Mount Allison
UNIVERSITY

# 2016-2017

# ACADEMIC CALENDAR

Sackville, New Brunswick, Canada

Mount Allison UNIVERSITY

## Administrative Offices:

Located in Centennial Hall

## Postal Address:

65 York Street
Sackville, N.B.
Canada E4L 1E4

## Telephone Numbers:

Registrar's Office
(506) 364-2269 (Phone)
(506) 364-2272 (Fax)

Student Life
(506) 364-2255

Financial Services
(506) 364-2242

President's Office
(506) 364-2300

## Mount Allison Calendars on the Web:

The Mount Allison University Academic Calendar is available online in PDF and HTML format. To view the Academic Calendar please visit http://www.mta.ca/calendar. The online Academic Calendar, as it appears on the Mount Allison web pages or as archived in the Registrar's Office, shall be the official version. The University reserves the right to make changes after the posting of an Academic Calendar. The online version will be updated to reflect any changes in March and September of each year.

## About the Calendar:

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## The Calendar

This calendar reflects the University's regulations, and other information about the University, as of the date of its publication. However, these regulations are under constant review, and the University is continually changing. It is each student's responsibility to be familiar with University regulations and other information about the University which affects him or her, whether the regulations and other information are recorded in this calendar or not, and including any changes made from time to time to the said regulations and other information.

When changes are made in academic programs, a student may elect to satisfy the requirements of the new program or if it is still reasonably possible to do so, of the program in effect at the time of first enrolment, provided no interruption in studies has occurred since that first enrolment.

Mount Allison University does not accept any responsibility for loss or damage suffered or incurred by any student as a result of the suspension or termination of services, courses or classes caused by reason of strikes, lockout, riots, weather, damage to University property or for any other cause beyond the reasonable control of Mount Allison.

Mount Allison has a non-discriminatory policy and does not discriminate against applicants and students on the basis of race, creed, colour, national or ethnic origin, sex or sexual orientation. Such a non-discriminatory policy applies also to staff.

## Sackville, New Brunswick, Canada

*Sackville is situated in the southeastern corner of New Brunswick at about the geographic centre of the Maritime provinces, 11 km from the Nova Scotia boundary. The town borders the Trans-Canada highway and is approximately 210 km from Fredericton, N.B., 450 km from Sydney, N.S. and 220 km from Halifax, N.S.*

*Train service to and from Halifax and Montreal is available. Bus lines provide daily east and west service. Greater Moncton International Airport, approximately 40 km from the campus provides service to most of North America and many locations overseas.*

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Mount Allison
UNIVERSITY

# ACADEMIC CALENDAR
# 2016-2017 edition

## Part I: General Information and Admissions

# 1 WELCOME TO MOUNT ALLISON UNIVERSITY

Mount Allison has built a reputation through the success of its students, faculty, staff, and graduates. Every year students like you come to campus from across Canada and around the world to be part of a living and learning community that fuels passions and ignites new interests.

The University offers a broad interdisciplinary knowledge base with more than 40 programs. With smaller class sizes and access to world-class faculty, students gain hands-on learning opportunities that combine practical experience, the application of learning to real-world situations, and skills development.

Along with our own award-winning faculty and resources, Mount Allison is also part of the U4 League with Acadia, Bishop's, and St. Francis Xavier Universities. The U4 League is a cooperative initiative to promote and extend common objectives of providing students with a high quality, undergraduate university education in a residential setting.

## OUR MISSION

Mount Allison University is committed to the creation and dissemination of knowledge in a community of higher learning, centred on undergraduate students, in an intimate and harmonious environment. Our teaching, research and creative enterprise are combined with extracurricular activities, in a liberal education tradition, that emphasizes development of the whole person. This integrated approach involves collaborative efforts among all members of the University community and leads to superior scholarship, cultural understanding and appreciation, personal and social maturation, leadership development and informed citizenship.

## WELL-ROUNDED STUDENTS IN A TIGHTLY-KNIT COMMUNITY

Mount Allison is an undergraduate, liberal arts and science university with an enrolment of approximately 2,300 full-time students. It has preserved the character of a compact, scholarly community to foster excellence in teaching, mentoring, and student-centred research.

Students enjoy a close-knit community along with diverse extracurricular experiences. Along with a dynamic athletics program with varsity, club, and intramural offerings, Mount Allison has approximately 150 student-run clubs and societies.

Mount Allison has one of the strongest records among Canadian universities of Rhodes Scholars (53 in 2015) and enjoys a high number of external awards for both scholarships and research among its students and faculty members.

Notable alumni include: artists Mary Pratt and Christopher Pratt and the late Alex Colville; national broadcaster Ian Hanomansing; opera singer Sally Dibblee; Harvard Medical School professor Dr. Marc Pelletier, performance consultant and psychologist Dr. Kimberley Amirault-Ryan, award-winning singer/songwriter David Myles; and former lieutenant-governors of New Brunswick Margaret McCain, Marilyn Trenholme Counsell, and Herménégilde Chiasson.

## THE FACULTY

The University's faculty is talented and dedicated, exemplifying a strong blend of teaching and research. Mount Allison faculty ranked first in the country for faculty awards (Maclean's 2016 University Rankings) and seven professors have been named National 3M Teaching Fellows, Canada's only national teaching distinction, while at Mount Allison.

Along with teaching, many faculty members also pursue research projects directly with their students, giving Mount Allison students unprecedented research experience at the undergraduate level.

## AN EDUCATION SUITED TO THE 21ST CENTURY

Mount Allison offers Bachelor's degrees in Arts, Science, Commerce, Fine Arts, and Music, as well as Master's degrees in sciences and Certificates in Bilingualism.

The Bachelor of Arts and Bachelor of Science degrees are achieved through completion of one of a specialized honours program; a major plus a minor; a double major; or a general degree of three minors. In addition, each Arts and Science student takes at least six credits from each of four disciplinary areas of Arts and Letters, Humanities, Social Sciences, and Science.

Prospective students often wonder about the purpose of receiving a Bachelor's degree from a liberal arts institution in a globally competitive economy. The usefulness of a Bachelor's degree is not only found in personal development but also in professional areas. A degree from Mount Allison, or a few carefully selected courses or electives as part of a Mount Allison degree, may permit a student admission to a professional program. Some of these programs include medicine, dentistry, pharmacy, veterinary medicine, law, education, theology, social work, audiology and speech therapy, occupational physiotherapy, optometry, architecture, and nutritional programs as well as many others. These professional programs may be accessed upon successful completion of courses or a degree from Mount Allison and in combination with other requirements as appropriate (e.g. LSAT, MCAT, GRE, etc.).

## A REPUTATION FOR LEADERSHIP

For more than a century, Mount Allison has been recognized as a leader. Mount Allison was the first university in the British Empire to confer a Bachelor's degree to a woman - Grace Annie Lockhart received a Bachelor of Science in 1875. It was also the first university in Canada to grant a Bachelor of Arts to a woman, Harriet Starr Stewart in 1882.

Mount Allison boasts the oldest university art gallery in Canada; was the first Canadian university to offer a Bachelor of Fine Arts and a Canadian Studies program; and it is a pioneer in the establishment of services for students with learning disabilities through the award-winning Meighen Centre for Learning Assistance and Research. It has consistently been ranked among the top undergraduate universities in Canada by Maclean's magazine since the rankings' inception in 1991. A high-calibre faculty, outstanding students, and financial stability are among the reasons why.

## HISTORICAL SKETCH

Founder Charles Frederick Allison's grandfather emigrated from Ireland in the late 1700s, as a result of a dinner with the local tax collector. Wanting to impress him, the family set the table with their one valuable possession, a set of silver spoons. After entertaining their guest, the Allison's were informed that if they could afford silver spoons, they

could afford to pay more taxes. They left Ireland shortly thereafter. The spoons are on display in the R.P. Bell Library at Mount Allison.

In June 1839, Charles Frederick Allison, Sackville merchant, proposed to the Wesleyan Methodists that a school of elementary and higher learning be built. His offer to purchase a site in Sackville, to erect a suitable building for an academy, and to contribute operating funds of 100 pounds a year for 10 years was accepted. The formal opening of the Mount Allison Academy for boys took place in 1843. In 1854, a branch institution for girls, opened to complement the Wesleyan Academy for boys. In July 1862, the degree-granting Mount Allison College was organized. The first two students graduated in May 1863. For nearly a century, Mount Allison functioned as three distinct, mutually enriching parts: the College proper, the Boys' Academy and the Ladies College.

Mount Allison has a long and proud tradition, and part of that tradition has been the ability to evolve and to adapt to new and changing demands. It is very much a university of the 21st century, while remaining the direct and recognizable descendant of the first Wesleyan Academy of 1843.

## ONE OF THE MOST BEAUTIFUL CAMPUSES IN CANADA

The Mount Allison calendar for 1851 declared Sackville a "pleasant and healthy" community, "easy of access from all parts of the Lower Provinces." The Mount Allison buildings are "elegant, spacious and comfortable, and delightfully situated upon an elevation of ground." The facilities offered were, "all that could be desired, either for the enterprising Teacher to aid him in his work of instruction, or to the ambitious Student to facilitate his honourable progress." Writing styles have changed since then, but Mount Allison still continues to take pride in its campus.

Recent years have witnessed ongoing improvements to the academic facilities, including the opening of the Purdy Crawford Centre for the Arts and upgrades to a number of classrooms. Unlike some other institutions, this University has never moved from its original campus; it has expanded in area, but is still centred on that rise of ground named "Mount Allison" after the founder. The traditional use of red and grey local sandstone, plus continual efforts to beautify and upgrade facilities, offers a setting that honours the past, yet embraces the future.

## UNIVERSITY CHANCELLORS

| | |
|---|---|
| Ralph Pickard Bell | 1960-1968 |
| Harold Roy Crabtree | 1968-1977 |
| Angus James MacQueen | 1977-1985 |
| Margaret Norrie McCain | 1986-1994 |
| Harold Purdy Crawford | 1995-2000 |
| James J. Keith | 2001-2005 |
| John Bragg | 2005-2010 |
| Peter Mansbridge | 2010- |

## UNIVERSITY PRESIDENTS

| | |
|---|---|
| Humphrey Pickard | 1862-1869 |
| David Allison | 1869-1878 |
| James Robert Inch | 1878-1891 |
| David Allison | 1891-1911 |
| Byron Crane Borden | 1911-1923 |
| George Johnstone Trueman | 1923-1945 |
| William Thomas Ross Flemington | 1945-1962 |
| William Stanley Hayes Crawford (Acting) | 1962-1963 |
| Laurence Harold Cragg | 1963-1975 |
| William Stanley Hayes Crawford | 1975-1980 |
| Guy Robertson MacLean | 1980-1986 |
| Donald Otis Wells | 1986-1990 |
| Sheila A. Brown (Interim) | 1990-1991 |
| Ian David Campbell Newbould | 1991-2001 |
| A. Wayne Mackay | 2001-2004 |
| Kenneth L. Ozmon | 2004-2006 |
| Robert M. Campbell | 2006- |

## ACCREDITATION

Mount Allison University is a member of Universities Canada

# 2 GLOSSARY OF ACADEMIC TERMS AND CALENDAR OF EVENTS

## 2.1 DEFINITIONS

This page provides a list of commonly used academic terms found in this calendar. The definitions provided are intended to help readers understand the outlines of academic regulations and programs which follow.

**Academic Dismissal**
Denial of all registration privileges for a minimum of three academic years because of failure to meet academic standards

**Academic Distinction**
A designation awarded to any student completing an undergraduate degree with an overall Grade Point Average of at least 3.7 on all courses attempted

**Academic Probation**
Permission to continue registration, subject to meeting terms required for continuing on Probation until Good Standing is achieved

**Academic Session**
The academic year upon which academic standing is assessed including the Spring/Summer, Fall and Winter terms

**Academic Suspension**
Denial of all registration privileges for a specified period of time because of failure to meet academic standards

**Academic Term**
Either the May to August or the September to December or the January to April portion of an academic session

**Advanced Placement**
Registration at an advanced level in a course because of previously acquired background knowledge. Unlike advanced standing, this permission is not granted with credits awarded for the previously acquired knowledge

**Advanced Standing**
Registration at an advanced level in a discipline because of transfer credits granted for courses completed at another recognized institution

**Audit**
Registration status of a student who attends class(es) with written permission of the course instructor. Students auditing a course will not write final examinations or receive a grade for the course. See calendar regulation [10.3.8]

**Continuous Enrolment**
Registration in at least one term (including Spring/Summer, Fall and Winter terms) in consecutive academic sessions without interruption.

