth sciences majors, minors and all joint programs.
2. 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 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 this 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, palaeontology, 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, Science 1807 and 1808
Note: A minimum grade of 55 per cent in both 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
Note: This course may not be used toward the minor, major or joint Earth Sciences programs.

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 joint Earth Sciences programs.

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 joint Earth Sciences programs.

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 online or in class.
Prerequisite: None
Note: This course may not be used toward the minor, major or joint Earth Sciences programs.

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 per cent.
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.

Contact information

For additional information please contact:
Michelle Miskell, Manager of Academic Programs
mmiskell@mun.ca
www.mun.ca/earthsciences
What is economics?

Economics is the study of how limited resources can be allocated to the production of goods and services and how these goods and services can be distributed to satisfy the unlimited desires of individuals. Economics is usually divided into two general categories: microeconomics and macroeconomics. The former examines the markets for specific goods to determine how much will be produced and at what price they will be sold. The latter deals with total production in the economy, the overall price level and the role of money. This division forms the basis of the two introductory courses.

Why study economics?

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. Economic analysis can be focused on an enormous variety of questions: the fishery, petroleum production, forestry, unemployment, taxation and economic growth are examples of particular relevance to our province. Possible career opportunities for students studying economics include, but are not limited to:

- economist
- sales analyst
- investment analyst
- financial services manager
- market research analyst
- international trade specialist
- journalist
- economic forecaster
- insurance agent
- commodities trader
- securities broker
- bank research analyst
- economic consultant

Economics Co-operative Education Option (ECEO)

The popularity and demand for economics co-op programs is increasing across the country. The reason is simple. The qualitative and quantitative analytical skills of economists-in-training are in demand by the private sector and the public sector alike. Co-operative programs combine a solid base of course work with work terms that can provide students with invaluable experience.

Courses available in first year:

**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](http://www.mun.ca/hss/qr).
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

**Economics 1020**
Introduction to Macroeconomics covers national income accounting, aggregate income analysis, money, banking and foreign trade. 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
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 prerequisite to all further courses in economics.

Contact information

For additional information please contact:

**St. John’s Campus:**
Department of Economics
economics@mun.ca
[www.mun.ca/econ](http://www.mun.ca/econ)

**Grenfell Campus:**
Dr. Morteza Haghighi
mhaghighi@grenfell.mun.ca
**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 laboratory 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 mind-set 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 course 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.  
Lecture Hours: as scheduled. Attendance is required  
Credit Hours: None

**Contact information**  
For additional information please contact:  
Faculty of Engineering and Applied Science  
Student Liaison Officer  
engr-liaison@mun.ca  
www.engr.mun.ca
Why study English?

The study of English is recognized as a foundation for every kind of intellectual work and study. For this reason, every Memorial University student is required to take at least three credit hours in English. The first-year English program offers students the opportunity to enrich their experience of literature and the English language through the close reading and study of selected texts in a variety of genres and forms. The program emphasizes critical reading, critical thinking, and essay writing. Students become more familiar with the strategies of writing analytical essays in response to selected texts. Written assignments are set frequently and students are expected to pay close attention to their instructors’ suggestions for improving content, organization, and expression.

Information for students whose first language is not English

Students whose first language is not English have the option to begin studying English with either English 1020 or English 1090. English 1090 would be an appropriate course for those students who:

- completed the equivalent of three years of full-time instruction in an English language secondary institution as recognized by Memorial University of Newfoundland including successful completion of appropriate course(s) in English at the Grade 12 or equivalent level
- attended a recognized post-secondary institution where English is the language of instruction and successfully completed the equivalent of 30 credit hours including six transferable credit hours in English courses.
- achieved an overall/writing score on the IELTS of at least 8
- achieved an overall score on the TOEFL of at least 90 or a writing score on the TOEFL of at least 25
- achieved an overall/writing score on the CAEL test of at least 80

All students who do not meet at least one of the criteria listed above should register for English 1020. English 1020 is a prerequisite for 1021, 1090, 1191, 1192 or 1193. Questions should be directed to the Department of English, english@mun.ca.

Courses available in first year

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. All sections of this course follow the CRW guidelines available at [www.mun.ca/hss/crw](http://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](http://www.mun.ca/hss/crw) 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. All sections of this course follow the Critical Reading and Writing guidelines available at [www.mun.ca/hss/crw](http://www.mun.ca/hss/crw).

Lectures: Three hours per week
Prerequisite: English 1000 or equivalent

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](http://www.mun.ca/hss/crw).

Lectures: Three hours per week
Prerequisite: None
Note: Credit may be obtained for only one of 1000, 1090 or the former 1080.
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
Note: 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
Note: 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
Note: 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 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 and build on foundational CRW content delivered in English 1090.
Lectures: Three hours per week
Prerequisite: English 1000, 1090, or the former 1080
Notes:
1. Credit may be obtained for only one of English 1020 and 1110.
2. All students entering the Faculty of Business undergraduate programs must have successfully completed English 1110 or English 1021.
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 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  
Note: Students will not receive credit for both English 1020 and 1110.

**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  
Notes:  
1. Students completing this course may elect to use it with English 1020 to fulfill the Bachelor of Arts Language Study requirement.  
2. 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.

**English 102F**  
**Foundation English** is a non-credit course designed for students whose first language is other than English and whose knowledge and use of English do not meet the standards for entry into the regular first-year English courses.  
Lectures: Three hours per week  
Laboratory: One hour per week  
Notes:  
1. Six credit hours in English at the 1000 level are a prerequisite for all English courses at the 2000 level or above. English 1090 or the former 1080 cannot be used as the prerequisite for 1020 or 1021.  
2. Students may not be registered in 102F and another 1000-level course at the same time.

Contact information

For additional information please contact:  
St. John's campus:  
Dr. Jennifer Lokash  
jlokash@mun.ca  
www.mun.ca/english  
Grenfell Campus:  
Holly Pike  
hpike@grenfell.mun.ca  
For additional information please visit our website
ENVIRONMENT AND SUSTAINABILITY

Environment and Sustainability 1000
Introduction to Sustainability Science (available only at Grenfell Campus) examines historical and contemporary models of resource management and decision making as well as the supporting theoretical basis for an interdisciplinary approach to natural resources that includes ecological, economic, social, and political perspectives. Case studies will be presented from Newfoundland and Labrador, across Canada, and around the world.
Lectures: Three hours per week
Prerequisite: None
Note: Students can receive credit for only one of Environment and Sustainability 1000, the former Environmental Studies 1000 and the former Sustainable Resource Management 2000

ENVIRONMENTAL SCIENCE

Environmental Science 1000
An Introduction to Environmental Science (available only at Grenfell Campus) 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

Contact Information
For additional information please contact:
Dr. Ian Warkentin
ian.warkentin@grenfell.mun.ca
For additional information please visit our website.
What is folklore?

The discipline of folklore is a diverse examination of informal culture. Its subjects include stories, music, dance, drama, architecture, material culture, celebrations and patterns of belief, as well as customs related to work, leisure, childhood, family, aging, gender, sexuality, ethnicity, individuality and community. 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 explores these customs as dynamic relationships between old ideas and new, individual creation and collective acceptance, local and global influences. And because folklore concerns the everyday, intimate practices of people, ethnographic field research is a vital part of its practice. Folklore is a close cousin of several disciplines, including English, anthropology, sociology, linguistics, religious studies, ethnic studies, music and history - and so draws scholars and students from a wide variety of backgrounds.

Why study folklore?

A degree in folklore prepares students for many paths. Knowledge of cultural dynamics and cultural diversity, along with skills in interviewing, ethnographic description and cultural interpretation, are excellent grounding for careers in a wide range of fields. Marketing, tourism, and journalism, as well as museums and archives, all employ folklorists. Studying folklore prepares students for graduate work in any of the humanities and social sciences as well as for professional degrees in education, social work or library science or a career in business. Those who wish to pursue an academic career go on to complete graduate degrees in folklore or they may combine folklore with a graduate degree in another discipline to prepare them for positions in a variety of other academic departments (e.g. English, anthropology or music) or interdisciplinary programs (e.g. Gender Studies or Canadian or American Studies). The Department of Folklore also oversees the interdisciplinary certificate program in Newfoundland and Labrador Studies.

Courses available in first year:

**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](http://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

Contact information

For additional information please contact:
Dr. Cory Thorne, Undergraduate Advisor
folklore@mun.ca
[www.mun.ca/folklore](http://www.mun.ca/folklore)
Why study 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. Possible career choices for students pursuing French include but are not limited to translation, interpretation, federal government, commerce, international affairs, teaching, art, architecture, music, tourism and hospitality (international hotel/resorts management, human resource management and event planning), and the oil and gas industry due to the international presence within these companies. Three first-year French courses are offered. These courses are designed to progress quickly from basic French to readiness for more advanced work at the second-year level. All three courses provide a balance of reading, writing, speaking and listening skills and all three stress accuracy in written French.

Students who complete core French (not French immersion):

Selection of a French course depends on a student’s background and ability in French. Most new students may choose either French 1500 or 1501. Students who receive less than 80 per cent in French 3200 or 3201, should begin with French 1500. Students with a stronger background (80 per cent or more in French 3200 or 3201), especially those wishing to progress more quickly to second-year French, should begin with 1501. Students may not normally register concurrently for more than one of French 1500, 1501 and 1502.

French 1502 is reserved for students who have successfully completed French 1501 with a final grade of at least 60 per cent or who have a very strong background in French. Those who have not completed French 1501 will be required to obtain the permission of the Manager of Academic Programs to register for French 1502.

Students who complete French immersion:

Students who have completed French immersion in high school with 85 per cent or more and students with an outstanding academic record in extended or accelerated French should register for French 2100. The Department of Modern Languages, Literatures and Cultures permits students to challenge for credit a maximum of two of the following courses: French 1500, 1501, and 1502. Students who challenge these courses for credit will be evaluated in all four language skills (reading, writing, speaking, and listening).

Notes:

1. Students whose native language is French may not challenge 1500, 1501 or 1502 for credit. They will not normally be allowed to register for first-year courses.

2. Students who attain a grade of less than four on the Advanced Placement examination in French language and students who need to review material studied at the secondary level, should register for French 1502.

Study away in second year

When choosing first-year French courses, students should keep in mind that they may want to take advantage of the Frecker Program in second year. Admission to this program is competitive based on final grades from French 1502. It 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. Besides the Frecker Fall Program, the department offers a four-week program in St. Pierre-et-Miquelon in the summer as well as study abroad opportunities in France for third- and fourth-year students.

Note: Students interested in completing a Bachelor of Education program with French as a focus area must have written the DELF B2 and must have received at least a grade of 70 per cent with no less than 60 per cent in any one skill area of the exam.
Courses available in first year:

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 the 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, thistleb@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 permission of the co-ordinator of first-year French, or French 1500. Ex-immersion students with less than 60 per cent should register for this course.
Notes:
1. French 1501 is offered every semester. During fall and winter it is available evenings and online.
2. Students who have written the College Board Advanced Placement exam should consult 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. All sections of this course follow LS guidelines 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. French 1502 is offered every semester. During Fall and Winter it is also available in the evenings. It is also available online.
2. Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

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 which focuses 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 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.

Contact information

Students who are not sure where to begin their study of French should seek advice prior to registration.