**Corequisite**
A course which must be taken at the same time as another course

**Credit**
The weight value assigned to a course. A course that normally meets for 3 hours each week throughout the academic year is worth 6 credits; a course that normally meets for 3 hours each week in one term is worth 3 credits. Ensemble performance courses in Music which meet on a regular basis throughout the academic year are worth 1 credit

**Cross-listed Course**
A course listed for credit under more than one discipline. The course may only be taken once for credit

**Cumulative Grade Point Average (CGPA)**
An average calculated by dividing the total number of grade points obtained (credit hours x grade points) by the number of credit hours attempted during all academic sessions

**Discipline**
A subject area or branch of knowledge

**Elective**
A credit course which is outside of the specialization component of a program

**Exclusion**
Students may not count for credit toward a degree any course which is listed as an exclusion for a course in which they are currently registered or which they have already passed.

**Faculty**
a) The academic teaching staff of a university and b) A grouping of related academic departments administered by a Dean

**Full-time Student**
A student enrolled for the equivalent of 9 or more credits per term

**Good Standing**
An academic status achieved by attaining a Session Grade Point Average (SGPA) of at least 1.5 and a Cumulative Grade Point Average (CGPA) of at least 1.5

**GPA (Grade Point Average)**
An average calculated by dividing the total number of grade points obtained (credit hours x grade points) by the number of credit hours attempted

**Honours Program**
A specialized Arts, Commerce or Science degree program which must be completed at an above average academic level

**Interdisciplinary Studies**
A group of related courses from various disciplines

**Letter of Permission**

An official document granting prior approval to take a course from another university for credit to a Mount Allison program

**Major**

The discipline(s) or area of specialization selected to fulfill part of the requirements for most Arts, or Science degrees

**Minor**

A secondary discipline(s) or area of specialization selected to fulfill part of the requirements for most Arts, or Science degrees

**Performance Indicator**

An indicator of a student's progress as Satisfactory (TGPA of at least 1.5) or Unsatisfactory (TGPA of less than 1.5) at the end of each academic term. This is not an academic standing and is not recorded on the transcript. An indicator of Unsatisfactory serves as a warning that a student might be in academic jeopardy if grades do not improve and academic advising should be sought.

**Prerequisite**

Many courses require knowledge of material covered in other courses to ensure that a student has the background necessary to complete the course successfully. A prerequisite states the requirement that must be completed or waived before registration in a course is permitted. This requirement may consist of one or both of the following:

a) having a certain registration status (i.e. in a particular program or having a specified standing); or
b) having earned credit for a course or combination of courses. Students must obtain a grade of at least C- in each course used to fulfill this requirement.

**Note:** A student who does not have the stated prerequisite must receive written permission from the appropriate Department Head or Program Director to waive the requirement.

**Registration**

The process of choosing, enrolling in and paying fees for courses taken in an academic session

**Session Grade Point Average (SGPA)**

An average calculated by dividing the total number of grade points obtained (credit hours x grade points) by the number of credit hours attempted during the academic session

**Term Grade Point Average (TGPA)**

An average calculated by dividing the total number of grade points obtained (credit hours x grade points) by the number of credit hours attempted during the academic term

**Transcript**

An official document that lists the entire academic record of a student at an educational institution

**Transfer Credit**

Credit granted on a degree and/or certificate for work completed at another recognized institution. Transfer credits are not used in calculation of any Grade Point Average. The term 'non-designated' transfer credits indicates that no direct equivalency exists at Mount Allison but the transfer credit is granted and can be applied toward the credits required for a Mount Allison degree.

## 2.2 CALENDAR OF EVENTS 2016-2017

**Note:** Dates in bold text are those approved by Senate; dates in bold text with an asterisk are subject to change; dates in italics are either determined by calendar or other regulations; holidays are in regular text.

| | | |
|---|---|---|
| *May 2* | *Monday* | *Spring/Summer term courses begin* |
| *May 6* | *Friday* | *Last day for change in registration for Spring/Summer term courses* |
| *May 6* | *Friday* | *Registration Deposit Due for Fall/Winter terms - new students; Residence Deposit due for new and returning students requiring residence accommodation* |
| *May 9* | *Monday* | *Last day to make fee payment without penalty for Spring/Summer term courses* |
| *May 16* | *Monday* | *2016 Convocation. Spring term classes continue as scheduled* |
| May 23 | Monday | Victoria Day - no classes, university offices closed |
| *May 27* | *Friday* | *End of withdrawal period for Spring/Summer term courses (excluding correspondence courses)* |
| *June 6* | *Monday* | *Last day for returning students to pay Registration Deposit for Fall/Winter terms without penalty* |
| *June 17* | *Friday* | *Last day of classes for Spring/Summer term* |
| *July 4* | *Monday* | *End of withdrawal period for Spring/Summer term correspondence courses* |
| *Aug. 29* | *Monday* | *Arrival of new international students, international orientation begins* |
| *Sept. 1* | *Thursday* | *Arrival of new students, Commencement* |
| *Sept. 2* | *Friday* | *Beginning of orientation, University Assembly (morning)* |
| *Sept. 2* | *Friday* | *Deadline for October 2016 Graduation Application* |
| *Sept. 3* | *Saturday* | *Correspondence Exams for eligible students* |
| *Sept. 4* | *Sunday* | *Returning students may enter residence* |
| Sept. 5 | Monday | Labour Day — no classes, University offices closed |
| **Sept. 6** | **Tuesday** | **Fall term classes begin** |
| **Sept. 13** | **Tuesday** | **Meeting of Senate** |
| *Sept. 16* | *Friday* | *Last day for change in registration in Fall term 3 credit courses and in year long 1, 3, and 6 credit courses* |
| *Sept. 19* | *Monday* | *Last day to make Fall fee payment without penalty* |
| **Sept. 27*** | **Tuesday** | **Meeting of Faculty Council** |
| *Sept. 30* | *Friday* | *Deadline for May 2017 Graduation Application* |
| Oct. 10 | Monday | Thanksgiving Day — no classes, University offices closed |
| **Oct. 11** | **Tuesday** | **Meeting of Senate and approval of October Degree candidates** |
| *Oct. 14* | *Friday* | *University Open House* |
| **Oct. 25*** | **Tuesday** | **Meeting of Faculty Council** |
| *Oct. 28* | *Friday* | *End of withdrawal period for Fall term 3 credit courses; deadline by which work worth at least 20% of the final grade is to be evaluated and returned to students* |
| **Nov. 7 - Nov. 11** | **Monday to Friday** | **Fall Study Break — no classes** |
| Nov. 11 | Friday | Observance of Remembrance Day — University offices closed |
| *Nov. 14* | *Monday* | *Deadline for registration and residence deposits for students admitted for the Winter term* |
| **Nov. 15** | **Tuesday** | **Meeting of Senate** |
| *Nov. 28* | *Monday* | *No in-class or take-home tests worth more than 10% of the final grade, and no final tests or examinations with the exception of laboratory examinations may be scheduled after this date* |
| **Nov. 29*** | **Tuesday** | **Meeting of Faculty Council** |
| **Nov. 29** | **Tuesday** | **Last day of classes for Tuesday-only classes** |
| **Nov. 30** | **Wednesday** | **Last day of classes for Wednesday-only classes** |
| **Dec. 1** | **Thursday** | **Last day of classes for TTH, Thursday-only classes** |
| **Dec. 2** | **Friday** | **Last day of classes for Friday-only classes** |
| **Dec. 5** | **Monday** | **MWF, MW, and M only classes continue as scheduled** |
| **Dec. 6** | **Tuesday** | **Make-up day for Thanksgiving Monday (Last day of classes for MWF, MW, Monday-only classes)** |
| **Dec. 6** | **Tuesday** | **Meeting of Senate** |
| **Dec. 8** | **Thursday** | **Final exam period begins for Fall term 3 credit courses, including correspondence courses and mid-year tests in 3 and 6 credit full year courses** |
| **Dec. 17** | **Saturday** | **Last day for exams** |
| Dec. 23 | Friday | University closed for the holidays |
| **2017** | | |
| *Jan. 2* | *Monday* | *University offices open* |
| *Jan. 8* | *Sunday* | *Returning students may enter residence* |
| **Jan. 9** | **Monday** | **Winter term classes begin. Deferred exams in Fall term 3 credit courses begin in evening** |
| **Jan. 17** | **Tuesday** | **Meeting of Senate** |
| *Jan. 20* | *Friday* | *Last day for change of registration in Winter term 3 credit courses* |
| *Jan. 20* | *Friday* | *End of withdrawal period for year long 1, 3, and 6 credit courses* |
| *Jan. 23* | *Monday* | *Last day to pay account balance without penalty* |
| **Jan. 31*** | **Tuesday** | **Meeting of Faculty Council** |

| | | |
|---|---|---|
| *Feb. 6* | *Monday* | *Deadline for returning students to apply to transfer to the B.F.A. program* |
| **Feb. 14** | **Tuesday** | **Meeting of Senate** |
| **Feb. 20 - Feb. 24** | **Monday to Friday** | **Winter study break — no classes** |
| *Feb. 27* | *Monday* | *Deadline for returning students to apply to transfer to B.Mus. program* |
| **Feb. 28*** | **Tuesday** | **Meeting of Faculty Council** |
| *Mar. 3* | *Friday* | *University Open House* |
| *Mar. 3* | *Friday* | *End of withdrawal period for Winter term 3 credit courses; deadline by which work worth at least 20% of the final grade is to be evaluated and returned to students* |
| **Mar. 14** | **Tuesday** | **Meeting of Senate** |
| **Mar. 28*** | **Tuesday** | **Meeting of Faculty Council** |
| *Mar. 31* | *Friday* | *No in-class or take-home tests worth more than 10% of the final grade, and no final tests or examinations with the exception of laboratory examinations may be scheduled after this date* |
| **Apr. 3** | **Monday** | **Last day of classes for Monday-only classes** |
| **Apr. 4** | **Tuesday** | **Last day of classes for Tuesday-only classes. Joint meeting of Faculty Council and Senate** |
| **Apr. 5** | **Wednesday** | **Last day of classes for MW, Wednesday-only classes** |
| **Apr. 6** | **Thursday** | **Last day of classes for TTH, Thursday only classes** |
| **Apr. 7** | **Friday** | **Last day of classes for MWF, Friday -only classes only classes** |
| *Apr. 7* | *Friday* | *Deadline for returning students to apply to transfer to B.A., B.Sc. or B.Comm programs* |
| **Apr. 11** | **Tuesday** | **Final exam period begins for all Winter term and and full year courses including correspondence courses** |
| Apr. 14 | Friday | Good Friday — no exams, University offices closed |
| **Apr. 21** | **Friday** | **Last day for exams** |
| **May 11** | **Thursday** | **Meeting of Faculty Council (morning); Meeting of Senate (afternoon)** |
| **May 15** | **Monday** | **University Convocation** |

## 2.3 PROVISIONAL CALENDAR OF EVENTS 2017-2018 (SUBJECT TO CHANGE)

**Note:** Dates in bold text are those approved by Senate; dates in bold text with an asterisk are subject to change; dates in italics are either determined by calendar or other regulations and holidays are in regular text.

| | | |
|---|---|---|
| *May 1* | *Monday* | *Spring/Summer term courses begin* |
| *May 5* | *Friday* | *Last day for change in registration for Spring/Summer term courses* |
| *May 5* | *Friday* | *Registration Deposit Due for Fall/Winter terms - new students; Residence Deposit due for new and returning students requiring residence accommodation* |
| *May 8* | *Monday* | *Last day to make fee payment without penalty for Spring/Summer term courses* |
| *May 15* | *Monday* | *2017 Convocation. Spring term classes continue as scheduled* |
| May 22 | Monday | Victoria Day - no classes, university offices closed |
| *May 26* | *Friday* | *End of withdrawal period for Spring/Summer term courses (excluding correspondence courses)* |
| *June 5* | *Monday* | *Last day for returning students to pay Registration Deposit for Fall/Winter terms without penalty* |
| *June 16* | *Friday* | *Last day of classes for Spring/Summer term* |
| *June 30* | *Friday* | *End of withdrawal period for Spring/Summer term correspondence courses* |
| *Aug. 28* | *Monday* | *Arrival of new international students, international orientation begins* |
| *Aug.31* | *Thursday* | *Arrival of new students, Commencement* |
| *Sept.1* | *Friday* | *Beginning of orientation, University Assembly (morning), Deadline for October 2017 Graduation Application* |
| *Sept.2* | *Saturday* | *Correspondence Exams for eligible students* |
| *Sept.3* | *Sunday* | *Returning students may enter residence* |
| Sept. 4 | Monday | Labour Day — no classes, university offices closed |
| **Sept. 5** | **Tuesday** | **Fall term classes begin** |
| **Sept. 12** | **Tuesday** | **Meeting of Senate** |
| *Sept. 15* | *Friday* | *Last day for change in registration in Fall term 3 credit courses and in year long 1, 3, and 6 credit courses* |
| *Sept. 18* | *Monday* | *Last day to make Fall fee payment without penalty* |
| **Sept. 26*** | **Tuesday** | **Meeting of Faculty Council** |
| *Sept. 29* | *Friday* | *Deadline for May 2018 Graduation Application* |
| Oct. 9 | Monday | Thanksgiving Day — no classes, university offices closed |
| **Oct. 10** | **Tuesday** | **Meeting of Senate and approval of October Degree candidates** |
| *Oct. 13* | *Friday* | *University Open House* |
| **Oct. 24*** | **Tuesday** | **Meeting of Faculty Council** |
| *Oct. 27* | *Friday* | *End of withdrawal period for Fall term 3 credit courses; deadline by which work worth at least 20% of the final grade is to be evaluated and returned to students* |
| **Nov. 6 - Nov. 10** | **Monday to Friday** | **Fall Study Break — no classes** |
| Nov. 10 | Friday | Observance of Remembrance Day—university offices closed |
| *Nov. 13* | *Monday* | *Deadline for registration and residence deposits for students admitted for the Winter term* |
| **Nov. 14** | **Tuesday** | **Meeting of Senate** |
| *Nov. 27* | *Monday* | *No in-class or take-home tests worth more than 10% of the final grade, and no final tests or examinations with the exception of laboratory examinations may be scheduled after this date* |
| **Nov. 28*** | **Tuesday** | **Meeting of Faculty Council** |
| **Nov. 28** | **Tuesday** | **Last day of classes for Tuesday-only classes** |
| **Nov. 29** | **Wednesday** | **Last day of classes for Wednesday-only classes** |
| **Nov. 30** | **Thursday** | **Last day of classes for TTh, Thursday-only classes** |
| **Dec. 1** | **Friday** | **Last day of classes for Friday-only classes** |
| **Dec. 4** | **Monday** | **MWF, MW, Monday- only classes continue as scheduled** |
| **Dec. 5** | **Tuesday** | **Make-up day for Thanksgiving Monday (Last day of classes for MWF, MW, Monday-only classes)** |
| **Dec. 5** | **Tuesday** | **Meeting of Senate** |
| **Dec. 7** | **Thursday** | **Final exam period begins for Fall term 3 credit courses, including correspondence courses and mid-year tests in 3 and 6 credit full year courses** |
| **Dec. 16** | **Saturday** | **Last day for exams** |
| Dec. 23 | Saturday | University closed for the holidays |
| **2018** | | |
| *Jan. 3* | *Wednesday* | *University offices open* |
| *Jan. 7* | *Sunday* | *Returning students may enter residence* |
| **Jan. 8** | **Monday** | **Winter term classes begin. Deferred exams in Fall term 3 credit courses begin in evening** |
| **Jan. 16** | **Tuesday** | **Meeting of Senate** |
| *Jan. 19* | *Friday* | *Last day for change of registration in Winter term 3 credit courses* |
| *Jan. 19* | *Friday* | *End of withdrawal period for year long 1, 3, and 6 credit courses; deadline by which work worth at least 20% of the* |

| | | |
|---|---|---|
| | | *final grade is to be evaluated and returned to students* |
| *Jan. 22* | *Monday* | *Last day to pay account balance without penalty* |
| **Jan. 30*** | **Tuesday** | **Meeting of Faculty Council** |
| *Feb. 5* | *Monday* | *Deadline for returning students to apply to transfer to the B.F.A. program* |
| **Feb. 13** | **Tuesday** | **Meeting of Senate** |
| **Feb. 19 - Feb. 23** | **Monday to Friday** | **Winter Study Break — no classes** |
| *Feb. 26* | *Monday* | *Deadline for returning students to apply to transfer to B.Mus. program* |
| **Feb. 27*** | **Tuesday** | **Meeting of Faculty Council** |
| *Mar. 2* | *Friday* | *University Open House* |
| *Mar. 2* | *Friday* | *End of withdrawal period for Winter term 3 credit courses; deadline by which work worth at least 20% of the final grade is to be evaluated and returned to students* |
| **Mar. 13** | **Tuesday** | **Meeting of Senate** |
| **Mar. 27*** | **Tuesday** | **Meeting of Faculty Council** |
| Mar. 30 | Friday | Good Friday — no classes, university closed |
| *Mar. 30* | *Monday* | *No in-class or take-home tests worth more than 10% of the final grade, and no final tests or examinations with the exception of laboratory examinations may be scheduled after this date* |
| **Apr. 2** | **Monday** | **Last day of classes for Monday-only classes** |
| **Apr. 3** | **Tuesday** | **Last day of classes for Tuesday-only classes. Joint meeting of Faculty Council and Senate** |
| **Apr. 4** | **Wednesday** | **Last day of classes for MW, Wednesday-only classes** |
| **Apr. 5** | **Thursday** | **Last day of classes for TTH, Thursday-only classes** |
| **Apr. 6** | **Friday** | **MWF, Friday-only classes continue as scheduled** |
| **Apr. 9** | **Monday** | **Make-up day for Good Friday, Last day of classes for MWF, Friday-only classes** |
| *Apr. 9* | *Monday* | *Deadline for returning students to apply to transfer to B.A., B.Sc. or B.Comm programs* |
| **Apr. 12** | **Thursday** | **Final exam period begins for all Winter term and and full year courses including correspondence courses** |
| **Apr. 21** | **Saturday** | **Last day for exams** |
| **May 10** | **Thursday** | **Meeting of Faculty Council (morning); Meeting of Senate (afternoon)** |
| **May 14** | **Monday** | **University Convocation** |

# 3 ADMISSION

## 3.1 CONTACT INFORMATION

All correspondence regarding admission should be submitted to the Registrar's Office, Mount Allison University, 62 York St., Sackville, NB, E4L 1E2; phone (506) 364-2269; e-mail <**mailto:admissions@mta.ca**>. Full information on admissions procedures are available from the Registrar's Office and on the web at <**http://www.mta.ca/apply**>

## 3.2 ADMISSION TO THE UNIVERSITY

### 3.2.1 Admission Criteria

Mount Allison University recognizes a strong academic performance at the high school level as the primary indicator of university-level success. It also recognizes the added potential of those students with a well-balanced record of academic and extra-curricular activities. In making admissions decisions, both high school marks and other activities are considered. The University is interested in applicants possessing a strong academic record, leadership skills, a high level of commitment, and the potential for personal growth. Among the additional information requested from applicants will be evidence of extra-curricular involvement, volunteer activities in school and in the community, work experiences, and letters of reference.

### 3.2.2 Students with Disabilities

Students with disabilities receive assistance from the Meighen Centre after presenting appropriate documentation. They are encouraged to identify themselves on the Application for Admission and to contact the Meighen Centre as early as possible so that their needs can be addressed. Students applying to the University should meet all admission criteria. See Calendar section 3.3.2 Minimum Grade/Average. Visit the Meighen Centre site at <**www.mta.ca/meighen**>.

### 3.2.3 Early Admission

a) Students who achieve an 80% final average on five academic courses in their grade 11 (or equivalent) year may be offered a conditional acceptance, provided they have successfully completed a grade 11 (or equivalent) academic English course.
b) Students applying to the Bachelor of Commerce program or Bachelor of Science program must provide proof of enrollment in the required university preparatory grade 12 (or equivalent) courses to be offered a conditional acceptance to the program. If proof of enrollment in required courses for a the Bachelor of Commerce or Bachelor of Science program are not provided but minimum early admission requirements are met, a conditional acceptance to the Bachelor of Arts program may be offered.
c) Students applying for early admission to the Bachelor of Fine Arts program or Bachelor of Music program who satisfy the minimum early admission requirements may be offered a conditional acceptance to the Bachelor of Arts program with acceptance to the Bachelor of Fine Arts program pending portfolio review by the department and acceptance to the Bachelor of Music program pending audition/interview and theory test review by the department.

See Calendar section 3.4.2 Requirements for Specific Programs

### 3.2.4 Refusal of Admission

The University reserves the right to reject any application for admission on the basis of the overall record even if all entrance requirements are satisfied.

### 3.2.5 Special Circumstances

In special circumstances, a student who does not meet our entrance requirements but provides evidence of academic promise at the university level may be admitted.

## 3.3 MINIMUM GENERAL ADMISSION REQUIREMENTS

### 3.3.1 Provincial Requirements

Students registering at Mount Allison are expected to have graduated from high school at the university preparatory level. In New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland, Ontario, Manitoba, Saskatchewan, Alberta, British Columbia, the Northwest Territories, the Yukon, and Nunavut, this is Grade 12. Students from Quebec will be expected to have completed either Grade 12 Senior Matriculation or Grade 11 and one year of a CEGEP academic program.

### 3.3.2 Minimum Grade/Average

For an application to be considered, during the final two years of preparatory work a minimum grade of 65% must have been achieved on each academic course considered for admission. Meeting the minimum requirements guarantees only that the application will be considered; normally, students who are admitted have averages that are above the minimum.

## 3.4 ADDITIONAL ADMISSION REQUIREMENTS

### 3.4.1 University Preparatory Courses

All students must have successfully completed a university preparatory English course among their university preparatory courses. Whenever possible, students should anticipate their first year of university study and take the appropriate preparatory courses. (See Section 3.5). The University strongly recommends that students undertake a well-balanced preparatory year that includes courses in the Humanities, Mathematics, Sciences and the Social Sciences.

### 3.4.2 Requirements for Specific Programs

Students are advised to complete the following courses for specific programs:

**Bachelor of Arts:** University preparatory English is required and it is strongly recommended that university preparatory courses in the Humanities, Mathematics, Sciences and the Social Sciences be completed.

**Bachelor of Music:** University preparatory English is required and it is strongly recommended that university preparatory courses in the Humanities, Mathematics, Sciences and the Social Sciences be completed. All Music applicants must have a satisfactory audition/interview and pass a one-hour test in elementary theory (materials of Music).

**Bachelor of Fine Arts:** University preparatory English is required and it is strongly recommended that university preparatory courses in the Humanities, Mathematics, Sciences and the Social Sciences be completed. All Fine Arts applicants are required to present a portfolio of their previous artwork for assessment.

**Bachelor of Science:** University preparatory English and science preparatory Mathematics are required and it is strongly recommended that two university preparatory courses in the Sciences, and one in either Humanities or Social Sciences, be completed.

**Bachelor of Commerce:** University preparatory English and science preparatory Mathematics are required and it is strongly recommended that university preparatory courses in the Humanities, Mathematics, Sciences and the Social Sciences be completed.