St. John’s campus:
Dr. Barbara Thistle, 709 864 8565
thistleb@mun.ca, languages@mun.ca
www.mun.ca/languages/programs/undergraduate/french

Grenfell Campus
Professor Nathalie Pender
npender@grenfell.mun.ca.
## COURSE CRITERIA CHART FOR FRENCH – ST. JOHN’S CAMPUS

<table>
<thead>
<tr>
<th>Recommended Course</th>
<th>Required Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Provincial Students</strong></td>
</tr>
<tr>
<td>1500</td>
<td>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%.</td>
</tr>
<tr>
<td></td>
<td>Permission to register for this course will not be given to students who have completed high school French immersion</td>
</tr>
</tbody>
</table>

**Note:** If you meet the criteria above and are not able to register for French 1500 contact languages@mun.ca

| 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 | Grade 12/ Senior Secondary core French with a grade of 80% or greater |
|                    | This course is not appropriate for graduates of French immersion programs | This course is not appropriate for graduates of French immersion programs | This course is not appropriate for graduates of French immersion programs |

| 1502               | French 3200 with a grade of 90% or greater | Grade 12/ Senior Secondary core French with a grade of 90% or greater | Grade 12/ Senior Secondary core French with a grade of 90% or greater |
|                    | or | Grade 12/ Senior Secondary core French with a grade of 90% or greater | Grade 12/ Senior Secondary core French with a grade of 90% or greater |
|                    | Français 3202 with a grade less than 85% | Grade 12/ Senior Secondary French immersion with a grade less than 85% | Grade 12/ Senior Secondary French immersion with a grade less than 85% |

| 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 | 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 | | |

Native Francophones should consult the French department at (709) 864-7636 or languages@mun.ca
<table>
<thead>
<tr>
<th>Recommended Course</th>
<th>Provincial Students</th>
<th>National Students</th>
<th>International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>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%.</td>
<td>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%.</td>
<td>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%.</td>
</tr>
<tr>
<td>1501</td>
<td>French 3200 or 3201 with a grade of 80% or greater. Graduate of French Immersion programs with a grade less than 80% in Francais 3202</td>
<td>Grade 12/ Senior Secondary core French with a grade of 80% or greater</td>
<td>Graduates of French Immersion programs with less than 80% in their final French course</td>
</tr>
<tr>
<td>1502</td>
<td>French 3200 with a grade of 90% or greater Or Francais 3202 with a grade of 80% or greater</td>
<td>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</td>
<td>Grade 12/ Senior Secondary 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</td>
</tr>
</tbody>
</table>
What is gender studies?

Gender studies considers the various ways we construct differences from one another, based on gender and other identities. It asks what these differences mean in terms of how we understand one another, how we treat one another and how we organize the world around us. 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).

Students can declare a major in gender studies. Students can also combine a minor in gender studies with a major in other academic areas in the Faculty of Humanities and Social Sciences or with studies in other faculties across the university. Also, a wide range of gender studies elective courses can be taken while studying in another area. Students considering any of these possibilities should begin by taking one or more of the introductory level courses, Gender Studies 1000, Gender Studies 1005 and/or Gender Studies 2006.

Gender studies offers a wide range of courses at all levels of undergraduate studies. The major and minor programs also provide students with the opportunity to take elective courses in a range of related disciplines including anthropology, English, folklore, history, psychology and more.

Gender studies is supported by a wide range of activities outside of classes. The Department of Gender Studies has connections across the campus; it offers a regular Speaker’s Series (open to everyone) and an undergraduate scholarship. As well, there is an excellent library collection in gender studies.

Why study gender studies?

Gender studies specialists are highly valued in industry, education, media, justice, health, and cultural organizations. Their knowledge helps to address critical contemporary issues; for example, gender dynamics in the workplace, issues of representation in the arts, and the gendered nature of health and well-being. There is a growing demand in private and public sectors for those with a proven understanding of how gender and equality issues affect our society. Some students will choose to do graduate work in gender studies. The Department of Gender Studies offers a three-stream master of gender studies degree program that can be completed by writing a thesis, completing a project or interning with a business, service provider or community organization, locally, elsewhere in Canada or abroad.

Some courses available in first year:

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

Contact information

For further information please contact:
Department of Gender Studies
gndr@mun.ca
www.mun.ca/genderstudies
GEOGRAPHY

Geography: putting place-names on a map? Finding your way using a map or a global positioning system? Yes, but geography today is much more than this.

What is Geography?

Geography is a unique discipline in that it integrates the physical and social sciences.

We focus on the changing interactions between people and their environments on local, national and global scales.

Geography is also a spatial discipline, so we are interested in the distribution of and relationship between, the physical and cultural entities in our world: climate, landforms, soils, populations, agriculture and cities. Key questions that interest us include: Are we using resources sustainably? What are the impacts of environmental change (e.g. climate) on societies in different places? How should we interpret and understand the spatial distribution of economic, political and social activity?

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

Why study Geography?

There are many career options for geography graduates.

Environmental opportunities abound; locational analysis for commercial activity remains an important option; urban and regional planning continues to lure practitioners; and mapping and spatial data analyses have expanded with the wide-spread adoption of computer technologies. Teaching situations, at all levels, have been abundant as well. Geographers have long supplied their expertise to these areas, while recently adding new tools for executing these endeavors.

In addition to time-honoured applications, geographers are making inroads in less typical arenas. Travel and tourism now offer more opportunities to geographers, as do historic preservation, archival, and museum programs, along with situations involving international development and policy. From Geography: A Field of Dreams, Association of American Geographers.

For more information on geography or career options for students studying geography visit the following site: www.youtube.com/watch?v=27p2k1oot80

Courses available in first year:

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 IS guidelines for the Bachelor of Arts 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 Reasoning course guidelines available at www.mun.ca/hss/qr. 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 online
Prerequisite: none
Note: This course may not be used to satisfy the core requirements of the major or minor 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 the 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 the former 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 to satisfy the core requirements of the major or minor in Geography.

Contact information
For additional information please contact:
St. John’s Campus
Department of Geography
geog@mun.ca
www.mun.ca/geog
Grenfell Campus
Stephen Decker
GERMAN

What is German?

German is the first language of over 100 million people in Germany, Austria, Switzerland and other countries. In recent years and especially since the reunification of East and West Germany, German is used increasingly as a second and third language, because of its significance as a language of business, science and technology. Next to English, it is the most frequently studied language in the world.

Why study German?

The influence of German thought on Western civilization and culture, particularly in subjects such as philosophy, psychology, theology, history and music, has been considerable. Students in many fields of learning, therefore, find a knowledge of German not only useful but essential. The knowledge of two or three languages is vital in today’s global environment. Training in German helps prepare students for careers in international business, the foreign service, the publishing industry, translation and international law.

Courses available in first year:

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. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/lis.

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.

German 1001

Elementary German II is a continuation of Elementary German I with the same basic text. All sections of this course follow LS guidelines for the Bachelor of Arts available at www.mun.ca/hss/lis.

Lectures: Three hours per week

Prerequisite: German 1000

Note: Students who have written the College Board Advanced Placement exam should consult the Advanced Placement Policy chart for possible awarding of credit.

German 1010

Critical Reading and Writing: Hansel, Gretel, and the Big Bad Wolf introduces students to the German storytelling 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 prerequisite, the language of instruction is English throughout and they cover German culture, film, and literature in translation: German 2900 (culture), 2901 (culture), 3000 (film), 3001 (film), 3002 (film), 3912 (literature), 3913 (literature), 3915 (culture). These courses do not meet the Language Study guideline for the Bachelor of Arts.

2. Completion of German 1000 and 1001 qualifies students for the Heidelberg Field School summer program in Heidelberg, Germany. www.mun.ca/languages/more/study_abroad/german/

Contact information

For additional information please contact:

Dr. Maria Mayr
German Liaison
mmayr@mun.ca

www.mun.ca/languages/programs/undergraduate/german/
HISTORY

What is 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.

Why study history?

Most of the courses in the department provide students with the opportunity to ask clear questions about the past, develop and articulate concise answers, and provide good evidence for these answers. History students develop critical thinking, research and writing skills that will prepare them for many types of careers. Many of our students have gone on to law school, entered the heritage sector, or pursued careers in such professional areas as education, libraries and archives, or the civil service.

Courses available in first year:

Note: History students may use only one first-year course to meet the requirements of their major or minor.

History/Archaeology 1005
Critical Reading and Writing in Indigenous-Aboriginal Studies features the analysis of scholarly literature, media, and other sources of knowledge related to Aboriginal and 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 CRW guidelines for the Bachelor of Arts available at www.mun.ca/hss/crw. Lectures: Three hours per week (This course is sometimes offered online). Prerequisite: None

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 analyse and think critically about a wide variety of sources and to write well-crafted papers that are coherently organised and argued. All sections of this course follow CRW guidelines for the Bachelor of Arts available at www.mun.ca/hss/crw. Lectures: Three hours per week Prerequisite: None

History 1009
Critical Reading and Writing on 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/hss/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 for the Bachelor of Arts available at www.mun.ca/hss/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/hss/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/hss/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 for the Bachelor of Arts available at www.mun.ca/hss/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 for the Bachelor of Arts available at www.mun.ca/hss/crw.
Lectures: Three hours per week
Prerequisite: None

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 for the Bachelor of Arts available at www.mun.ca/hss/crw.
Lectures: Three hours per week
Prerequisite: None

History 1100
Introduction to History (available only at Grenfell Campus) is an introduction to the study and writing of history which will emphasize the concepts of history through a thematic approach to the history of Western civilization from ca. 1500 to ca. 1815.
Lectures: Three hours per week
Prerequisite: None

History 1101
Introduction to History (available only at Grenfell Campus) is an introduction to the study and writing of history which will emphasize the concepts of history through a combination of research and writing within a thematic approach to the history of Western civilization from ca. 1815 to the present. Students in their first year normally take History 1100 and History 1101
Lectures: Three hours per week
Prerequisite: None

Note: History students may use only one first-year course to meet the requirements of their major or minor.

Contact information
For additional information please contact:

St. John’s campus
Dr. Stephen Curtis
stephanc@mun.ca
www.mun.ca/history

Grenfell Campus
Edwin Bezzina
ebezzina@grenfell.mun.ca
For additional information please visit our website.
HUMAN KINETICS AND 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 toward any of the kinesiology or physical education degrees offered by the School of Human Kinetics and Recreation.

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 2500
Diversity and 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 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 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 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

Contact information

For additional information please contact:
John Saunders
jsaunder@mun.ca
www.mun.ca/hkr
**LANGUAGE**

**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](http://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](http://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](http://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. All sections of this course follow the Language Study guidelines for the Bachelor of Arts available at [www.mun.ca/hss/ls](http://www.mun.ca/hss/ls).  
Lectures: Three hours per week  
Prerequisite: Language 1300
“We are in bondage to the law so that we might be free”—Cicero

What is law and society?

Law and society is an interdisciplinary program oriented towards students who are interested in pursuing a career in a law-related field or who are simply curious about the law. It is an exciting field of study which deals with the nature of law and its role in everyday life. As part of the process of exploring these relationships, law and society scholarship incorporates insights from various academic disciplines including: history, sociology, anthropology, economics, political science, psychology, gender studies and conventional legal scholarship. It is possible to declare either a major or minor in law and society. Both the major and minor provide students with the opportunity to take elective courses in a range of related disciplines including anthropology, sociology, psychology, political science, business, history and gender studies. While the entire program cannot be completed online at this time, law and society makes a concerted effort to improve accessibility for students throughout the province by offering some courses through distance education, including the core courses required for a law and society major or minor. Of course, students studying in other disciplines and faculties may also take law and society electives to fulfil their general degree requirements.