To view admission requirements, please see **<www.mta.ca/requirements>**

### 3.4.3 Provincial Guidelines

Students are advised of the following provincial guidelines for admission, including the above program-specific requirements:

**British Columbia, Yukon:** Four provincially-examinable grade 12-level subjects

**Alberta, Northwest Territories, Nunavut:** Four academic 30- or 31-level subjects of which at least four are departmentally examinable

**Saskatchewan:** Five academic 30-level subjects

**Manitoba:** Five academic 40- or 41-level or 45-level subjects

**Ontario:** Five academic grade 12-level subjects, a combination of U and M courses

**Quebec:** Five academic grade 12-level subjects, or Grade 11 and one year of an academic CEGEP program. Only CEGEP courses with a credit value of 2.00 or higher will be considered for admission

**New Brunswick:** Five academic grade 12-level subjects

**Prince Edward Island:** Five academic 600-level subjects

**Nova Scotia:** Five academic grade 12-level subjects

**Newfoundland:** Ten credits in academic 3000- or 4000-level subjects. English Language 3101 and one of Thematic Literature 3201 or Literary Heritage 3202 must be included

To view admission requirements, please see **<www.mta.ca/requirements>**

## 3.5 NOTES ON ENTRY TO FIRST-YEAR COURSES

a) Students enrolling in Chemistry 1001 should normally have completed a university preparatory-level* course in Chemistry.
b) Students enrolling in Computer Science 1631 should normally have completed a university preparatory-level* course in Mathematics.
c) Students enrolling in Economics 1001 and 1011 should normally have completed a university preparatory-level* course in Mathematics.
d) Students enrolling in Mathematics 1111 should normally have completed a university preparatory-level* course in Mathematics designed to prepare them for university calculus.
e) Students enrolling in Physics 1051 should normally have completed a university preparatory-level* course in Mathematics.

*See section 3.3

## 3.6 REQUIREMENTS FOR NON-CANADIAN EDUCATION SYSTEMS

### 3.6.1 American School System

Students studying an American high school curriculum will be considered for admission provided they have successfully completed a selection of university/college preparatory courses and graduated from an accredited high school. The required academic standing is comparable to those outlined in sections 3.3 and 3.4. Scholastic Achievement Test (SAT) results are not required, but students are encouraged to submit their results.

### 3.6.2 General Certificate of Education (GCE)

For those studying towards the General Certificate of Education or the International General Certificate of Secondary Education (IGCSE), (e.g. in the United Kingdom, West Indies, Bermuda, East and West Africa, Hong Kong) the University requires a minimum of two subjects at the Advanced 'A' Level and three at the Ordinary 'O' Level, or three at the 'A' Level and one at the 'O' level, with an overall average of 'C' and no subject below a 'D' grade. Two Advanced Standard (AS) Level courses may be used in place of one Advanced Level course.

### 3.6.3 International Baccalaureate

Students pursuing an International Baccalaureate (IB) diploma program must include three courses in each of the higher and standard levels, with a minimum score of 4 in each subject and a minimum overall score of 28 points (excluding bonus points). Credit may be granted for specific higher level courses with minimum scores of 5 points (see section 3.9.1).

### 3.6.4 Baccalaureate

Students following France's system of education, must complete the requirements for the Baccalaureate with a minimum academic standing of 'Assez Bien'.

### 3.6.5 Other Educational Systems

Students studying in other educational systems are expected to satisfy the university admissions requirements of their own country, and must demonstrate a high level of accomplishment. To view the requirements for international applicants please see **<www.mta.ca/requirements>**.

## 3.7 ENGLISH REQUIREMENTS

As English is the primary language of instruction at Mount Allison University, students must possess a mastery of English sufficient to communicate effectively, follow lectures, and write assignments and examinations in English. All applicants will be required to provide evidence of English language proficiency. This evidence may take one of the following forms:

a) Successful completion of at least three years of instruction in Canada at a secondary institution as recognized by Mount Allison University
b) Successful completion of at least 30 credit hours (or equivalent) at a post-secondary institution as recognized by Mount Allison University where English is the primary language of instruction
c) TOEFL score of 580 (paper test) or 90 (internet test) with no band score lower than 20

d) Michigan English Language Assessment Battery MELAB score of 85%
e) International English Language Testing System (IELTS) score of 6.5 with no band score lower than 5
f) Completion of the ELS USA Program with a score of 109
g) Canadian Academic English Language Assessment CAEL with an overall score of 70, and no sub-test result below 60
h) Certificate of Proficiency in English (CPE) by University of Cambridge English for Speakers of Other Languages (ESOL) with a minimum grade of 'C'
i) Certificate of Advanced English (CAE) by University of Cambridge English for Speakers of Other Languages (ESOL) with a minimum grade of 'B'
j) Pearson Test of English Academic (PTE Academic) score of at least 60 with no individual score less than 51.

### 3.7.1 English Language Training Partners

Applicants who require enhanced English language proficiency have the option of taking advantage of Mount Allison's partnership with one of partner language schools. An advantage to such students of these partnerships is that Mount Allison is able to grant conditional admission, which enables students to begin their visa application processes before completion of the language program.

**ILI: International Language Institute (Halifax, NS):** Successful completion of ILI's University Preparatory (UP) program will allow students to meet Mount Allison's English language proficiency requirements.

**KAPLAN: Kaplan International English (Vancouver, BC; Toronto, ON):** Successful completion of Kaplan International English's University Foundation Course will allow students to meet Mount Allison's English language proficiency requirements.

**CLLC: Canadian Language Learning College (Toronto, ON; Ottawa, ON; Halifax, NS):** Successful completion of CLLC's University Pathway Program (UPP) will allow students to meet Mount Allison's English language proficiency requirements.

## 3.8 MATURE STUDENTS

Mount Allison recognizes that students come to us through many different paths and, consequently, with many different experiences. Individuals who will be 22 years of age or older prior to the first day of classes of the term in which admission is sought may be considered for admission as a mature student. A mature student should apply as a full or part-time student and include with his/her application a letter of intent, an updated resumé, and a copy of his/her high school transcript. A letter of intent should state both personal and career goals which detail the reasons for applying to the university. The resumé should document recent work and volunteer experience.

Applicants who have attempted fewer than 18 credits or equivalent of transferable post-secondary level courses may also be eligible for admission as a mature student. If a student has undertaken study at any other university or recognized post-secondary institution please have the institution send an official transcript directly to the Admissions Office.

The Admissions Office reserves the right to refer any cases to the Admissions and Re-admissions Committee for special consideration.

## 3.9 ADMISSION WITH ADVANCED STANDING

Students applying for admission with advanced standing must provide official transcripts for the applicable program, within one year of admission to Mount Allison to be eligible for transfer credits to be recognized and count toward a degree from Mount Allison.

Students who have received credit in a subject and who propose to register for a further course in that subject must at registration determine placement in consultation with the department concerned. Placement may be granted without credit. In cases of doubt applicants may be required to write one or more examinations upon entering the University.

Students may not earn more than a total of 30 credits towards their degree program from any combination of types of Advanced Standing listed in Section 3.9.

### 3.9.1 International Baccalaureate

For students who have completed the IB Diploma with an overall score of at least 28 as per 3.6.3, a maximum of 30 credits on a 120-credit degree program may be awarded for both HL and SL courses with scores of at least 5 and for Theory of Knowledge (TOK) with a score of at least 'C'. Otherwise, up to 18 credits on a 120-credit degree program may be awarded for individual HL IB subjects completed with scores of at least 5.

### 3.9.2 Collège d'Enseignement Général et Professionnel (CEGEP)

Students accepted to Mount Allison from the CEGEP system may receive up to 30 credits according to the criteria listed below:

| CEGEP | Mt. Allison Credits Granted |
|---|---|
| 16 courses | 6 |
| 18 courses | 12 |
| 20 courses | 18 |
| 22 courses | 24 |
| 24 courses | 30 |

### 3.9.3 General Certificate of Education (GCE)

Students who have successfully completed Advanced 'A' Level papers with grades of at least 'D' may receive up to 30 credits.

### 3.9.4 Advanced Placement 'AP' Program

The University grants a maximum of 30 credits on a 120-credit degree program for subjects completed in the Advanced Placement program at a level of 4 or 5. Evidence of completion of appropriate laboratory or studio work would be required.

## 3.10 TRANSFER STUDENTS

Students pursuing post-secondary studies at a recognized university or college should present a minimum overall grade point average of 2.0 (or equivalent) on their post-secondary studies to be considered for admission. Please be aware that possession of the minimum requirement does not guarantee admission; students may be expected to present higher grades for admission to any given year. If course work has been completed at multiple institutions, the academic performance at all

institutions will be taken into consideration. Students who are not eligible to return to their home institution will normally be required to wait at least one academic year before applying for admission. **Please note that failure to provide a full and complete academic record as relating to post secondary institutions attended may result in the cancellation of your application and/or admission, and/or expulsion once admitted.**

### 3.10.1 Transfer Credits

a) Students transferring from recognized post- secondary institutions may receive credits for courses previously completed as determined by the Registrar in consultation with the appropriate Academic Department or Academic Dean.
b) Transfer credit will normally be granted for courses with passing grades for which credit has been earned. However, students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.
c) Transfer credits are recorded on the transcript with credit value and a notation of 'P' (equivalent to passing grade of C- or higher) or 'CP' (equivalent to passing grade below C-, not eligible to be used as a pre-requisite) and they are excluded from the Grade Point Average.
d) A maximum of 60 transfer credits may be credited toward a degree from Mount Allison. (See also Regulation 10.10.2 regarding transfer credit limitations).
e) Students transferring credits from another institution must provide the following:
   i) an official transcript pertaining to the credits, submitted directly to the Registrar's Office by the institution concerned.
   ii) detailed course descriptions from the transferring institution's Calendar. (Notarized English translations should be included if applicable)

**Note:** Students transferring from another institution to Mount Allison must have provided official transcripts for all post-secondary institutions attended within one year of admission to Mount Allison to be eligible for transfer credits from other institutions to be recognized and count toward a degree from Mount Allison.

## 3.11 CHALLENGE FOR CREDIT

Mount Allison University may recognize prior learning through Challenge for Credit for certain courses when students have obtained a proficiency or intellectual skills in the subject matter through training or experience rather than through high school, college, or previous university instruction.

### 3.11.1 Eligibility for Challenge for Credit

a) Challenge for Credit is available only in courses which have been recommended by academic Departments or Programs and approved by Senate for this purpose. These courses will be identified in the Calendar.
b) Only students who have been admitted to or are currently registered in a degree program at Mount Allison University may Challenge for Credit.
c) Students may not Challenge for Credit courses:
   i) that serve as prerequisites to courses in which students are currently registered, have previously been registered, or have been placed as a result of a placement test; or
   ii) in which students have previously been registered (including registration for audit) at any postsecondary institution.
d) Students may not Challenge for Credit more than once in any course.
e) Students may not earn more than a total of 30 credits towards their degree program through Challenge for Credit and any form of Advanced Standing (Calendar section 3.9). Such credits do not count towards Academic Residency Requirements (Calendar regulation 10.10.2).

### 3.11.2 Regulations and Procedures for Challenge for Credit

a) A student who wishes to Challenge a course which has been identified as being available for Challenge for Credit must complete the application available on the Registrar's Office web page and submit it at least one month before the beginning of the Fall or Winter Term.
b) The student must pay the required fee, which payment must accompany the application. If the student is judged ineligible to pursue the Challenge for Credit option, this fee will be returned to the student.
c) Challenge for Credit is normally evaluated through a comprehensive examination which covers the entire content of a course. The Challenge examination may or may not be the same as the final examination for the course. In some cases there may be alternative or additional evaluative components such as submission of portfolios or of sample work, laboratory tests, or performance of essential course-related skills.
d) Challenge examinations will be held before or during the first week of the Fall and Winter Terms, normally in conjunction with correspondence and deferred examinations.
e) All challenge examinations will be held on the campus of Mount Allison University.
f) A student must achieve a grade of C- or higher to succeed in the challenge. Any attempted Challenge for Credit will be recorded on a student's transcript. A successful challenge will be recorded as Cr (Credit); an unsuccessful challenge will be recorded as NC (No Credit). Challenge grades are excluded from the calculation of a student's GPA.

## 3.12 VISITING STUDENTS

Students pursuing post-secondary studies at another recognized university or college and who want to complete coursework at Mount Allison are considered visiting students. In order to be considered for admission, applicants must obtain a Letter of Permission from their home institution and submit a complete Visiting Student Application. The visiting student application is available online at **<www.mta.ca/apply>**

## 3.13 EXCHANGE STUDENTS

Students applying to Mount Allison as an exchange student are normally required to meet the University's minimum admissions requirements and may be required to provide proof of English language proficiency. Students should be in good academic standing at their home institution and will need to present a transcript of all courses previously taken at the university level in order to be considered for admission to Mount

Allison as an exchange student. The application for admission as an exchange student is available online at <**http://www.mta.ca/apply/**>

## 3.14 SPECIAL CIRCUMSTANCES

Students who do not intend to earn a degree from Mount Allison may be admitted under special circumstances to register for individual courses which they are qualified to take.

## 3.15 GRADUATE STUDIES

For Admission requirements to the Master of Science program please see the Master of Science program outline in the Academic Programs section 11.4.

# 4 FEES

The following sections deal with fees, refunds and related matters. Students should read the sections that apply to their situations. Please contact us through the Registrar's Office if you have any questions. Please note that in the event of any conflict between this section and any other section of the Calendar concerning fees or their calculation, this section will apply.

Please note that Mount Allison University does not accept responsibility for any loss, damage, or interruption of classes, accommodation or meal service as a result of circumstances beyond the reasonable control of the University.

## 4.1 FEES AND EXPENSES

### 4.1.1 Full-time/Part-time Enrolment - Fall and Winter terms

For fee administration purposes students enrolled in nine or more credits in the Fall or Winter terms, including credits for correspondence courses, are full-time for that term provided they are registered in at least two on-campus courses. All other students are part-time for fee administration purposes for that term.

Tuition fees for students in the Bachelor of Science (Aviation) program are in two parts. Mount Allison sets its part and its partner, Moncton Flight College, sets its own tuition and other fees. Students in that program should contact the Registrar's Office for tuition amounts and deadlines.

### 4.1.2 Tuition Fees

Tuition fees for the following year are finalized in May and will then be posted on the Registrar's Office web page. Inquiries should be directed to the Registrar's Office.

The following are the 2016/2017 tuition fees.

| **Full-Time Students** | |
|---|---|
| Undergraduate Tuition - Canadian | $7,765.00 |
| Undergraduate Tuition - Non-Canadian* | $16,750.00 |
| Graduate students - first year | $500.00 |
| Graduate students - subsequent year | $250.00 |

Students who are full-time for a term will pay half of these fees for that term.

*Students charged Non-Canadian tuition will only be changed to Canadian tuition once proof of Canadian citizenship or Permanent Resident status has been received by the Registrar s Office. This change will take effect in the term the information is received. No adjustments will be made for prior terms.

| **Part-Time Students** | |
|---|---|
| per six credit course - Canadian | $1,553.00 |
| per three credit course - Canadian | $776.50 |
| per six credit course - Non-Canadian | $3,350.00 |
| per three credit course - Non-Canadian | $1,675.00 |

### 4.1.3 Overload Fees for Full-Time Students

Full-time students who have permission to take course overloads (see Academic Regulations) may take up to 18 credits per term without being charged additional tuition. **However, students taking more than 15 credits in a term will be charged additional tuition fees if any of their credits are for correspondence courses.** All full-time students will be charged additional tuition fees for credits over 18 in a term and for any auditing fees for credits over 18 in a term.

### 4.1.4 Auditing Fees

Courses may be audited for half the normal tuition. Please refer to section 10.3.8 which outlines requirements for auditing courses.

### 4.1.5 Mail Service, Fitness Centre, and Technology and Service Fee

All full-time students must have a University mail box and pay a $25.00 non-refundable mail service fee. Part-time students may also receive mail service by paying the fee.

All full-time students must pay the Fitness Centre fee. The cost is $100 for the full year. Part-time students may receive the service by paying $50 per term to the secretary in the Department of Physical Recreation and Athletics.

All full-time students must pay the Technology and Service fee. The cost is $200 for the full year.

### 4.1.6 Student Organization Fees

The University collects fees on behalf of the student Union (MASU), the student newspaper (the Argosy)and the campus radio station(CHMA). The student organization fees for full-time students, other than Exchange Students are listed below. Part-time students are required to pay Mount Allison Students' Union Membership Fees as listed below. Such fees payable in the Fall term are not refundable after September 30. In the Winter term they are not refundable after January 31. The following fees are for the 2015/2016 Fall/Winter academic terms.

| | |
|---|---|
| Mount Allison Students' Union Membership Fees (includes graduate students) | $469.00 |
| Mount Allison Students' Union Membership Fees for part-time students (Daytime) | $90.00 |
| Argosy (student newspaper) | $33.00 |
| CHMA (student radio) | $40.00 |
| Mount Allison Students' Union Library Acquisition Fee | $15.00 |

### 4.1.7 Other Fees

The following fees are payable as required:

| | |
|---|---|
| Application for full-time or part-time admission (paper format) | $60.00 |
| Application for full-time or part-time admission (on-line format) | $50.00 |
| Application for residence accommodation for new students | $50.00 |
| Application for Visiting Student (on-line or paper format) | $50.00 |
| Challenge for Credit Application | $375.00 |

| | |
|---|---|
| Replacement mail key (HST included) | $10.00 |
| Replacement residence interior door key (HST included) | $23.00 |
| Replacement residence exterior door key (HST included) | $46.00 |
| Special examination | $50.00 |
| Examination re-read | $25.00 |
| Diploma replacement (HST included) | $50.00 |
| Letter of Permission | $50.00 |
| Transcript | $10.00 |
| ID card replacement (HST included) | $25.00 |
| Returned cheque handling charge | $35.00 |

### 4.1.8 Fieldwork and Travel: Expenses and Liability

Travel expenses incurred during the course of field work (e.g. accommodation, travel, meals, etc.) within prescribed courses (e.g. Geography and Environment, Biology, Fine Arts, etc.) will be the responsibility of the individual student. These costs must be paid to the Registrar's Office prior to the trip as per the payment schedule provided by the faculty member.

Participants in academic fieldtrips, athletic travel, international exchanges and study abroad, and any university sanctioned activities involving travel are required to conform to Mount Allison University's travel liability policies. Failure to comply with these policies will result (as applicable) in de-registration from courses with a required travel component, withdrawal from international exchange and study abroad programs, or cancellation of participation in athletic travel. Mount Allison University will not be held liable for fees repayment on the above activities beyond any repayment noted in 4.5.

### 4.1.9 Instructional Supplies Fees

Fine Arts Studio Courses - Students enrolled in those courses designated by the Fine Arts Department will be charged Fine Arts Instructional Supplies Fees. Those fees range from $65 to $130 per course and are finalized in May. A list of courses is noted in section 11 Fine Arts Studio Courses and are subject to change.

### 4.1.10 Study Abroad and Exchange Fee

For students who have been accepted to one of the study-abroad or exchange programs offered by Mount Allison, a non-refundable $125.00 Confirmation of Participation Fee is due by March 31. Some study-abroad programs already have this fee built into the program charge. For more information, contact the appropriate study-abroad co-ordinator. This fee is in addition to the non-refundable Registration Deposit required in 4.2.4

### 4.1.11 Residence, Communications and Meal Plan Fees

Residence, meal plan and services fees are finalized in May and will then be posted on the Registrar's Office web page. Inquiries should be directed to the Housing Office, email address: <**resroom@mta.ca**>. The following are the 2016/2017 room, meal plan, and services fees for the Fall/Winter academic terms. They are subject to change for the 2017/2018 Fall/Winter academic terms.

| **Room** | |
|---|---|
| Triple Ensuite Room | $4,605.00 |
| Double Room | $5,024.00 |
| Double Ensuite Room | $5,535.00 |
| Single Room | $5,889.00 |
| Super-Single Room | $6,217.00 |
| Single Shared Ensuite Room | $6,587.00 |
| Single Private Ensuite | $7,282.00 |
| Residence Services Fee | $608.00 |

This fee is mandatory for all students living in residence and covers local phone, cable TV, Internet connection, a mini fridge and access to the laundry room.

| **Meals** | |
|---|---|
| Meal Plan for Residence Students | $4,622.00 |
| 10/ Week meal plan (only Anchorage and Carriage) | $2,427.00 |

All students living in residence must have a meal plan.

### 4.1.12 Mountie Money

Mountie Money is mandatory for residence students. The amount of $100.00 will be loaded onto your student card which can then be used to purchase food and other services on campus.

## 4.2 DEPOSITS FOR FULL-TIME STUDENTS

### 4.2.1 Registration Deposits for New Students

A non-refundable $100 Registration Deposit is due by May 6, or such later date as may be specified in the offer of admission. The date this deposit is received or post-dated, whichever is later, determines the position on the room selection list. Students will not be able to register for courses through on-line registration until the registration deposit has been paid. The Registration Deposit will be applied against second term tuition fees and will be forfeited if a student is registered in January but fails to attend classes or notify the University in writing of withdrawal from the University.

### 4.2.2 Residence Deposits for New Students

A $500 Residence Deposit for students who apply to live in residence is due by May 6. Early residence room assignments will be offered to students who pay the $500 Residence Deposit by March 1. Residence accommodations are guaranteed if all deposits are received by May 6. The Residence Deposit will be applied against second term residence fees.

### 4.2.3 Refunds of Residence Deposits

A residence room can be cancelled prior to the beginning of the Fall academic term but only in writing addressed to the Registrar's Office, or by e-mail to <**regoffice@mta.ca**> or by fax (506) 364-2272. If you cancel your residence room, a refund of the Residence Deposit will be made as follows:

$500 by May 6
$250 by July 15
no refund after July 15

### 4.2.4 Registration Deposits for Returning Students

A non-refundable $100 Registration Deposit is due by June 6. A late payment will result in a late processing fee being charged (see section 4.4.1) and may delay registration. The Registration Deposit will be applied against second term tuition fees and will be forfeited if a student is registered in January but fails to attend classes or notify the University in writing of withdrawal from the University.

### 4.2.5 Residence Deposits for Returning Students

A $500 Residence Deposit for students who intend to live in residence is due by May 6. The Residence Deposit will be applied against second term residence fees. Late payment will result in an additional $100 room holding fee. If both the Deposit and this additional fee are not paid by May 6, the University can no longer hold the student's room or guarantee any room in residence. Students who cancel their rooms by May 6 will be charged a $100 room draw fee. Those who neither cancel their rooms nor pay their residence deposit by May 6 will be charged a $100 room holding fee.

Depending on the date a residence room is cancelled, a refund of the Residence Deposit will be made as follows:

$400 by May 6
$250 by July 15
no refund after July 15

**Students who wish to cancel their rooms for the Fall but intend to have a room for the Winter should contact the Housing Office at <resroom@mta.ca>**

### 4.2.6 Registration Deposits for January Admissions (New and Former Students)

A non-refundable $100.00 Registration Deposit is due November 14, or such later date as may be specified in the offer of admission.

### 4.2.7 Residence Deposits for January Admissions (New and Former Students)

For students wishing to enter residence in January, a $250 Residence Deposit must be paid by November 14. Refunds of this deposit will be made as follows:

$250 by November 21

## 4.3 PAYMENT OF FEES

### 4.3.1 Payments and Charges

Payments must be received by the University, not post-marked, by the dates specified in section 4.3.3 and below. Payments not received by the due date will be subject to a late payment fee. See section 4.4.5.

### 4.3.2 Fall and Winter Payments by Part-Time Students

All fees for courses taken in the Fall or Winter term are due and payable at the time of registration.

### 4.3.3 Fall Payments by Full-time Students

**The Fall term payments due September 19, are in addition to the deposits listed.**

Students are responsible for payment of fees by the fee deadlines. In the situations outlined in section 4.3.7 only, payments may be made that are less than these amounts. Registered students may view their accounts through Connect@MTA. Students are encouraged to use on-line banking or alternatively, to leave payment by cheque in the drop box, located outside the Registrar's Office.

University services may be revoked if by the fall payment due date either 1) the correct Fall payment has not been received, or 2) late payment arrangements have not been approved. See section 4.4.2. Therefore, please forward your payments well in advance of their due dates, and, if you cannot make your full payment on time, please consult as early as possible before the due date with a) the Financial Aid and Awards Counsellor in the Registrar's Office, if payment is delayed by the Canada Student Loans Program or b) the General Accountant in Financial Services, if payment is delayed for other reasons.