Why study law and society?

The law and society program is both flexible and engaging. Its interdisciplinary nature allows students to explore a broad range of courses while still meeting the major or minor requirements for an undergraduate degree. The program also makes a concerted effort to keep students informed of law-related events and to maintain working relationships with local law related organizations. As part of the program’s community outreach, guest speakers take part in program events and meet with on-campus students.

Although it is not a pre-law program, many law and society students are interested in law as a profession. Law and society allows students to learn about the law and the important social role of the Canadian legal system. Consequently, law and society provides a useful background for a career in academia, business, journalism, police work, law, as well as work in policy making, and human resources related fields. As with many academic fields of study, students with a keen interest in the area may decide to pursue graduate studies in the area. Given the increasing prevalence of law and legal issues in our society, a law and society background helps students acquire knowledge about law-related issues that is crucial to public and private sector employment.

Course available in first year:

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

Contact information

For additional information please contact:
Renee Shute, Manager of Academic Programs
rshute@mun.ca
www.mun.ca/posc/lawsociety/
Linguistics

What is linguistics?

Linguistics examines the nature of language, its structure, history, how it develops, how it varies from region to region and from person to person.

Why study linguistics?

Since language is so basic to human beings, the questions that linguists find worthwhile are related to almost all fields of study. By investigating how language is organized at the level of sounds, words, phrases, sentences and meaning, linguists hope to come to a better understanding of the special mental and physical endowment that humans possess which enables them to learn and use language as a medium of communication. Seen in this way, the study of the human language is, in the end, the study of the human mind.

The study of linguistics prepares students for many professions including, but not limited to, speech-language pathologist, audiologist, second language teacher, interpreter/translator, professional linguist, neurolinguist, psycholinguist, editor, programmer or technician for computer speech synthesis and recognition, and lexicographer.

Speech therapists, language teachers, educators, lawyers, psychologists, social scientists, mathematicians, engineers, computer scientists, musicians and students of literature are among those who find different aspects of linguistics useful in their professions.

Courses available in first year:

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: Eskimo-Aleut (Inuittut) and Algonquian (Innu-aimun, Mi'kmaq, Maliseet-Pasamaquodd 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.
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

Linguistics 2300
Philosophy of Language and Mind (same as Philosophy 2300) is a survey of philosophical thinking about human language and thought, and about how these phenomena relate to the rest of the natural world. Topics covered include the nature of language, the relations between thought and language, and the nature of consciousness.
Lectures: Three hours per week
Prerequisite: None

Contact information
For additional information please contact:
Department of Linguistics
linguist@mun.ca
www.mun.ca/linguistics
MATHEMATICS AND STATISTICS

Mathematics plays an increasingly greater variety of roles in modern society. At the university level, mathematics provides technical know-how in diverse areas such as economics, engineering, physics, biology, chemistry, psychology and computer science. 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.

First-year courses attempt to prepare students for study in these areas as well as for further study in mathematics and statistics. First-year mathematics courses fall into two streams: Mathematics 1050/1051, a non-calculus stream for students who neither require nor wish to study calculus and for prospective teachers in primary and elementary education; and Mathematics 1090, 1000 and 1001, courses in a calculus stream designed to prepare students for the study of sciences and further mathematics.

Why study Mathematics?

Job opportunities for students studying mathematics and statistics include but are not limited to:

- actuary
- air traffic controller
- demographer
- epidemiologist
- forensic statistician
- investment banker
- meteorologist
- personal finance advisor
- software specialist
- risk analyst
- risk management specialist

Courses available in first year:

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 (at Grenfell Campus, three hours of lectures and a 90 minute problem laboratory per week.)

Prerequisite: Mathematics 1090 or a combination of placement test and high school advanced mathematics scores acceptable to the department.

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 (at Grenfell Campus, three hours of lectures and a 90 minute problem laboratory per week.)

Prerequisite: Mathematics 1000

Mathematics 1050

Finite Mathematics I (St. John’s campus only) 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 is required at the St. John’s campus; or at Grenfell Campus, the successful completion of Level III Academic or Advanced Mathematics

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 (St. John’s campus only) 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 is required at the St. John’s campus; or at Grenfell Campus, the successful completion of Level III Academic or Advanced Mathematics

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 1052
Mathematics for Business (available only at Grenfell campus) covers topics which include elementary algebra and functions, sets, elementary probability, matrices, systems of equations, and linear programming.
Lectures: four hours per week
Notes:
1. Students may not receive credit for this course if they have previously received credit for Mathematics 1050 or Mathematics 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 1053
Classical Mathematics (available only at Grenfell campus) covers topics which include logic, permutations, combinations, mathematical systems, elementary number theory, geometry.
Lectures: four hours per week
Notes:
1. Students may not receive credit for this course if they have previously received credit for Mathematics 1050 or Mathematics 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 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 (at Grenfell Campus, three hours of lectures and a three-hour problem laboratory per week.)

Prerequisite: A combination of placement test and high school mathematics scores acceptable to the department is required at the St. John’s campus; or at Grenfell Campus, the successful completion of Level III Academic or Advanced 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.

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
Laboratory: 90 minute laboratory per week
Co-requisite: Mathematics 1000
Note: Statistics 1510 is intended for students with an interest in pursuing a major in statistics or mathematics

Mathematics 2000
Calculus III is an introduction to infinite sequences and series, and to the differential and integral calculus of multivariate functions. Topics include tests for the convergence of infinite series, power series, Taylor and Maclaurin series, complex numbers including Euler's formula, partial differentiation, and double integrals in Cartesian and polar coordinates.
Lectures: Three hours per week
Prerequisite: Mathematics 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

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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 t-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.

Notes:

1. Students who complete one of the following will receive credit for Mathematics 1000:
   - IB Higher Level Mathematics with a score of four or higher
   - AP Mathematics with a score of three or higher on the AP Calculus AB exam (students must request to have AP grades sent to the Registrar’s Office)
   - Newfoundland and Labrador high school Mathematics 3208 with a pass on the Calculus Placement Test (CPT) in June, September or January.

   These students are advised to register for Mathematics 1001 at Memorial.

2. International students should write the College Board SATMI (Mathematics Level 1 subject test) at their earliest convenience to know which mathematics courses they will have permission to take before arriving in Canada.

3. Mathematics 1000 is available for direct entry to students who complete one of the following:
   - IB Standard Level Mathematics with a score of four or higher
   - AP Mathematics with a score less than three but obtain at least 75 per cent on the MPT
   - SATMI score of at least 700
   - Mathematics 3200 with a grade of at least 75 per cent
   - Mathematics 3200 with a grade between 50 – 74 per cent and at least 75 on the MPT
   - Non-NL grade 12 level Advanced Mathematics with a 75 on the MPT

4. All other students requiring calculus should take Mathematics 1090 (or Math 109 A/B) prior to Mathematics 1000. A student who does not meet the requirements for entry to Mathematics 1090 (or 109 A/B) will be directed to external resources for upgrading high school mathematics.

5. Transfer students who have queries regarding the prerequisite for Mathematics 1090 or 1000 are strongly advised to contact the Department of Mathematics and Statistics at 709 864 8914 or Division of Science at Grenfell Campus at 709 637 6247.

Contact information

For additional information please contact:

St. John’s campus
Tara Stuckless, Undergraduate Officer
mathugrad@mun.ca
www.mun.ca/math

Grenfell Campus Dr.
Robert Gallant
rpgallant@grenfell.mun.ca
For additional information please visit our website.
Mathematics Placement at Memorial

A student’s success in university mathematics depends on their background and level of mathematics skills. Eligibility for registration in a first-year mathematics course depends upon the highest level of mathematics completed in high school and the grade earned in that course. Many students will also require the results of one of the following standardized tests:

- Calculus Placement Test (CPT)
- Mathematics Placement Test (MPT)
- College Board® Advanced Placement® (AP®) AB and BC exams
- International Baccalaureate® (IB®)
- General Certificate of Education (GCE)
- College Board® Subject Test® in Mathematics Level I (SATMI).

There may be other standardized programs and examinations outside of Canada that may also be used to determine appropriate placement.

Calculus Placement Test (CPT)

The CPT is an examination of a student’s knowledge of differential calculus. The test may be written by students in Newfoundland and Labrador who are currently completing Mathematics 3208, and out of province students who are currently completing a university level course in differential calculus and obtain permission from the Program Officer. Students who pass the CPT with a score of at least 50 per cent will be awarded credit for Mathematics 1000.

The CPT will be offered on Saturday June 8 at multiple sites in Newfoundland and Labrador. Students in the province are strongly encouraged to write the test at this time. The CPT will also be offered the day before classes begin in Fall and Winter and Spring (St. John’s campus).

To register for the test that is administered in June, please visit the CPT website, www.mun.ca/math/cpt/. The registration form will be active during the month of April.

For the test that is administered in the Fall and Winter semesters, students register for the test as they would a regular course. Register for the CPT (Math 1CPT) before registering for a mathematics course. Students can check the Course Offerings posted by the Office of the Registrar, www.mun.ca/regoff/registration, to see the available times to write the CPT.

The results will be emailed to students about four weeks after the test is written in June, and within two weeks for the test administered in September and January. To qualify for credit for Mathematics 1000 students need at least 50 per cent on the CPT.

Notes:

1. The CPT may be written only once.
2. The use of a calculator is neither required nor permitted.

Mathematics Placement Test (MPT)

The MPT is an assessment of basic skills in mathematics designed to measure levels of competence in specific core areas — addition, subtraction, multiplication and division of numbers, fractions, and algebraic expressions. It consists of 100 multiple-choice questions, broken down into five questions each in 20 topics/areas.

The MPT will be administered on the day before classes begin in the Fall semester and on the first day of classes in the Winter semester. In Spring semester, the MPT is offered on the first day of classes at the St. John’s campus.

Students who need to write the MPT in order to be able to register for their desired mathematics course can register for the test as they would a regular course. Register for the MPT (Math 1MPT) before registering for a mathematics course. Students can check the Course Offerings posted by the Office of the Registrar, www.mun.ca/regoff/registration, to see the available times to write the MPT. Results are emailed to students’ @mun.ca email address within 48hrs of completion of the test. The score needed depends on the mathematics course in which the student wishes to register.

Notes:

1. The MPT may be written only once.
2. The use of a calculator is neither required nor permitted. Further, no calculators are permitted for use in the calculus sequence, including pre-calculus (Mathematics 1090, 1000, 1001 or 2000).

College Board® Subject Test® in Math Level I (SATMI).

Students may write the SAT® Subject Test in Math Level I (SATMI) as often as they wish to obtain the required score for entry to Mathematics 1050, 1051, 1090 or 1000. More information and dates can be found at www.collegeboard.org/
Selecting a Mathematics Placement Test and Mathematics Course

Eligibility for registration in a first-year mathematics course depends upon the highest level of mathematics completed in high school and the grade earned in that course.

Advanced Mathematics Students

Students who complete Mathematics 3208

Students will be eligible to write the Calculus Placement Test (CPT). The CPT is offered in June, September and January. Eligible students are strongly advised to write in June.

Students who successfully complete the CPT will be eligible to register for Mathematics 1001 (Calculus II) in their first (or subsequent) semester, i.e. they will be given credit for Mathematics 1000 (Calculus I).

Students who do not pass the CPT will have direct entry to Mathematics 1000 (Calculus I) provided they achieve a final mark of at least 75 per cent in Math 3200.

Students who complete Mathematics 3200, but not 3208

Students who achieve a final mark of at least 75 per cent in Mathematics 3200 will have direct entry to Mathematics 1000 (Calculus I), without writing a placement test.

Students who pass Mathematics 3200 but achieve a final mark less than 75 per cent, have direct entry to Mathematics 1090 (Pre-Calculus), Mathematics 1050 (Finite Mathematics I) or Mathematics 1051 (Finite Math II) without writing a placement test. If desired, such students may write the Mathematics Placement Test (MPT) in September and if they achieve at least 75 per cent on the MPT they may register for Mathematics 1000 (Calculus I).

Students who complete other Advanced Math Courses

International and out-of-province students with a grade 12 advanced mathematics may qualify to take Mathematics 1050, 1051, 1090 or 1000, based on a sufficient score on the MPT, or other standardized test acceptable to the department.

Academic Mathematics students

Academic mathematics students will have access to the Pre-Calculus courses Mathematics 1090 and 109A/B, and the Finite Mathematics courses 1050 and 1051 based on their transcript grade in Mathematics 3201.

Academic Math students gain access to Mathematics 1000 (Calculus I) only by completing Mathematics 1090 or 109 A/B.

Students attending St. John’s campus

Students who achieve a grade of at least 50 per cent in Mathematics 3201 may register for the Finite Mathematics courses Mathematics 1050 or Mathematics 1051. Completion of these courses will not lead to Mathematics 1090 or Mathematics 1000.

Students who achieve a grade of at least 75 in Mathematics 3201 may register for Mathematics 1090. Students who score between 65 and 74 may complete the two-course sequence Mathematics 109A/B to gain access to Mathematics 1000. Students who score under 65 will be directed to external resources for Mathematics upgrading.

Mathematics 3201 students will not be permitted to write the MPT.

International and out-of-province students with a grade 12 academic mathematics may qualify to take Mathematics 1050, 1051 or 1090, based on a sufficient score on the MPT, or other standardized test acceptable to the department.

Students attending Grenfell Campus

Students who have achieved a grade of at least 50 per cent in Mathematics 3201 may register for the Finite mathematics courses 1052 (mathematics for business) or 1053 (Classical Mathematics) or for the pre-Calculus course, Mathematics 1090. Students are not required to write the MPT to enter these courses.
## COURSE CRITERIA CHART FOR MATHEMATICS – ST. JOHN’S CAMPUS

<table>
<thead>
<tr>
<th>Recommended Courses</th>
<th>Provincial Students</th>
<th>Required prerequisite</th>
<th>National Students</th>
<th>International Students</th>
</tr>
</thead>
</table>
| 1050 or 1051 Finite Mathematics These courses do not lead to calculus. | • Mathematics 3200 with a grade of 50% or greater  
• Mathematics 3201 with a grade of 50% or greater | Grade 12/ Senior Secondary Academic or Advanced Mathematics or equivalent with an MPT score of at least 50 or 550 on the SATMI | Grade 12/ Senior Secondary Academic or Advanced Mathematics or equivalent with an MPT score of at least 50 or 550 on the SATMI | |
| 109A/B Algebra and Trig (Extended) | • Mathematics 3201 with a grade between 65% and 74%, inclusive | Grade 12/Senior Secondary Academic or Advanced Mathematics or equivalent with an MPT score between 50% and 55%, and permission from the department | Grade 12/Senior Secondary Academic or Advanced Mathematics or equivalent with an MPT score between 50% and 55%, and permission from the department | |
| 1090 Algebra and Trigonometry | • Mathematics 3200 with a grade of 50% or greater  
• Mathematics 3201 with a grade of 75% or greater | Grade 12/ Senior Secondary Academic or Advanced Mathematics or equivalent with an MPT score of at least 55 or 600 on the SATMI | Grade 12/ Senior Secondary Academic or Advanced Mathematics or equivalent with an MPT score of at least 55 or 600 on the SATMI | |
| 1000 Calculus I or Statistics 1510 | • Mathematics 3200 with a grade of 75% or greater  
• Mathematics 3200 with a grade between 50 – 74% and MPT score of at least 75 or 700 on the SATMI  
• A score of at least four in Standard Level Mathematics from the International Baccalaureate® program | • A score of 700 on the SATMI  
• Grade 12 Advanced Mathematics with an MPT score of 75%  
• A score of at least four in Standard Level Mathematics from the International Baccalaureate® program | • A score of 700 on the SATMI  
• Grade 12 Advanced Mathematics with an MPT score of at least 75  
• A score of at least four in Standard Level Mathematics from the International Baccalaureate® program | |
| 1001 Calculus II | Credit for Mathematics 1000 or a grade of 50% or greater on the CPT | | | |

Students may write the SAT® (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).

The MPT and CPT may be written only once. The CPT is offered on a designated Saturday in June, and on the first day of classes in Fall and Winter. Students without Mathematics 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.
<table>
<thead>
<tr>
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<th>Provincial Students</th>
<th>Required Prerequisite</th>
<th>International Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>1052 or 1053 Finite Mathematics</td>
<td>Mathematics 3200 or 3201 and do not want or require calculus</td>
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</tr>
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</tr>
<tr>
<td>1000 Calculus I</td>
<td>• Mathematics 3200 with a grade of 75% or greater</td>
<td>• Grade 12/ Senior Secondary Advanced Mathematics with an MPT score of at least 75 or 700 on the SATMI</td>
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<td></td>
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<td>• Students who do not get a sufficient score on the MPT will be required to complete Mathematics 1090 before taking Mathematics 1000</td>
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<td>1001 Calculus II</td>
<td>Credit for Mathematics 1000 or a grade of 50% or greater on the CPT</td>
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</tbody>
</table>

Students may write the SAT® Subject Test in Math 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/).

The Mathematics Placement Test (MPT) and the Calculus Placement Test (CPT) may be written only once. The CPT will be offered on a designated 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.
What is medieval studies?

Medieval studies is the academic study of the Middle Ages, the history, literature, philosophy, religion, art and architecture, music and language.

Why study medieval studies?

The objective of this popular program is the integrated and specialized study of the historical and cultural period known also as the Middle Ages. This is defined here as the period between Antiquity and the Modern Age.

The influence of this period on our own time is wide ranging, and studying the Middle Ages helps one to understand the origins and historical developments of our contemporary thought and institutions. By studying where we have been we are better situated to understand where we are.

Medieval studies takes an interdisciplinary approach towards the study of the Middle Ages. Core courses are drawn from a number of different departments. This integration of the methods and subject matter of several disciplines mirrors the pluralistic, syncretistic, and multicultural framework of the age.

Courses available in first year:

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 guidelines for the Bachelor of Arts 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

Introductory 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 guidelines for the Bachelor of Arts 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 guidelines for the Bachelor of Arts 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 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 the Eleventh Century (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 since the Eleventh Century (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, analysing, 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.

Contact information
For additional information please contact:
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Associate Professor, Department of Philosophy
Undergraduate Liaison, Medieval Studies Program
shoff@mun.ca
Music is one of the most important components of modern life, entering our lives in many ways: through the internet, radio, television, movies, recordings, computer games, even elevators and restaurants. The study of music can be approached in several ways. University courses in music tend to be grouped into three categories: music theory (including composition), musicologies (the history and social life of music), and applied music (performance). Courses in applied music are available only to students in the Bachelor of Music program, while courses in music theory and musicologies may be taken by students in any program.

Why study music?

Courses in musicologies help students develop an understanding of music from cultural, social and historical perspectives. These courses introduce students to many kinds of music from classical to jazz, popular and world music and help them recognize the features that distinguish different musical styles and periods. They also develop critical thinking and research and writing skills.

Courses in music theory develop an understanding of the language of music, through its notation and structure. In music theory courses, students learn how to read and write music and discover how musical elements such as timbre, melody, rhythm and harmony are put together to make musical compositions. In composition courses, students put those skills to work creatively. Courses in aural skills also develop critical listening creatively. Courses in music develop the individual student’s potential for musical expression and performance. These courses develop a student’s technical competence, musical understanding and creativity so that they can prepare their own interpretations of music in a variety of styles.

Courses available to students who have not been admitted to the School of Music and 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: Music 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. Also available as a distance education course.

**Music 2021**  
**Introduction to World Music** provides an introduction to the music 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  
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  
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 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.

Large ensemble courses 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 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 Music 2021-2023 series may be applied toward the Bachelor of Music degree as an unspecified music elective.

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
Musicologies and music theory courses available to non-music majors who have fulfilled the prerequisite. Please note that spaces in these classes are made available to non-B.Mus. students only after all B.Mus. students have registered.

**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 1106 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 and 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 1117
Credit Hours: Three

**Music 1108**
**Materials and 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
Credit Hours: One
Prerequisite: Music 1106 or successful completion of the Theory Placement Test
Co-requisite: Music 1107

**Music 1118**
**Aural Skills II** is a continuation of Music 1117.
Lectures: Two hours per week
Prerequisite: Music 1107 and 1117
Credit Hours: One
Courses 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.  
Co-requisite: Music 140A/B  
Credit Hours: One

**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 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.  
Prerequisite: Open only to students whose principal applied study is voice  
Credit Hours: One

**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.  
Prerequisite: Music 1108, successful completion of the Piano Proficiency Test  
Credit Hours: None  
Notes:  
1. Students may gain credit for only one of Music 2401 or the former Music 1127.  
2. Music 2401 may not be taken for credit by students whose principal applied study is a keyboard instrument.

**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.  
Prerequisite: Music 1108, permission of the instructor for students whose principal applied study is not a keyboard instrument  
Credit Hours: None  
Note: Students may gain credit for only one of Music 2411 or the former Music 1137

**Contact information**

For additional information please contact:  
Dr. Ian Sutherland  
isutherland@mun.ca  
www.mun.ca/music
The following first-year courses are restricted to students admitted to the BN Program:

**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, 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  
Prerequisites: Nursing 1003 and 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: Nursing 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.
Laboratory: Two hours per week
Co-requisite: Nursing 1002, 1003 and 1004
Credit Hours: One

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

Contact information

Admission inquiries should be directed to the Undergraduate Nursing Admissions Office: www.mun.ca/nursingadmissions

For additional information please visit:

Memorial University Faculty of Nursing: www.mun.ca/nursing

Centre for Nursing Studies: www.centreformursingstudies.ca

Western Regional School of Nursing: www.grenfell.mun.ca/academics-and-research/Pages/western-regional-school-of-nursing.aspx
What is 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 essentially looks at the interaction between marine life and oceanic processes, covering such diverse topics as coastal and deep-sea food webs, marine animal ecology and behaviour, plankton dynamics, the effects of pollution or climate change on ocean life and ecosystems, and the management and conservation of aquatic resources, to name only a few.

Why study ocean sciences?

Our planet is predominantly covered by a vast ocean, which plays a key role in driving its climate and ecosystems, directly or indirectly affecting the lives of most of its inhabitants. Therefore, career perspectives and job opportunities for students with training in Ocean Sciences are extremely varied and rewarding.

Trainees and graduates may find work as laboratory technicians or research assistants in ocean-related fields such as:

- oceanography
- marine biology
- aquaculture
- fisheries

Other potential positions may include but are not limited to:

- marine science educator
- fisheries officer
- nature interpreter
- aquarium curator
- environmental analyst/consultant
- scuba diver

Importantly, students with a minor or major in Ocean Sciences are well prepared to undertake graduate studies (MSc, PhD) in various ocean-related fields, leading to further professional and academic positions.