### 4.3.4 Winter Payments by Full-time Students

All amounts pertaining to the Winter term are payable by January 23. Students are encouraged to use on-line banking or alternatively, leave post-dated cheques in the drop box, located outside the Registrar's Office, before leaving campus in December. E-mail notification will be sent to students when Winter charges have been applied to the students' accounts. This will take place during the last week in November. Students admitted to the University beginning in January will be advised upon registration of the amount owing. The Winter fees for students may change if courses are added or dropped. Registered students may access their accounts through Connect@MTA.

University services may be revoked if by the Winter payment due date either 1) the correct Winter payment has not been received, or 2) late payment arrangements have not been approved. See section 4.4.2. Therefore, please forward your payments well in advance of their due dates, and, if you cannot make your full payment on time, please consult as early as possible before the due date with a) the Financial Aid and Awards Counsellor in the Registrar's Office, if payment is delayed by the Canada Student Loans Program or b) the General Accountant in Financial Services, if payment is delayed for other reasons.

### 4.3.5 Fall and Winter Payments for Students Participating in Exchange Programs

#### Fall Payments - Strasbourg Program

The Fall payment is due August 31. The amount of the Fall payment will be the tuition for the Fall term plus the residence fee for the full year.

#### Fall Payments - All Other Exchange Programs

The Fall payment is due September 19. The amount of the Fall payment for outgoing Mount Allison students will be the tuition for the Fall term. Students who live in residence while participating in the exchange program will be obliged to pay the residence fees to the host university.

### Winter Payments

For all Mount Allison students participating in exchange programs the Winter payment will be due and payable January 23. The amount of the Winter payment will be the tuition for the Winter term.

### Inbound Exchange Students

Inbound exchange students who will be staying in Mount Allison residences should contact the Registrar's Office for information on their residence, meal plan and Mountie money financial commitments, and their fee payment deadlines.

## 4.3.6 Method of Payment

**In order to improve service to students by avoiding line ups, the University strongly suggests that students pay using on-line banking.**

Information about fee payment is available on the web at **<http://mta.ca/Registrars_Office/Tuition_and_fees/Fee_payment/Fee_payment/>**. Cheques, bank drafts or money orders, made payable to "Mount Allison University", can be mailed to the Registrar's Office or placed in the drop box located at the Registrar's Office. Fees may also be paid through telephone banking or on-line services. For information please contact your bank. Due to the costs involved for the University, and ultimately for its students, payments by credit card are not accepted.

## 4.3.7 Reducing the Amount of Payments

There are three circumstances in which students can reduce the amount of the above payments. The first is when students have been awarded **Mount Allison** scholarships and bursaries; please refer to the offer letter for information regarding disbursement. The second is when students have proof of the amount of the Canada Student Loan they will receive. The third is when students have an external sponsor **who will be invoiced by the University**; this category does not include external scholarships and bursaries.

When the amount paid has been reduced because students will receive a loan from the Canada Student Loans Program or have external sponsorships, temporary registration status will be granted. **It is the student's responsibility to ensure that government or sponsorship funding is received by the University by September 30 or January 31, as the case may be**. If the University has not received the funds by these dates, students must make temporary financial arrangements through some other source to meet their financial obligations to the University or contact the Financial Aid and Awards Counsellor in the Registrar's Office to discuss bridge financing.

# 4.4 LATE FEES AND INTEREST CHARGES

## 4.4.1 Late Processing Fees

a) Late Registration Deposit Processing Fee - A $50 late payment processing fee may be charged if the University does not receive the Registration Deposit from returning students by the due date.
b) Late Letter of Permission Processing Fee - A $25 late processing fee may be charged for Letters of Permission issued on a retroactive basis (see 10.5.1b)

## 4.4.2 Services Reinstatement Fee

University services may be revoked in the case of dishonoured payments or failure to meet the defined payment schedule. Students wishing to have their services reinstated, including reinstatement of their academic program, may be charged a services reinstatement fee of $100.

## 4.4.3 Interest Charge

Interest will be applied to outstanding balances at the rate of 1.5% per month (19.56% per annum compounded).

## 4.4.4 Appeals of Academic Standing

Letters of appeal from students appealing their academic standing at the end of the academic session will only be forwarded to the Admissions and Re-admissions Committee for consideration if there are no outstanding fees payable on the students' accounts.

## 4.4.5 Late Payment Fee

A $75 late payment fee will be added to accounts not paid in full by the prescribed due dates in 4.3.3 and 4.3.4.

# 4.5 WITHDRAWALS AND STUDENT ACCOUNTS

## 4.5.1 Withdrawals Fall and Winter

**Absence from classes does not constitute withdrawal.**

Full-time students who wish to withdraw from the University must begin the process with the Director of Student Life located in the Student Life Office, Wallace McCain Student Centre. Withdrawal is not effective until the Director of Student Life has approved the withdrawal request. The date of withdrawal for the purpose of fee administration will be the date this approval is given.

Full-time and part-time students who wish to withdraw from one or more courses will be able to withdraw from all but the last course on-line using Connect@MTA. The date of withdrawal for the purpose of fee administration will be the date the withdrawal is effective on Connect@MTA. There will be no fee charged for courses dropped within the first week of classes. For withdrawals after the first week of classes, fees will be calculated as 15% of the tuition for the term times the number of weeks or part weeks since the first day of classes. There is no credit (refund) given after the sixth week of classes.

Students changing from full-time to part-time status should contact the Registrar's Office regarding their fee obligations.

Withdrawals from non-credit courses will be assessed on a per course basis depending on the nature and duration of the course.

Any inquiries regarding the calculation/proration of tuition fees on academic withdrawal should be directed to Financial Services. The procedure concerning the calculation of any refunds for students with United States (FFELP) loans is available on the web at **<www.mta.ca>**.

## 4.5.2 Withdrawals Correspondence Courses

Refunds are calculated from the date that written, faxed or e-mailed notification of withdrawal is received by the Registrar's Office.

Full time students who wish to withdraw from a correspondence course that is part of their full time course load and for which they have not paid an additional fee over full time tuition, will only be eligible for a refund if their status changes to part time. These students should contact the Registrar's Office regarding their eligibility for a credit.

All correspondence course refunds are calculated from the first day of the term and the date that the written request for withdrawal is received by the Registrar's Office. Fee credits will be calculated as the tuition fee paid for the course minus 15% times the number of weeks including the week of withdrawal, since the beginning of the term. There is no credit (refund) given after 6 weeks of registration.

Refunds will not be given to students who do not adhere to these deadlines.

## 4.5.3 Withdrawals - Spring Term Courses

Refunds are calculated from the withdrawal date of a course dropped through CONNECT. Within 24 hours of making a change students should confirm their registration on MY CLASS SCHEDULE. If it does not reflect the addition, change, or deletion, or if students have problems viewing their schedule through CONNECT, they should contact the Registrar's Office.

There will be no fee charged for 3 credit courses having 2 classes per week dropped up to and including the last day for change in registration.* Fee credits will be calculated as the tuition fee paid for the course minus 15% times the number of classes including the week of withdrawal, since the course began. There is no credit (refund) given after 6 classes.

Refunds will not be given to students who do not adhere to these deadlines.

*Any course having more than 2 classes per week may be charged a withdrawal fee if dropped before the last day for change in registration. These courses may also be calculated differently for withdrawals. Please see the Registrar's Office.

## 4.5.4 Residence and Meal Plan Withdrawals

Students wishing to withdraw from residence and/or the meal plan must begin the process with the Director of Student Life located in the Student Life Office, Wallace McCain Student Centre. Withdrawal is not effective until the Director of Student Life has approved the withdrawal request. The date of withdrawal for the purpose of fee administration will be the date this approval is given, or the date students have checked out of residence and keys have been returned, whichever is later.

The student's account will be adjusted to reflect residence and/or meal plan charges as follows:

| **Month of withdrawal:** | |
|---|---|
| September (includes Aug. 24-31) | 40% of the full year cost |
| October | 50% of the full year cost |
| November | 60% of the full year cost |
| December | 70% of the full year cost |
| January | 80% of the full year cost |
| February | 90% of the full year cost |
| March | 97% of the full year cost |
| April | 100% of the full year cost |

Students entering residence and/or meal plan for one term will have their accounts adjusted to reflect residence and/or meal plan charges as follows:

| **Month of withdrawal, as determined above:** | |
|---|---|
| September or January | 50% of term cost |
| October or February | 75% of term cost |
| November or March | 95% of term cost |
| December or April | 100% of term cost |

Students who decide during the Christmas break not to return to the University in January must so advise the University by December 31 to be treated for fee purposes as a December withdrawal. This may be done even if University offices are closed by e-mail to **<regoffice@mta.ca>**, or by faxing the Registrar's Office; fax (506) 364-2272, or leaving a voice mail message with the Director of Student Life; phone (506) 364-2255. Any student who wishes counselling before making this decision should so inform the Director of Student Life by December 31, by voice mail if University offices are closed.

Students entering residence and purchasing meal plans in the middle of a term who subsequently withdraw should contact the Registrar's Office regarding their charges for the term. Any inquiries should be directed to the Registrar's Office.

## 4.5.5 Payments to Students from their Accounts

Payments will only be made to students from their accounts with the University if, and to the extent that, their accounts have a credit balance. Students may forfeit a scholarship or bursary or residence bursary award from Mount Allison if they do not complete the Fall/Winter academic terms and this may affect whether there is a refund on withdrawal and the amount of any such refund. Furthermore, if any portion of a student's fees was paid by Canada Student Loan Program, the University is obliged to remit any refund upon withdrawal to the Canada Student Loan Program, or student's bank, for credit towards their government student loan.

## 4.5.6 Required to Withdraw

Students required to leave the University or its residences for failing to meet the required payment schedule, or for academic or disciplinary reasons, will be required to complete the withdrawal process and will be responsible for the charges detailed in sections 4.5.1, 4.5.2, 4.5.3, 4.5.4 and 4.5.5.

# 5 FINANCIAL ASSISTANCE

## 5.1 SCHOLARSHIPS

Mount Allison is interested in attracting the most well-rounded and involved student citizens from across Canada and abroad every year and is fortunate in being endowed with funds to financially reward and assist them in their studies. Every student has the opportunity to earn a scholarship, regardless of the degree program or the year of study. Mount Allison attempts to make scholarship funds available on an equitable basis across the entire student population.

### 5.1.1 Eligibility

The University awards scholarships to entering students for academic achievement and extracurricular involvement. Students need not apply for these scholarships, as consideration for scholarship eligibility is automatic and part of the Admissions process. All entering students who indicate the intention to pursue a course of study leading to a career as a medical doctor will automatically be considered for the Goodridge Scholarship. The deadline for application is March 1.

### 5.1.2 Entrance Scholarships

Scholarships awarded to entering students are tenable as long as the student is carrying a full course load of 30.0 credits over the Fall and Winter terms, and all other conditions of the award are fulfilled. Entrance scholarships range from $500 to $5,000 and most are fully renewable as stated in the scholarship offer letter.

### 5.1.3 The Bell Scholarship

Established in 2002 as the premier entrance scholarship at Mount Allison, the Bell Scholarship celebrates students who have demonstrated strong academic ability, leadership potential, volunteer work, extracurricular activities, work experience, and good citizenship. To be considered for this prestigious scholarship, applicants must ensure that the required documentation is submitted to the university along with the application for admission by the application deadline of March 1st. Six awards are offered with a value of $48,000 and five awards are offered with a value of $32,000. *Visit the Bell Scholarship web site for detailed information on how to apply.*

### 5.1.4 Scholarships for Returning Students

All students who attend Mount Allison will be considered for scholarships after their first year of study. The University General Scholarships will be awarded annually to students, not holding an entrance scholarship, enrolled in a full course load of 30 credits over the Fall and Winter terms and who achieve a GPA of 3.7.