Ocean Sciences at Memorial University

The Department of Ocean Sciences (DOS) is housed at the Ocean Sciences Centre (OSC) in Logy Bay, which is located approximately 10 kilometers from the 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 Memorial’s Undergraduate Career Experience Program (MUCEP) and summer research positions. The uniqueness of the department’s resources provides an opportunity for interdisciplinary training in cold ocean research, whether it is related to physiology, biochemistry and molecular biology; biological and chemical oceanography; behavioural and population ecology; or aquaculture and fisheries.
Undergraduate programs in Ocean Sciences

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. It is intended primarily for students in the Faculty of Science but is open to students in other faculties.

Minor in Sustainable Aquaculture and Fisheries Ecology (SAFE)

This program exposes students to aquaculture and fisheries management practices and helps prepare them for a career in applied marine fields. This is an interdisciplinary program administered by the Department of Ocean Sciences in consultation with the Marine Institute. It is intended primarily for students in the Faculty of Science but is open to students in other faculties.

Major in Ocean Sciences

This is an interdisciplinary program administered by the Department of Ocean Sciences, providing a solid foundation in ocean studies, including the basic principles of its main sub-disciplines (physical, chemical, geological, and biological oceanography)

Major in Ocean Sciences (Environmental Systems)

This program is a stream of the above that provides a geological/geographical context to biological and chemical phenomena in ocean sciences. It also covers such key ocean-related topics as climate change and natural hazards.

Joint Major in Marine Biology

This program 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.

Courses available in the first year

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 in a blended format that combines face-to-face lectures and online interactive activities in the form of virtual oceanographic expeditions.

Lectures: 90 minutes per week
Online Interactive Activities: 90 minutes 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 1051 (which may be taken concurrently) or Chemistry 1001 or the former Chemistry 1011

Contact Information

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**PHILOSOPHY**

**What is philosophy?**

Philosophy is the study of general and fundamental problems concerning matters such as existence, knowledge, truth, beauty, law, justice, validity, mind, and language, using a critical, generally systematic approach relying on reasoned argument.

Philosophy is one of the most influential of all areas of study, providing the frameworks in which we think and act. Allowing us to make sense of ourselves and our surroundings, Philosophy teaches not what to think but how to think. Philosophy is the discipline that questions the things that everywhere else and in every other discipline can be taken for granted.

**Why study philosophy?**

Studying philosophy gives one a chance to understand reality, clarify the nature of interactions between individuals and society, and come to terms with the problems of existence and ultimate values. Philosophy develops intellectual abilities. Beyond the knowledge and skills required for any particular profession, a good philosophical education enhances the capacity to participate responsibly and intelligently in public life.

**Courses available in first year:**

**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 worldviews 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 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

**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 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

**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

**Philosophy 1600**

*Philosophy of Human Nature (available only at Grenfell Campus)* is an approach to philosophical thinking by way of analysis and critique of theories of human nature, classical and modern, and the worldviews associated with them.

Lectures: Three hours per week
Prerequisite: None
Philosophy 2010
Metaphysics is an introduction to the systematic inquiry into the nature of reality. Topic may include the nature of being, time, the question of God, appearance and reality, the one and the many, mind and matter, essence and existence.
Lectures: Three hours per week
Prerequisite: None

Philosophy 2020
Epistemology introduces philosophy by way of the question of the nature of knowledge. Is knowledge a possession or an activity? Is truth an illusion, a correspondence, or a form of coherence? What does it mean to ‘hold a belief’ or ‘affirm a proposition’? Short classical texts form the basis of the works studied and may include Plato, Descartes, and Ayer.
Lectures: Three hours per week
Prerequisite: None

Philosophy 2030
Logic aims to improve the student’s ability to formulate and evaluate arguments. At the end of the course, the student will have a thorough understanding of the essentials of argument, the rules of valid inference, and ways of proving the validity of good arguments and the invalidity of bad arguments. Open in any year to all students desiring acquaintance with basic logical skills. All sections of this course follow Quantitative Reasoning Course Guidelines available at www.mun.ca/hss/qr.
Lectures: Three hours per week Prerequisite: None

Contact information
For additional information please contact:
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www.mun.ca/philosophy
What is physics?

Through physics we attempt to understand natural physical phenomena in the world around us, from the very small (atomic nuclei and elementary particles) to the very large scale of the universe.

The core of physics is a knowledge of basic laws laid down in fundamental theories such as those of kinematics, dynamics, relativity, electricity, magnetism, light, thermodynamics, quantum mechanics and nuclear and elementary particles. Physics is concerned with how these fundamental laws influence observed phenomena which might include anything from hitting a baseball with a bat to rocket dynamics.

There are two streams in first-year physics at Memorial University; one uses calculus, the other algebra. The calculus based courses (Physics 1050/1051) are intended for students with more experience in physics. The algebra based courses (1020/1021) can be taken by students with a limited physics background. Physics 1050 and 1051 are recommended for students planning studies in the physical sciences or engineering. Physics 1020 and 1021 are recommended for students planning studies in the life sciences.

Students interested in physical sciences but who do not meet the prerequisite for Physics 1050 can take the course sequence Physics 1020, 1021, 1051. However, any student receiving a grade of 70 per cent or higher in Physics 1020 can proceed directly into Physics 1051.

Tutorial assistance is available to students in all introductory courses.

Why study physics?

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.

Job opportunities for students studying physics include educator, geophysicist, health physicist, meteorologist, photonics specialist, and researcher and many others.

Courses available in first year:

Physics 1020
Introduction 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 or 109A, Science 1807 and 1808. It is recommended that students have completed at least one of level II and level III high school physics courses.
Co-requisite: Mathematics 1090 or 109A
Note: Students can receive credit for only one of Physics 1020 and 1050.
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 1090 or 109A or 1000, Science 1807 and 1808.

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
Prerequisite: Mathematics 1000, which may be taken concurrently, Science 1807 and 1808.
Note: Students can receive credit for only one of Physics 1020 and 1050.

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
Prerequisite: Physics 1020 (with a minimum grade of 70 per cent), 1021 or 1050; Mathematics 1001, which may be taken concurrently, Science 1807 and 1808.

Contact information
For additional information please contact:

St. John’s Campus
Dr. Richard Goulding
rgoulding@mun.ca

Grenfell Campus
Dr. Pierre-Michel Rouleau
prouleau@grenfell.mun.ca
For additional information please visit our website.
# COURSE CRITERIA CHART FOR PHYSICS – ST. JOHN’S CAMPUS

<table>
<thead>
<tr>
<th>Recommended Course</th>
<th>Provincial Students</th>
<th>National Students</th>
<th>International Students</th>
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</thead>
<tbody>
<tr>
<td>1020</td>
<td>Level III advanced Mathematics or Mathematics 109 A/B or 1090. Mathematics 1090 may be taken concurrently. It is recommended that students have completed at least one high school physics course.</td>
<td>High School physics recommended. Eligible for and registered in Mathematics 109 A/B or 1090.</td>
<td>High School physics recommended. Eligible for and registered in Mathematics 109 A/B or 1090.</td>
</tr>
<tr>
<td>1050</td>
<td>Physics 2204 and Physics 3204 with a grade of 70% or greater recommended Eligible for and registered in Mathematics 1000.</td>
<td>High School physics with a grade of 70% or greater recommended Eligible for and registered in Mathematics 1000.</td>
<td>High School physics with a grade of 70% or greater recommended Eligible for and registered in Mathematics 1000.</td>
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# COURSE CRITERIA CHART FOR PHYSICS – GRENFELL CAMPUS

<table>
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<th>Provincial Students</th>
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</tr>
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<tbody>
<tr>
<td>1020</td>
<td>Level III advanced Mathematics or Mathematics 1090. Mathematics 1090 may be taken concurrently. Physics 2204 or 3204; however, 1020 may be completed by someone who has no physics background with some extra effort.</td>
<td>High School physics recommended. Eligible for and registered in Mathematics 1090.</td>
<td>High School physics recommended. Eligible for and registered in Mathematics 1090.</td>
</tr>
<tr>
<td>1050</td>
<td>Physics 2204 and Physics 3204 with a grade of 70% or greater recommended Eligible for and registered in Mathematics 1000.</td>
<td>High School physics with a grade of 70% or greater recommended Eligible for and registered in Mathematics 1000.</td>
<td>High School physics with a grade of 70% or greater recommended Eligible for and registered in Mathematics 1000.</td>
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POLICE STUDIES

Major in Police Studies

The major in police studies is an interdisciplinary arts program that aims to promote the academic study of different facets of police institutions and practices, including the legal, political and social contexts in which they operate. This program would be beneficial for students with a scholarly interest in policing, corrections or law enforcement. The major in police studies does not constitute a qualification in policing.

Diploma in Police Studies

The Police Studies Diploma is a ten course program intended for students with an interest in policing or criminal justice. Police studies may be a valuable complement to students in a variety of programs including sociology, geography, political science, anthropology, psychology, and business. Students who have undergraduate degrees may be interested in the diploma as a means of specializing or expanding their knowledge in the policing area.

For students interested specifically in careers with the Royal Newfoundland Constabulary (RNC) in Newfoundland and Labrador, the RNC accepts the Diploma as fulfilling the post-secondary educational qualification for admission to their police cadet program but the diploma is no longer a requirement.

Admission Requirements

Students cannot self-declare this program. Students wishing to complete the Diploma in Police Studies should consult with the Police Studies Coordinator or Faculty Academic Advisor. Admission to the Diploma program is limited and competitive. Students who wish to enter this program must apply through the Office of the Registrar by April 1 for Fall semester registration and by October 15 for Winter semester registration. The formal application is available from the Office of the Registrar or at: www.mun.ca/hss/programs/undergraduate/ diplomas/

At the time of admission, applicants must have completed either a university degree in any discipline from a recognized university, or have completed at a postsecondary institution, the equivalent of 15 credit hours, which should normally include:

- six credit hours in English, and/or Critical Reading and Writing (CRW) courses. Recommended CRW courses include Political Science 1001, Gender Studies 2005, Philosophy 1230, Archaeology 1005 or History 1005
- Sociology 1000 (or the former 2000)
- Law and Society 1000
- Police Studies 2300 or Sociology 2300 (cross-listed)
Courses available in first year:

**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 credit hours  
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 credit hours  
Co-requisite: Sociology 1000  
Note: Students can receive credit for only one of Police Studies 2300 and Sociology 2300.

**Contact Information:**
For additional information please contact:  
Renee Shute, Academic Program Manager  
Faculty of Humanities and Social Sciences  
rshute@mun.ca

Dr. Adrienne Peters  
Program Liaison/Co-ordinator  
apeters@mun.ca  
or  
Dr. Rose Ricciardelli  
Program Co-ordinator  
rricciardell@mun.ca  
www.mun.ca/plst
POLITICAL SCIENCE

What is political science?

Interested in studying power, government, law, politicians, public policy, diplomacy and security? Curious about how politics and government affect our everyday lives? Want to become a more effective citizen? Then begin with Political Science 1000 and branch off from there.

Why study political science?

Political science co-operative: Imagine the advantage of graduating with career-related work experience. As part of our co-op degree program, strong students follow the normal route for an honours or major, in political science, except they also spend three semesters working full time prior to graduation. Co-op job placements include the federal, provincial and municipal governments, as well as interest groups, political parties, labour organizations and not-for-profits.

Courses available in first year:

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.
Lectures: Three hours per week
Prerequisite: None. Students are encouraged to complete Political Science 1000.
Note: All sections of this course follow CRW guidelines for the Bachelor of Arts available at www.mun.ca/hss/crw.

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
Note: This course is required for students interested in the International Bachelor of Business Administration (IBBA) degree program.

Political Science 2600
Introduction to Public Policy and Administration outlines major concepts in, and issues relating to, the fields of public policy and administration. Introduces students to major conceptual issues that shape public policy and government, such as agenda setting, types of public policy models and public management processes. Open to all students interested in the study of public policy and public administration.
Lectures: Three hours a week
Prerequisite: None

There are several other 2000-level courses to consider (usually following Political Science 1000), including:

- Political Science 2100 – Introduction to Political Theory
- Political Science 2300 – Introduction to Comparative Politics
- Political Science 2600 – Introduction to Public Policy and Administration
- Political Science 2800 – Introduction to Canadian Politics and Government

Course descriptions for the courses above can be found in the University Calendar.

Political science course information

Students can view examples of political science course outlines at www.mun.ca/posc/courses and find information about political science instructors at: www.mun.ca/posc/people.

Contact information

For additional information please contact:
Dimitrios Panagos
dpanagos@mun.ca
www.mun.ca/posc
PSYCHOLOGY

What is psychology?

Psychology is the study of behaviour and its biological basis. It seeks to understand the behaviour of living organisms through scientific research and to use the accumulated knowledge to promote human welfare. Psychology is both a science and a profession. As a science, psychology employs careful investigation to understand behaviour, thinking and experience. The profession of psychology applies this information to promote human welfare. 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.

Why study psychology?

The combination of writing, research and statistical analysis acquired in an undergraduate science degree with a major in psychology is a sound preparation for many careers, including but not limited to, administration, advertising, business, human resources, human services, law enforcement, real estate, research, sales, social services and technical writing. Psychology is also an excellent preparation for many graduate and professional programs, including law school, medical school and MBA programs.

Psychology at Memorial

Students can major in psychology through a Bachelor of Arts degree or a Bachelor of Science degree at Grenfell Campus or St. John’s campus. On the St. John’s campus, the psychology co-operative program is available to full-time psychology and behavioural neuroscience majors and honours students only. The program provides an opportunity for students to learn valuable practical skills while working in fields related to psychology. Students complete three work terms, which consist of full-time paid employment.

Courses available in first year:

Psychology offers two courses at the introductory level; both are surveys of different subfields within 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 prerequisite 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.

Contact Information

St. John’s Campus
www.mun.ca/psychology

Grenfell Campus
Grenfell Campus, Chair of Psychology
pstewart@grenfell.mun.ca
For additional information please visit our website.
What is religious studies?

Religion has always been with us: like play, art, and science, religion is part of what it means to be human. You don’t have to be religious to study religion at Memorial University. You just need to be curious about the historical and contemporary role that religion plays in people’s lives, its interactions with other aspects of culture, its role in shaping identities, beliefs and practices. It seems that the predicted demise of religion was premature—religion persists in spite of scientific and secular worldviews, and it can be found not only in places of worship and sacred books, but in the products of popular culture, in political and legal debates, and in the arts. Our professors teach and conduct research on topics such as religion in movies, rites of passage, gendered and other identities, the historical development and interpretations of religious texts and worldviews.

Religious Studies aims to introduce students to the history and variety of religions across cultures. In addition to studying the beliefs and practices that comprise religion in its historical and contemporary forms, our curriculum includes courses that contextualize religions in relation to the arts, politics, gender, science, violence, ethics, and secularism. Religious Studies is an interdisciplinary field, using a variety of methods and approaches—empirical, interpretative, theoretical, comparative, historical—to study the nature and function of religion as a human phenomenon. Religious Studies does not require a particular set of religious beliefs, nor does it seek to debunk religious practices or beliefs. Rather, in the academic study of religion we aim to understand religious worldviews and claims; where appropriate, we also evaluate and theorize about the functions and implications of religion.

Why study religious studies?

Undergraduate students across Memorial University take religious studies courses out of interest, and to fulfill elective and breadth requirements. But the Department also offers more focused routes of study: a minor, major, double major and honours degrees are available. The career trajectory of past undergraduates demonstrates the value of a Religious Studies degree: our graduates have gone on to careers in journalism, education, law, social work, government, and the not-for-profit sector. Like other degrees in the Humanities, Religious Studies prepares students with cultural literacy to organize, understand, evaluate, and present information—skills broadly valued in the workplace. With seven full-time professors, Memorial University’s Department of Religious Studies is one of the largest in the country.

Courses available in first year:

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 for the Bachelor of Arts 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.

Second year courses appropriate for first-year students:

Religious Studies 2022
Jesus at the Movies (same as the former Religious Studies 1022) examines how Jesus has been dramatized in film, investigating the reception of select Jesus films and cinematic Christ figures in academic, religious, and popular cultures, and reflecting on the sources and intentions informing the filmmaker's work. Lectures: Three hours per week. Prerequisite: None.

Religious Studies 2810
Religion and Science is an historical examination of the dynamic interaction of religion and science in modern Western culture. In addition to classic case studies such as the Galileo affair, Darwin’s evolutionary theory, and the 1925 Scopes ‘Monkey Trial’, the course asks whether science and religion are inherently at ‘war’ with each other or whether they have points of contact and perhaps even integration. Lectures: Three hours per week. Prerequisite: None.

Religious Studies 2811
Contemporary Religious Movements explores the development and forms of modern, western spiritualities, such as modern witchcraft, Neo-pagan religions, Mother Earth spirituality, UFO religion and the New Age Movement. Lectures: Three hours per week. Prerequisite: None.

Religious Studies 2812
Religion and Popular Culture analyzes the portrayal and treatment of religion in popular culture and the ways in which religious and mythic themes are communicated through a variety of media forms including television shows, films, music, mass-market fiction, and material culture. Lectures: Three hours per week. Prerequisite: None.

Contact information

For additional information please contact
Dr. Patricia Dold
www.mun.ca/relstudies
RUSSIAN

Why study Russian?

Because of the recent reforms in Russia, the importance of Russian in the modern world is obvious. It is the official language of the largest country in the world and one of the five official languages of the United Nations. It is spoken widely as a second language in Eastern Europe.

The difficulties of the language itself are exaggerated; contrary to the expectations of many, the alphabet is quite easy and can be mastered in a few weeks. The study of Russian provides a fascinating insight into a country that has long been enigmatic but is now the focus of world interest.

Russian is a useful tool for students of the arts, history and political science and, because of the prominence of Russian technology and research, it is also of benefit to students of business and all natural sciences.

The knowledge of two or three languages is vital in today’s global environment. Training in Russian helps prepare students for careers in international business, the Diplomatic Service, the publishing industry, translation and international law.

Courses available in first year:

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 the Language Study 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 the Language Study 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 prerequisite 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 prerequisite, 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.

Contact information

For additional information please contact
Dr. Stuart Durrant
Co-ordinator of Russian
jsdurrant@mun.ca
languages@mun.ca
All students who expect to take a laboratory course where they may be exposed to chemicals must have appropriate training in Workplace Hazardous Materials Information System (WHMIS) and Laboratory Safety.

Prior to the start of laboratory classes, students will need to obtain a pass grade of at least 80 per cent in Science (SC) 1807 (Safety in the Science Laboratory) and SC 1808 (WHMIS). These courses are listed as prerequisites for academic courses that involve working with hazardous products. Courses are offered online through Brightspace (online.mun.ca) and completion of both courses will take approximately two hours. Students should 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 courses. Once registered access is through Brightspace using their my.mun.ca login ID. Any questions can be directed to labsafety@mun.ca.

Note: Students who have not successfully completed both courses by the last day to add/drop courses as per the university calendar will automatically be dropped from any academic course for which SC 1807 and SC 1808 are listed as prerequisites.

Courses available in first year:

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 individual 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
Lectures: only offered online; completion time estimated to be one hour

Science 1808
WHMIS introduces students to Newfoundland and Labrador’s Workplace Hazardous Materials 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
Lectures: only offered online; completion time estimated to be one hour

Contact information

For additional information please contact:
science@mun.ca
www.mun.ca/science
Why study social/cultural studies at Grenfell?

Grenfell’s social/cultural studies is expansive. In Grenfell's social/cultural studies program, you'll encounter local and global issues, you'll study communication and mass media, explore cultural practices, beliefs and customs, and the changing role of gender in culture. We invite you into this vast interactive realm where culture and society are probed in their present-day and historical forms from three distinct and yet complementary perspectives:

- anthropology
- folklore
- sociology

These three areas share an emphasis on the personal experience of culture and rely on the ethnographic method – an approach that helps you understand the world from the perspective of the people you are studying.

There are opportunities for field research under the mentorship of your professors. You can study at our campus in Harlow, England, where you will have the opportunity to explore things such as the culture of architecture from rural housing to castles, and the significance of art and material culture. View a sample four-year schedule.

You will also have the opportunity to take courses such as:

- folklore and popular culture
- cultural crises and the environment
- social and cultural aspects of health and illness
- graphic novel
- supernatural folklore

A fourth-year independent project will allow you to answer your own big question. Others have researched gender stereotyping in children’s literature and men who participate in recreational ballet, among others.

Career opportunities

There are many career opportunities for graduates of our social / cultural studies program, including:

- social research
- governmental and non-governmental organizations
- social policy
- healthcare and medicine (e.g. occupational health and safety)
- community and rural development
- public relations
- law
- education
- journalism
- cultural heritage preservation and promotion
- cultural tourism
- social work
- human resources
- criminology/policing

Social Cultural Studies 2000

Introduction to Social/Cultural Studies introduces students to the theory and the intellectual and historical contexts of anthropology, folklore and sociology as the central academic foci of Social/Cultural Studies. Readings and lecture materials, drawn from each of the three disciplines, introduce students to core concepts, ideas and debates found within each cognate and the ways in which all three disciplines contribute to Social/Cultural Studies as an interdisciplinary field of study.

Lectures: Three hours per week
Prerequisite: None

Contact Information

For additional information please visit our website or contact:

Dr. John Bodner
jvodner@grenfell.mun.ca
Why study social work?

The Bachelor of Social Work (BSW) qualifies the graduate for beginning professional practice in Social Work. The aim of the BSW program is to develop social workers with generically based skills for working with individuals, families, communities, and groups. BSW graduates are prepared to practice in a variety of settings. These practice areas may include child welfare, health care, mental health and addictions, corrections within community organizations, healthcare or government settings.

Areas in which students will be educated include:

- assessment
- interviewing
- counselling
- advocacy
- program/policy analysis
- case management
- community capacity building.

Students receive an education which prepares them to work in urban centres and rural settings. A special emphasis is placed on the importance of identifying local needs and developing the means of meeting these needs in the context of available resources.

The objectives of the undergraduate program are to prepare students to:

- promote social justice and social well-being and creatively challenge oppression
- acquire and apply knowledge, skills, values, professional ethics and critical thinking abilities
- recognize limitations and strengths as a beginning social work practitioner
- integrate reflexively critical self-awareness
- assume leadership in collaboration and interdisciplinary practice
- utilize and participate in innovative and traditional inquiry and research models
- creatively practice with diverse individuals and collectives
- promote and critique the social work profession on regional, provincial, national and global levels
- commit to the process of lifelong learning
- participate collaboratively and respectfully in innovative teaching and learning processes
- address issues of transition and crisis in diverse contexts (individuals, families, groups, communities, formal organizations and society).