### 5.1.5 Scholarships Index

Aliant Scholarship
Alumni Entrance Scholarship
Alumni Life Membership Scholarship
Alumni Athletic Achievement Award
Dr. George Anderson Scholarship
Mary Mellish Archibald Scholarship
E. Louise Arnett Memorial Scholarship
Marjorie (Pridham) Atkinson Music Scholarship
Anne Whittaker Bailey Scholarship
Percy Simpson Bailey Scholarship
Violet Bailey Scholarship in Commerce
Katherine & Louise Bamford Memorial Scholarship
Dr. B.E.W. Barnhill Scholarship
W.W. Beer Scholarship
Marjorie Young Bell Scholarship
Ralph Pickard Bell Scholarship
Lord Bennett Scholarship
Malcolm Bent Memorial Scholarship
Dr. Will R. Bird Memorial Scholarship
Mary MacNutt Blaikie Scholarship
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BMO Financial Group Scholarship
Edwin James Booth Scholarship
Harold Lothrop Borden Scholarship
Harold Borden - Maude Macoun Scholarship
C.N. Brown Scholarship
Donovan Leisk Brown Scholarship
Howard F. Brown Memorial Scholarship
Sheila A. Brown Scholarship
David G. Burchell Scholarship
Dr. Thomas Cadman Scholarship
Aubrey Cameron and Nancy MacBain Cameron Awards
The Calgary Scholarship
G. and G. Cameron Scholarship
Dorothy Carlisle Music Enrichment Scholarship
Pauline and Wilfred Carter Scholarship
Barbara Eversfield Cater Scholarship
Jean and Francis Chubb Scholarship
Class of 1960 Scholarship
Class of 1965 Millennium Scholarship
Class of '68 Entrance Scholarship
Class of 1978 Leadership Scholarship
Nathan Cohen Memorial Scholarship
Nina F. Cohen Scholarship
Cole Harbour Alumni Scholarship
John Dixon Copp Scholarship
Coveyduck Family Scholarship
J.E.A. Crake Scholarship
James Russell & Martha Crawford Scholarship
William S.H. Crawford Scholarship
Christine Milo Wilson Cruikshank Scholarship
Marion H Cumming Scholarship
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The Cynthia Dale Fine Arts Scholarship
William S.A. Daley Scholarship
Edgar Davidson Memorial Scholarship
K.L. Dawson Scholarship
Georgia Pippy Day Scholarship
Norman Augustus Deale Scholarship
Marguerite Deinstadt Scholarship
L.G. DesBrisay Scholarship
C.F. Dixon Scholarship
Reverend Karl F. '27 and Edna Drew Memorial Scholarship for International Students
Ellen Annette Driscoll Scholarship
Jack Drover Athletics Award

Ebbutt Memorial Trust Scholarship
Carleton Elliott Scholarship
Lavinia Estabrooks Scholarship
Faculty Scholarship
J. Archie Fleming Scholarship
William Thomas Ross Flemington Scholarship
Ronald and Frances Ford Family Scholarship
Fred S. Fountain Scholarship
Vivienne Fowler Scholarship in Music
Jeff 'Skip' Fraser, Memorial Scholarship
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Province of NB Golden Jubilee Scholarship
Dr. L.A. Goodridge Scholarship
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Marguerite Hubbard Charitable Foundation Music Scholarship
E.J. Hughes and Zoe Hughes Foster Scholarship
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Allison Heartz Johnson Scholarship
E.J. Hughes and Zoë (Hughes) Foster Scholarship
Ron Joyce Foundation Scholarship
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Professor Patricia Lee Music Scholarship
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Jeannie Forbes Leslie Memorial Scholarship
R.W. and Ruth Lister Scholarship
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Patricia Saunders McKinna Music Scholarship
Mr. and Mrs. S.B. Mitra Scholarship
Nathaniel Morgan Scholarship
Mount Allison Scholarship
MTT Scholarship
Murray Family Scholarship
Betty and MacKay Murray Entrance Scholarship
Gladys Muttart Scholarship
NB Tel Centennial Scholarship
NBUOF Scholarship/Bursary
David Neale Scholarship
Nelson-Littlejohns Scholarship in Philosophy, Ethics and Religion
New Brunswick School Trustee Association Scholarship
G. J. Oulton Scholarship
Isabel (Munro) Pace Scholarship
T.B. Parlee Scholarship
Donald D. Patterson Scholarship
H. P. and L. G. Patterson Scholarship
Margaret Sterns Peake Scholarship
Lloyd T. Pearce Scholarship
Major Walter (Bubbles) Peters Memorial Scholarship
David K. Pickard Scholarship
Mary Emerancy Pickard Scholarship
Herbert L. Pottle Scholarship
PricewaterhouseCoopers Scholarship
E. B. Pulford Scholarship
Charles Gordon Rand Scholarship
The Rand Family Scholarship
R.H.W. Foundation Scholarship
John J.E. Risser Scholarship
John Ritcey Scholarship
Margaret M. Roberts Scholarship
George Victor Ross Scholarship
Ruggles Gates Scholarship
Evelyn (Jones) Salsman Scholarship
Eleanor Sharp Scholarship
Herbert Sharp Scholarship
JR Shaw Entrance Scholarship
Shenton Scholarship
John R. Siggins Scholarship
Arthur W. and Sarah Smith Scholarship
Sobey Foundation Scholarship
Sobey Performance Scholarship
Edgar F. Sparkes Memorial Scholarship
Dr. Ross A. Stanway Entrance Scholarship
J. J. Stewart Scholarship
John D. Thorburn Scholarship
Dorothy E. Thorne Memorial Scholarship
Stiles Towse Scholarship
Transalta Aboriginal Scholarship
George J. Trueman Scholarship
Canadian University Women's (Sackville) Scholarship
Marc E. Vallée Memorial Scholarship in Medical Physics
Prof. Pravin K. Varma Teaching Internships

Wallace Weekend Scholarship
Walker Wood Foundation Entrance Scholarship
Walker Wood Foundation Entrance Scholarship in Biochemistry
Walker Wood Foundation Entrance Scholarship in Science
R. Sterling Walls Scholarship
M.T. Walshman Scholarship
Dr. Harrison Hedley Way Scholarship
Jean T. Ward Scholarship
Enid Webber Scholarships
Weston Family Scholarship
R.G.G. Wilkinson Scholarship
R H Winters Scholarship
Robert and Peggy Winters Scholarship
Women's Ice Hockey Scholarship
Women's Soccer Club Scholarship
Wood Memorial Scholarship
Robert and Maud Worthen Music Scholarship
Don Wright Scholarship
Clarence and Muriel Wry Scholarship
Angus Stuart Young Scholarship
Chris Young Memorial Academic Scholarship

# 5.2 BURSARIES

The Mount Allison bursary program provides assistance to full-time and part-time students who demonstrate financial need and who have exhausted all other avenues of support. Prior to applying for a Mount Allison bursary, applicants should apply to their province or country of residence for financial aid. Bursaries are awarded on the basis of financial need to students who have made satisfactory academic progress. Students needing assistance are encouraged to obtain an application form at the start of each term. Application forms are found on the Registrar's Office web page under Financial Aid.

## 5.2.1 Entrance Bursary Program

Mount Allison's Entrance Bursary Program has been established to offer assistance to students who have financial need in order to provide access to post-secondary education and to help them successfully complete their studies within a reasonable time period. Bursaries “are determined based on financial need and are intended to supplement, but not replace, the student's own resources and the resources of the applicant's immediate family.” Financial need is established when a student can demonstrate that his/her expenses exceed his/her resources. This financial aid component was designed to help entering students with exceptional financial need who show academic promise. Students must first be accepted for admission at Mount Allison before the Entrance Bursary application is processed. Completed Entrance Bursary applications must be received by the deadline date each year, as noted on the application, in order to be considered. Students starting in January are not eligible for this award. To maintain their eligibility, students must also apply to their province for a student loan. Likewise, to maintain eligibility, international students from the United States must apply and be approved for a subsidized Direct Loan from the US Department of Education.

## 5.2.2 President's Advisory Committee International Student Entrance Bursary Program

The International Student Bursary Fund is administered by the President's Advisory Committee on International Students - Financial (PACIS-F) and offers a limited number of renewable International Student Entrance Bursaries to qualified applicants. In addition to financial need, applicants will be considered on a variety of factors such as academic standing and extracurricular involvement. In order to be considered for one of these awards, applicants must provide an outline of extracurricular activities and letters of reference that will support your application.

## 5.2.3 Senior Citizen Bursary Program

The Senior Citizen Bursary offers assistance to students 65 years of age or older who have financial need in order to provide access to post-secondary education and to help them successfully complete their studies within a reasonable time period. Bursaries "are determined based on financial need and are intended to supplement, but not replace, the student's own resources and the resources of the applicant's immediate family." Financial need is established when a student can demonstrate that his/her expenses exceed his/her resources. This financial aid component was designed to help entering or returning students age 65 or older with financial need. Students must first be accepted for admission and/or be enrolled at Mount Allison before the Senior Citizen Bursary application is processed. Completed Senior Citizen Bursary applications must be received by the deadline date each year, as noted on the application, in order to be considered.

## 5.2.4 Bursaries Index

Anderson Family Commerce Bursary
George Anderson Bursary
ARAMARK Canada, Ltd.
Athletic Achievement Bursary
Katherine and Louise Bamford Memorial Bursary
Kay Beaman Memorial Bursary
Clifford Belding Bursary
Stephen Bird Bursary
J.J. Blackburn Bursary
Charles H. Blakney Bursary
Borden Family Bursary
John Bourinot Bursary
Aurore E. Bourque Bursary
George T. Bowser Bursary
John Bragg Bursary
Reverend Ralph Brecken Bursary
W.A. and Emma Broidy Bursary
Stuart J. Budden Bursary
CIBC Bursary
Catherine Callbeck Bursary
Aubrey and Nancy Cameron Bursary
Aubrey Cameron and Nancy MacBain Cameron Awards
Kathleen Cameron Bursary
Chalmers Family Scholarship
Fran and Edmund Clark Student Mobility Fund
Stephen and June Clark Memorial Bursary
John T. Clarke Bursary
Class of '33 International Student Bursary
Class of '41 Bursary
Class of '43 Bursary
Class of '48 Bursary
Class of '51 Bursary
Class of '52 Bursary
Class of '54 Bursary

Class of '55 Bursary
Class of '58 Bursary
Class of '59 Bursary
Class of '61 Bursary
Class of '61 Bursary for Returning Students
Class of '62 Bursary
Class of '63 Bursary
Class of '64 Bursary
Class of '70 Bursary
Class of '72 Bursary
Class of '73 Travel Bursary
Class of '82 Bursary
Class of '89 Bursary
Class of '93 Bursary
Coastal Inns Bursary
Coca Cola Bursary
E.R. Cogswell Bursary
Reuben Cohen Bursary
J.E.A. Crake Bursary
J.E.A. Crake Bursary for International Students
Eric Dennis Memorial Bursary
Annie A. Dickson Bursary
J.L. Dixon Bursary
Ellen A. Driscoll Bursary
Art Drysdale Memorial Bursary
Margaret Duvar Bursary
David Ebert Bursary
Margaret Evans Memorial Bursary
Facilities Management Bursary
Fluhmann Family Bursary
Natalie LeBlanc Forrestall Fine Arts Bursary
John A. Fraser Memorial Fund
Fundy Bursary
Harvey Gilmour Bursary
Donald T. Goodwin Bursary
Guardian Capital Inc Bursary
Janet and Eldon Gunn Bursary for Atlantic Canadian Students
A. and T. Harrison Bursary
Reid, Marilyn, Janet & David Harrison Family Bursary
G.R. Hart Bursary
Doreen Havey Bursary
James C. Healy Bursary
E.L. Heighton Bursary
H.E.Y. Day Bursary
J. R. Howard Bursary
Sheila Hugh MacKay Foundation Bursary
Annie Inch Hunton Bursary
International Student Bursary
J. A. Jardine Bursary
Rev. J. Austin Jardine Bursary
The Joyce Foundation Purdy Crawford Bursary
Herbert Williams Kimball Bursary
Matt Khoury Fund in Support of Mountie Football
Dr. Warren Langille Music Bursary
Oscar Z. LeBlanc Bursary
W. Holly and E. Francis Lister Bursary
Terrance C. Lockwood Bursary
David McArel MacAulay Award
Allan MacBeth Bursary
Margaret Jean MacCallum Bursary
Brian P. MacDonald International Experience Bursary
Elaine and Scott MacDonald Bursary
Dr. George MacDonald and Ruby Barter Memorial Bursary
Stanley H. MacDonald Bursary
Christine MacInnis Memorial Bursary
Iver MacIver Bursary
Julia MacLauchlan and Warren MacKenzie Bursary
Adele MacLennan Bursary
Dr. Philip Mainguy Bursary
Jean Manuel Memorial Bursary
Henri and Jeannette Marcotte Bursary
Ralph Marshall Bursary
JR Dewolfe Matheson Bursary
Mature Student Bursary
A.R. McClelan Bursary
Ian McConnell Bursary
Evans McKeil Family Bursary
J. William McLaggan Bursary
Mount Allison Bursary
Mount Allison Staff Association Bursary
W.O. Lloyd Allison Munson Award
Music Department Bursary
Robert M. Ogilvie Bursary
PACIS Bursary
Doris M. Pickup Memorial Bursary
Muriel F. Pottle Bursary
Project Rebuild Bursary
Ivan C. Rand Bursary
Geraldine Reid Bursary
Mel and Pauline Rice Bursary
Marjorie Wry Robertson Bursary
Sally Rodd Bursary
Thomas and Jean Rose Bursary
Philip and Annie Wakim Saab Bursary
Sackville Business Bursary
Sawdon Bursary
Scotsburn Bursary
Scoudouc River Bursary
Craig Sears Memorial Bursary
Arthur and Evelyn Simpkins Bursary
J. Wesley Smith Bursary
R.L. and M.L. Stailing Bursary
Harriett Starr Stewart Bursary
Robert Summerby-Murray Travel Bursary
Rodger Taylor Bursary
TD Bank Financial Group Bursary
E. Margaret (Jewett) Underwood Bursary
United Church Bursary
Joseph Samuel and Cora Vallis Bursary
R. Sterling Walls Bursary
Helen Reeves Warner and Estelle Warner French Teachers' Bursary in Voice
Avard Wells Bursary
Westmorland Bursary
James Wheeler Memorial Bursary
Rev. Arthur Whiteside Memorial Bursary
Windsor Foundation Football Bursary
WUSC Student Bursary
Angus Stuart Young Bursary
Fred Young Bursary