Social Work 1710, the introductory social work course, is available to Memorial students. This course is typically offered in the Fall and Winter Semesters and is a great opportunity for students to explore social work. Social Work 1710 is one of the required courses for admission to the BSW program.

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 on campus and online in the fall semester and online in the winter semester.

Prerequisite: None

Note: This is a prerequisite for all social work courses and is required for admission.

Contact information

Visit the School of Social Work’s FAQ page for helpful information for prospective applicants.

For additional information please contact:
School of Social Work
bswinquiries@mun.ca
www.mun.ca/socwrk
Twitter: @MUNScwk
Facebook: @MUNScwk
What is sociology?

Sociology is the study of social life, social change and the causes and consequences of human behaviour.

Sociologists investigate the structure of groups, organizations and societies, and how people interact within these contexts. Few fields have such broad scope and relevance for research, theory and the application of knowledge.

Why study sociology?

An undergraduate degree in sociology provides a strong liberal arts foundation for entry level positions in business, social service and government as well as an excellent foundation for advanced study in professions such as law, politics, teaching and business.

There are no prerequisite for declaring a sociology major or minor. First-year students may enrol in the core introductory course, Sociology 1000. Students may also enrol in 2000-level sociology courses that have no prerequisite.

Courses available in first year:

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
Changing World 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

Contact information

For additional information please contact:
Department of Sociology
sociology@mun.ca
www.mun.ca/soc
Spanish

Why study Spanish?

Spanish is spoken by more than 400 million people in Spain and 20 countries in South, Central and North America. Canada has entered into free trade agreements with many of these countries (NAFTA) and Spanish is one of the most important languages in the economy, politics and culture of our hemisphere. Spanish 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. It is one of the fastest-growing, most exciting and easy-to-learn languages.

Spanish will broaden a student’s horizons and provide the opportunity to live, study, travel or work in amazing places all over the world. Learning Spanish will open up your circle of friends and allow for social and cultural interaction with the growing number of Spanish-speaking students at Memorial University.

Possible career choices for students pursuing Spanish include but are not limited to translation, interpretation, administrative services, social services, federal government work, commerce, public relations and sales, international affairs, teaching, art, architecture, music, tourism and hospitality (international hotel/resort management, human resource management and event planning), and the oil and gas industry because of the international presence within these companies.

Study away in second year

To look for more information about studying Spanish abroad visit: www.mun.ca/languages/programs/undergraduate/spanish/

Courses available in first year

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 permission from the Head of the Department.

Notes:
1. Free tutorial and conversation sessions are available and conducted by native Spanish-speaking or advanced student monitors.
2. Spanish 1000 and 1001 are interactive courses that cover communication and culture.
3. The DLC (Digital Learning Centre) is an asset for reinforcing competencies.

Contact information

For additional information please contact:
Dr. Myriam Osorio
Science Building, Room 4045
(709) 864-4502
mosorio@mun.ca
languages@mun.ca
Theatre-making requires training in a number of different areas of expertise, foremost among them being acting and stagecraft. Acting encompasses the imaginative and physical skills acquired by the contemporary actor through the study of voice, movement, textual interpretation and improvisation. Stagecraft requires a mastery of technical and creative skills such as set design, costume design, lighting, sound and stage management. In addition, students of theatre also need a broad knowledge of the history and theory of performance. Several first-year courses are available to non-theatre majors at Grenfell Campus.

**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 in voice, movement, relaxation and concentration, improvisation and script analysis will introduce the student to the imaginative and physical skills required by an actor. This is a basic course for all theatre students regardless of their specific areas of interest.  
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

**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
**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:* Three hours per week

**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:* Three hours per week

**Contact Information**

For additional information please visit our [website](mailto:www.grenfell.mun.ca) or contact:

**Michael Waller**  
mwaller@grenfell.mun.ca
**VISUAL ARTS**

**Visual Arts 1000**
*Introduction to Two-Dimensional Art Practices* 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. Attendance is required.

Co-requisite: Visual Arts 1911
Studio: Four hours per week
Note: Credit may be obtained for only one of Visual Arts 1000 and the former Visual Arts 1510 and the former Visual Arts 1511

**Visual Arts 1001**
*Introduction to 3D, Photo and Time-based Art Practices* 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. Attendance is required.

Studio: Four hours per week
Note: Credit may be obtained for only one of Visual Arts 1001 and Visual Arts 1911.

**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

**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 Screen printing (available only at Grenfell Campus)* introduces visual language and concepts in conjunction with printmaking methods, materials, and techniques via projects in relief and screen printing.

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 Arts 1911
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 Arts 1911
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
Note: Attendance is required. 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. Four 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 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. Four hours of studio per week
2. Attendance is required
3. This studio course is also open to Non-Visual Arts Students

Contact information
For additional information visit our website or contact:
Gerard Curtis
gcurtis@grenfell.mun.ca
ONLINE LEARNING

Memorial University is a Canadian leader in online learning, offering over 475 online courses in 40 subject areas. Each semester, one third of on-campus students complete at least one online course to enable greater flexibility in on-campus schedules and life responsibilities. Online learning also gives students the convenience of advancing studies during work terms and summer breaks.

Administered by the Centre for Innovation in Teaching and Learning (CITL), Memorial’s online courses are designed specifically for a web-based environment, and are offered through the Brightspace learning management system at online.mun.ca. Brightspace enables students to submit assignments, complete quizzes, participate in discussion forums and class chats, and email instructors, all from one place. Courses incorporate a variety of resources such as video conferencing, interactive multimedia and other learning technologies to best present the course material in an engaging and accessible way.

The registration process for online courses is the same as the registration process for on-campus courses. For a complete listing of undergraduate and graduate online offerings at Memorial University, please visit citl.mun.ca/learning/coursesprograms.php.

What you need:

Students completing an online course require enthusiasm, dedication and drive. Additionally, students will need familiarity in using a personal computer (for file management, word processing and printing), email programs and accessing the Internet.

Completing an online course requires access to a Pentium-class PC (or higher) or a GS-based Mac (or higher) that can connect directly to the Internet or the on-campus wireless network. When on campus students can access online courses via The Commons in the QEII Library on the St. John’s campus, in the Ferriss Hodgett Library on Grenfell Campus, or at a variety of computer labs on any of Memorial’s campuses. Any additional hardware or software requirements will be included in the course listings.

Support services for online learning:

An array of support, services and resources are available to all students completing an online course. Support is available seven days a week online at citl.mun.ca/support/, by telephone (see Contact Information) or at The Commons.

Staff can assist with:

- accessing the online component of a course
- using and accessing Brightspace
- technical support for hardware/software configuration, embedded multimedia, and creating and editing course blogs
- accessing online student resources, such as the Writing Centre and Memorial Libraries.

When it’s time for mid-term and final exams, students that are registered as an on-campus student at one of Memorial’s campuses will be set up to write the exam at their respective campus. For students at a distance from a campus, Memorial University uses both face-to-face and online exam proctoring.

Regular and scheduled contact is made with students throughout the online experience. Initial telephone calls are made to new applicants, and relevant information is distributed to new and returning online students prior to the start of a semester. A general online orientation is available for new students, which includes an introduction to Brightspace, an overview of online course exam policies and procedures, information about online services and an opportunity to ask questions in real-time. Additionally, CITL works with academic departments to facilitate department-specific orientations.

Contact information:

For more information about online learning at Memorial, please contact CITL at 709 864 8700, toll free at (866) 435-1396, or visit www.citl.mun.ca.
FINANCIAL INFORMATION

Student finances

As a first-year student entering Memorial University you will be faced with certain common expenses, including tuition fees, money for books and supplies, student union fees, transportation and accommodations. In addition, you will need a certain amount of money for incidental expenses. The actual amount of money spent per semester will vary from student to student; much will depend on personal preference, health and dental opt out eligibility and mode of living. Students who depend on provincial government aid should make a special effort to budget wisely.

Cashier's Office

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, payroll deductions for graduate students, employee exemptions, accounts receivable, invoicing and receipt of all payments on Banner Finance are also duties of the Cashier's Office.

www.mun.ca/finance/sections/cashiers_office

Methods of Payment

Students can pay their tuition and fees via:

- Online Banking
- Wire Transfer
- Credit Card
- Cash/Debit Card
- Cheques
- Tuition Voucher
- Payroll Deductions
- Student Aid

Information on each of these methods of payment can be found online www.mun.ca/finance/sections/cashiers_office/methodsofpayment.php

A list of Frequently Asked Questions can be found online www.mun.ca/finance/sections/cashiers_office/cashofficefaqs.php.
Scholarships and Awards

University Centre, UC 4018
Hours: Monday - Friday, 9 a.m. – 5 p.m.
Telephone: 709 864 3956
Facsimile: 709 864 8615
scholarships@mun.ca
www.mun.ca/scholarships

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 must indicate on the application for admission if they want to be considered for early scholarship offers. Newfoundland high school students must provide a copy of their mid-term grade report to admis.doc@mun.ca.

Please note the following:

Offers will be made in late March based upon early scholarship averages in descending order of average until all funds have been offered. Please note that while only students with a 90 per cent early average will be considered for an early 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 early offers, will be confirmed in August. Any funds that are available in August will be allocated with additional (late) entrance scholarship offers for eligible students who have not already received an offer.

Newfoundland students who feel that they are eligible for scholarship consideration and students applying to Nursing and Fine Arts are the only students who should submit their midterm grade reports.

Before submitting your grade reports, you should check your eligibility for scholarship consideration. The link to the calculation process is on the admissions website to verify your eligibility.

Each student should only submit one copy of their February midterm grade reports. Please do not provide your NL high school transcripts.

Students from other provinces in Canada will be assessed based on the transcripts they submit as part of their application for admission.

Distinct undergraduate entrance scholarships are available for international students. They are academic based, and the monetary value is between $3,000 and $4,400. 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).

In addition, there are several entrance scholarships for students in special circumstances that require a separate application. A list of the above is available from the Scholarships and Awards Office at St. John’s campus or from the Student Services Office at Grenfell Campus. For more information go to: www.mun.ca/scholarships/scholarships/entrancestudents

Students can also obtain assistance on the scholarships office website www.mun.ca/scholarships with:

- continuing undergraduate scholarships and awards
- student aid other than Newfoundland and Labrador Student Aid
The Government of Canada and the Government of Newfoundland and Labrador work together to provide student financial assistance to residents of the province. The Student Financial Services Division will determine your eligibility to receive financial assistance through an assessment of your financial need. This is done by adding together your educational costs and living costs, then subtracting any resources which may be available to you. This determines your assessed need. Students are encouraged to apply early and to apply online at www.gov.nl.ca/studentaid/. Applications are reviewed 10 business days after submission. Applicants can access their account on the student aid website using the same username and password created for their online application. This account allows students to track the processing of their application, access assessment specific information requests, and review the results of their assessment.

Mailing address:

Student Financial Services Division
Department of Advanced Education, Skills and Labour
P.O. Box 8700
St. John’s, NL
A1B 4J6

Office Location:
216 Prince Phillip Drive
Coughlan College
Memorial University of Newfoundland
St. John’s campus

Students from other provinces should consult with their provincial student financial assistance program.
ACADEMIC SUPPORTS – ST. JOHN’S CAMPUS

Academic Advising Centre
Science Building, SN 4053
Hours: Monday – Friday,
8:30 a.m. – 4:15 p.m.*
Telephone: 709 864 8801
Facsimile: 709 864 2404
advice@mun.ca
www.mun.ca/advice

* Extended office hours will be available during peak registration periods. Please refer to our website for further details.

The Academic Advising Centre (AAC) aims to ensure that all new students obtain sound, accurate academic information and advice.

Our academic advisors can:

- help students understand the registration process, degree requirements, and academic regulations
- assist with course selection and program planning
- provide individualized academic advice by appointment and drop-in service
- support students through academic transitions and decisions
- connect students with on-campus resources

Visit the centre in the Science Building, SN 4053, call 709 864 8801, email advice@mun.ca, or make an appointment when you need academic advice. Information on making an appointment can be found online www.mun.ca/advice/contact.php.

Chemistry First Year Help Centre
Chemistry-Physics Building, C 2022
Hours: posted on the Chemistry 1010, 1050 and 1051 web pages and on the bulletin board outside C 4009

This help centre is specifically designed for students studying first-year chemistry courses. The staff provide one-on-one assistance with labs as well as theory and problems related to all three first year chemistry courses. Study desks are provided, however, due to space limitations, we must reserve their use to the study of chemistry. DROP BY AND LOOK AROUND.

Chemistry Resource Room
Chemistry-Physics Building, C 2010
Hours: Monday - Friday
9:30 a.m. – 4:30 p.m.*
Telephone: (709) 864-8085

* Also open on some evenings and Saturdays before tests and final exams.

The resource room offers students access to computers and reference materials that address topics in first year and higher-level chemistry courses and provides a study area for students to work on assignments, laboratory write-ups etc. An instructional assistant is on hand to help answer questions related to their chemistry courses.

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/cc/services/computerservices/computerlabs/labschedules/CP2003sched.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.

Digital Learning Centre
Telephone: 709 864 8585 (director) or dlc@mun.ca (general inquiries)
www.mun.ca/dlc

Science Building, SN 4030
Hours: Monday 9 a.m. - 5 p.m.
Tuesday 9 a.m. - 5 p.m.
Wednesday 9 a.m. - 7 p.m.
Thursday 9 a.m. - 7 p.m.
Friday 9 a.m. - 5 p.m.
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. It is also used to teach subjects such as history, political science, sociology and geography. The Digital Learning Centre 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:
1. Get help while studying for language and other Humanities and Social Sciences courses
2. Log time for academic work to fulfill the laboratory requirements of courses that have one
3. Use the super-cool iMacs and headsets
4. Speak with student staff who have gone on study abroad programs
5. 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. The DLC offers access to online resources for first year and beyond. 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

Try our facility today, our staff is always happy to help!

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](http://www.library.mun.ca)

**We are:**

**Librarians and information specialists** who can help empower your research process and support your academic goals. Come visit us at the information desk or ask us a question online. [www.library.mun.ca/askus](http://www.library.mun.ca/askus)

**The Commons** with 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** showcasing rare books, original manuscripts, personal papers, photographs, and diaries.

**The Centre for Newfoundland Studies** providing access to the largest collection of published materials about Newfoundland and Labrador in the world.

**Study Spaces** that 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](http://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
Chemistry-Physics Building, C 3071
Hours: Monday - Friday, 9 a.m. – 5 p.m.
Telephone: 709 864 8899

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.

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
Science Building, SN 2053
The Commons, Queen Elizabeth II Library
Hours: Posted each term
Telephone: 709 864 3168 (Science Building)
709 864 6159 (The Commons)
www.mun.ca/writingcentre

The Writing Centre, a free university-wide service managed by the Faculty of Humanities and Social Sciences, is staffed by 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.
CAMPUS LIFE – ST. JOHN’S CAMPUS

Bookstore
www.bookstore.mun.ca
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.

Campus Card
Campus cards can be requested online. Visit www.mun.ca/ancillary/campuscard/ for more information.

Campus Maps
www.mun.ca/campus_map
Check out campus before you even arrive!

Campus Tours
www.mun.ca/undergrad/campustours/
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.

Food Bank
www.mun.ca/campusfoodbank
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.

Food Services
www.mun.ca/residences/dining/mealplans.php
Food services on Memorial University’s St. John’s campus include food court, café, cafeteria, vending, catering; and residence dining options.

Student IT Toolbox
www.mun.ca/cc/studserv
- MUN Login
- @ Memorial Wi-Fi
- MUN mobile
- Memorial Apps Store
- my.mun.ca
- MUNmail
- Free Software

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
www.mun.ca/cep/parking
Information on parking permits, parking accommodations and pay per use parking is available online.

Volunteer
www.mun.ca/volunteer/about
Find out everything you want to know about volunteering while you are studying at the St. John’s campus.
Aboriginal Resource Office
www.mun.ca/aro
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.

Career Development and Experiential Learning
www.mun.ca/student/about/career-development-contact.php
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.

Chaplaincy
www.mun.ca/student/supports-and-resources/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.

Glenn Roy Blundon Centre – Learning Accommodations for Students with Disabilities
www.mun.ca/student/about/Blundon-Centre.php
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.

Internationalization Office
www.mun.ca/international/
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.

Welcome and Orientation
www.mun.ca/welcomeweek
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
www.mun.ca/student/student-success/work-experience/
Students can receive support to assist them in finding summer and part-time/full-time work opportunities both on/off campus.

Student Experience Office
www.mun.ca/student/student-success/
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.
Student Residences
www.mun.ca/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.

Student Support & Crises Management
www.mun.ca/student/supports-and-resources/
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.

Students’ Union
www.munsu.ca
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.

Study Abroad
www.mun.ca/goabroad
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!

- 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
www.mun.ca/counselling/home/
www.mun.ca/health/
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.
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, co-ordinates 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.
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 studentservices@grenfell.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/](http://www.gcsuonline.ca/) for more information!

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.

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.

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 co-ordinate 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 25-metre pool and 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-students/Pages/athletics.aspx, Twitter account: @GrenfellSport or call (709) 637-7315.

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 entrées available, including vegetarian, vegan, and gluten-free options. For more information, please visit 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.
GLOSSARY OF TERMS

**Academic standing:** is an enrolment status normally determined each semester by a regular evaluation procedure. This procedure is used to assess whether or not students are meeting the standards prescribed by the university.

**Academic unit:** refers to a centre, department, division, faculty, program or school, other than an administrative unit.

**Advisor:** each first-year student is assigned an advisor, who is required to assist with the planning of the student’s academic program. Regular consultation between a student and their advisor is the most effective way to ensure that an appropriate academic program is followed according to university and departmental regulations.

**Breadth of Knowledge:** The Breadth of Knowledge Requirement is designed to ensure that students have exposure to courses in a variety of disciplines and interdisciplinary areas of study within the humanities and social sciences, in order to achieve a well-rounded arts education.

**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 academic credit in recognition of work experience or knowledge gained elsewhere. Students may challenge for credit in cases where transfer credit cannot be awarded.

**Concentrations:** Students in the Bachelor of Commerce (Co-operative) program have the option of concentrating on a particular aspect of business by choosing most of their electives from a specific area such as accounting or marketing.

**Co-operative:** Programs that are described as “co-operative” include some kind of work experience (often called a “work term”) in your chosen field.

**Co-requisite course:** is a course which may be taken concurrently with, or may be 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 Reference Number:** each course will be identified by a five-digit number that may be used when registering by Memorial Self-Service. This number has no inherent significance and may change for each course from semester to semester.

**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 one credit hour normally means that the course meets for lectures one hour per week for the duration of a semester or two hours per week for the duration of a session. Unless otherwise indicated, a course normally has a credit value of three credit hours.

**Credit-restricted courses:** courses that are closely related to each other, but for which credit can be obtained for only one.

**Critical Reading and Writing (CRW):** The Critical Reading and Writing requirement (CRW) is designed to ensure that students develop university-level foundational knowledge and skills in critical reading and writing in the humanities and/or social sciences, as described in the CRW course guidelines available in the University Calendar.

**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.

**Cumulative average:** is a method of expressing a student's performance over his or her academic career. The cumulative average is calculated by computing the sum of the numeric grade in each course multiplied by the credit hour value and dividing that sum by the total number of credit hours attempted.
**Cumulative grade point average (GPA):** is a method of expressing a student's performance over his or her academic career. For each course used in the calculation, the points associated with each letter grade are multiplied by the course credit hour value. The cumulative grade point average is calculated by dividing the total number of points earned by the total number of credit hours attempted.

**Current average:** is a method of expressing a student's performance for the semester. The current average is based on final grades. The current average is calculated by computing the sum of the numeric grade in each course multiplied by the course weight and dividing that sum by the total of the course weights.

**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.

**Elective:** Any course that's not required for your program can be considered an elective. It’s a course that you choose (or elect) to take out of interest or to broaden your knowledge. Every degree program allows some room for electives.

**Equivalent courses:** are those which are determined to be equal for credit determination, even though the subject area or course numbers differ. These are normally identified with the phrase *same as*.

**Focus area:** Students who plan to become primary/elementary teachers must focus on a particular subject in addition to their courses in education. This requires a minimum of six courses and up to nine for some subjects. A list of courses needed for a focus area can be found in the University Calendar.

**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.

**General Science:** An applicant who uses General Science as an Academic Discipline may use courses chosen from the separate science disciplines in any combination from biochemistry, biology, chemistry, Earth sciences, environmental science, physics but must complete a minimum of 12 credit hours in each separate science discipline used.

**Interdisciplinary Programs:** Interdisciplinary programs allow an arts student to delve into an area of study through a variety of perspectives offered by different disciplines.

**Language Study (LS):** The Language Study (LS) requirement is 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, as described in the LS course guidelines available in the University Calendar.

**Major:** Used primarily in the faculties of Arts and Science, this describes a student’s main area of study. A major requires a minimum of 12 courses. Students also have the option of completing a major in two subject areas. Taking two majors is referred to as a double major.

**Minor:** A minor is required in the Faculty of Humanities and Social Sciences. It is a second area of study that requires the completion of at least eight courses. Students in some other faculties also have the option of doing a minor.

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

**Quantitative Reasoning and Analysis (QR):** The Quantitative Reasoning (QR) requirement is 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, as described in the QR course guidelines available in the University Calendar.
**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 Intersession and Summer 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.

**Semester**: is a period of approximately 14 consecutive weeks during which there are at least 12 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.

**Syllabus**: is an outline and summary of topics that will be covered in a course and the method of evaluation.

**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.

**Undergraduate**: That’s you – a student in a bachelor’s degree program. It can also be used to describe a bachelor’s degree program.

**Undergraduate Degree**: An undergraduate degree at Memorial takes a minimum of 120 credit hours or normally 40 courses; however, some degrees may require more. Usually it takes four years to complete a degree if you do five courses in the fall and winter of each year. Exceptions to this would include commerce (co-operative), engineering, education and pharmacy, which require an extra year.

**University Calendar**: is the text that documents the rules and regulations governing academic study at Memorial University
## Keyboard shortcuts

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<td>Read mode</td>
<td>Ctrl+ H</td>
<td>= Full Screen Mode</td>
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<tr>
<td>To exit, press ESC</td>
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<tr>
<td>Full Screen mode</td>
<td>Ctrl + L</td>
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<td>Open or hide the Navigation Panel</td>
<td>F4</td>
<td>N/A</td>
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<td>Go to First Page</td>
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<td>Go to Next Page</td>
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<td>Go to Last Page</td>
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<td>Go to specific page</td>
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</tr>
<tr>
<td>Zoom (select size)</td>
<td>Ctrl + Y</td>
<td>Command + “-”</td>
</tr>
<tr>
<td>Search</td>
<td>Ctrl + F</td>
<td>Command + F</td>
</tr>
</tbody>
</table>