## 5.3 PRE-THEOLOGICAL BURSARIES

Various forms of financial assistance are available to students at Mount Allison who intend to study theology and enter some form of Christian Ministry.

### 5.3.1 The Mount Allison Theological Fund

The Mount Allison Theological Fund is administered by the Pre-Theological student advisor and is used in a variety of ways for the benefit of pre-theological students. Monies from the fund are available to students in the form of loans and bursaries. Various denominations provide assistance to students in Arts who intend to study for some form of Christian ministry. Information can be obtained from the Pre-Theological student advisor. In addition, some theological schools offer scholarships and bursaries to students in Arts who undertake to study theology at the theological school concerned. Pine Hill Divinity Hall (the United Church component of the Atlantic School of Theology) offers grants to students preparing for the ministry in the United Church. Students must commit themselves to taking full courses in Theology at the Atlantic School of Theology and plan to work for at least two years thereafter for the United Church of Canada. Students who do not fulfill these conditions are expected to arrange for repayment of monies received.

### 5.3.2 Application Procedure

Advanced applications are not necessary for Pre-Theological bursaries, but students who wish to apply should contact the Pre-Theological student advisor at the beginning of the academic year.

### 5.3.3 Pre-Theological Funds Index

Through the generosity of donors over the years, the following endowed funds are available:

Dr. E. Baker Theologue
Laura M. Baxter Theologue
Andrew M. Bell Theologue
Harold S. Bishop Memorial Theologue
Mary Jane Bowser Pre-Theological Theologue
Rev. Dr. G. Roy and Olive Scott Bragg Theologue
Annie Maud Cann Theologue
F.O. Creighton Theologue
Rev. Edwin Evans, D.D. and Martha E. Evans Memorial Theologue
Ella Mersereau Evans Theologue
Nancy M. Fraser, R.N. and Norman S. Fraser Theologue
Jairus Hart Theologue
Jerusalem Theologue
R. B. MacLennan Theologue
F.R. Matthews Theologue
Pre Theological Theologue
Robert Robertson Theologue
James Edward Shanklin Memorial Theologue
Howard M. Silver Memorial Theologue
John Wesley Smith Theologue
Richard W. Weddall Memorial Theologue

## 5.4 INDEPENDENT STUDENT RESEARCH GRANTS PROGRAM

Mount Allison offers a generous Independent Student Research Grants program aimed at third year students entering their fourth and final year of study. These awards allow students to work on their own independently developed research or creative activity project, under the close supervision and mentorship of a faculty advisor. This is an opportunity to better understand research and creative activity methods and to actively engage in research and creative activities in areas of special interest.

Rouie Adair Long Student Research Award
R. Thomas M. Allan Summer Research Scholarship
Marjorie Young Bell Summer Fellowships
Dr. Harold E. Bigelow Scholarship
Capital Campaign Summer Fellowships
R.P. Chapman Scholarship
Class of '46 Summer Scholarship
J.E.A. Crake Student Fellowships
Dr. A. Cuthbertson Summer Research Scholarship
Ellis Fund
Dr. L.A. Goodridge Summer Fellowships
Minogue Medical Student Research Award
NBTEL Student Research Scholarship
Nova Scotia Power Research Scholarship
Petrocan Research Fellowships
Dr. Robert Thompson Summer Student Research Award
Universitas Research Fellowships
Karen R. Grant Independent Student Research Award

## 5.5 THE DONALD CAMERON AND CLASS OF 1950 STUDENT LOAN AND ASSISTANCE FUND

Donald A. Cameron served this University as Registrar from 1959 to 1986, following a term as Assistant Professor of Education. He obtained a B.Sc. in 1950 from Mount Allison University. In 1952-53, he held a Lord Beaverbrook Overseas Scholarship and received a Diploma in English Educational Thought and Practice from the University of London in 1953. Upon his retirement as Registrar in 1986, and in recognition of his long and distinguished service, the University established the Donald A. Cameron Student Loan Fund from which students with financial need and good academic standing might be able to obtain assistance. Interested students may apply to the Financial Aid and Awards Counsellor.

## 5.6 RESIDENCE LEADERSHIP AWARD

The Residence Leadership Award program recognizes leadership experience that living in residence beyond the second year of study. Students continuing to live in residence for their third and fourth years are in leadership roles and act as mentors to new students at Mount Allison. Students living in residence for their third consecutive year of study will be awarded $500.00. Students living in residence for their fourth consecutive year will be awarded $1,000.00. No application is required. Amounts will be credited on student accounts in September and January.

**Note:** See Academic Calendar Section 5.1.6 for the Scholarship Index, and Section 5.2.4 for the Bursaries Index

# 6 CO-CURRICULAR LIFE

## 6.1 THE MOUNT ALLISON STUDENTS' UNION

The Student Union of Mount Allison is governed by the Students' Administrative Council (SAC). This is a body of elected and appointed persons who represent, organize, and plan for the interests of the students. However, the wider Mount Allison community benefits from many of the activities the SAC pursues.

The MASU represents the students through council with representatives from on and off campus, as well as the six member executive. There are also many other positions, appointed through council, that allow any student the opportunity to get involved. Many positions receive compensation in the form of small honoraria. The MASU also employs an administrator and an office manager to aid in its work. The MASU is located on the first floor of the Wallace McCain Student Centre.

Some of the services and events provided by the MASU include:

- Funding of Clubs & Societies and Academic Enrichment
- Orientation, Shinerama, Winter Carnival, the ASCARS
- Online Used Book Sale
- Off-Campus Housing Directory
- Extended Health and Dental Insurance; International Insurance
- Photocopying and faxes
- Publications: MASU Handbook/Agenda, Allisonian Yearbook
- Events, parties, seminars, and workshops

The MASU also sponsors and promotes the Clubs and Societies (C&S) of Mount Allison. These are a great asset and a wonderful way to become involved with the Mount Allison community. A sample includes:

- Because I Am A Girl, Best Buddies, BODIES, Catalyst, MOSAIC
- Eco-Action, Global Medical Brigades, Health Care Outreach, Habitat for Humanity
- Academic Clubs and Societies: Commerce, Anthropology, Psychology, Political Science, Chemistry Bio-Chem, etc.
- Debating and Governance: Debate, Model UN, ATLIS, Centre for International Studies, Young Liberals, Young Conservatives
- Community Involvement: Right to Play, SMILE
- World University Services of Canada (WUSC)
- International Organizations: UNICEF, Amnesty International, OXFAM, Free the Children
- Theatre and Musical Theatre: Black Tie, Garnet and Gold, Drama
- Sports: Rugby (Men's and Women's), Lacrosse, Varsity Dance, Ultimate Frisbee, Brazilian Jiu-Jitsu, etc.
- Musical: Elliott Chorale, Conduct Becoming
- Underbridge Press, Swing Society
- And many, many more!

Any student wishing to join a club or society can do so by attending the MASU Clubs and Societies Fair in September and should go to the MASU Office for help starting a new club or society. Athletic clubs and intramurals are all run through the Athletics Department. Students have widespread representation on the campus, including membership on the Board of Regents (governing body) and Senate (academic body). Full-time students are also enrolled as members of the New Brunswick Student Alliance and the Canadian Alliance of Student Associations.

## 6.2 THE ARGOSY WEEKLY

This weekly newspaper has been published for over 125 years by an all-student staff. The newspaper is editorially independent of both the University administration and the Student Administrative Council.

## 6.3 CHMA FM

In 1985 the CHMA Radio Station was converted to FM Stereo frequency. Mount Allison is one of the smallest universities to have an FM radio station. The staff (from the announcers to the technicians) consists mainly of students and members of the Sackville community, all working under a full-time Station Manager. The Station is funded by students fees and advertising revenues and reaches a listening audience of over 15,000.

## 6.4 WINDSOR THEATRE

This theatre group puts on major productions each term, some of which are created by members of the Mount Allison community.

## 6.5 RESIDENCE COUNCIL

All students living in the University's various residences elect house councils and executives. These bodies organize house events and co-ordinate social activities. Each House Council President sits on Residence Council, a body which represents residential concerns to the Student Life, Student Affairs or Housing Offices.

## 6.6 THE POND

The campus pub, established in 1974, is a vibrant venue for social gatherings. The Pond is the only permanently licensed facility on campus and offers to its members T.V. screens, a dance floor and weekly special events. The Pond is located in the Wallace McCain Student Centre, ground floor.

## 6.7 STUDENT EMPLOYMENT

Part time job opportunities are plentiful at Mount Allison. Students may earn extra income through employment with Dining Services, the Library, the Event Services Staff, Residence Staff, Bar Services, The Pond, the Bookstore, Conference Office and Summer Camps and various academic departments. Contact the appropriate department of interest and/or Career/Employment Services Office.

## 6.8 ACCOMMODATION

### 6.8.1 Residences

Mount Allison is a residential university with housing facilities available for approximately 50% of the student population. Each residence is unique and provides a positive living and learning environment, which promotes a balanced university experience. All first-year students who want to live in residence are guaranteed accommodation if deposit deadlines are met.

Since 1973 the University has offered co-ed residence facilities to its students. Bennett, Campbell, Hunton, and Windsor Houses offer single and double rooms while Edwards, Harper and Thornton have single rooms. Single rooms with shared en-suite bathrooms are available in Bennett, Campbell and Bigelow. Single rooms with private en-suite bathrooms are available in Thornton.

Our 10 secure residences offer common lounges, kitchens, study rooms and laundry facilities with high speed and wireless Internet, digital cable TV and phone hook ups in each room (students provide the hardware). Typical room furnishings are a bed, desk, chair, closets, mini-fridge, lighting and shelving. Rooms in Bigelow and Thornton have microwave ovens. All en-suite style rooms in Campbell, Bigelow, Bennett, Harper, Thornton and Windsor have televisions provided.

Prospective students should note that the University cannot be responsible for personal property. Students are strongly advised to insure their personal belongings. As indicated in the Conditions of Residence Accommodation, pets, halogen lights, hot plates, wireless routers and networking equipment and firearms and explosive materials are not permitted in residence.

### 6.8.2 Residence Application Procedure

All first year students who wish to be considered for residence accommodation can apply using the application form found in the portal on the Housing website at <**www.mta.ca/housing**>. The residence application for new students opens September 30. A non-refundable residence application fee of $50.00 is required to complete the application. Assignment of residence rooms is based on the date the $100 registration deposit is received by the Registrar's Office up to March 1. The $500.00 residence deposit must be paid by March 1 to be eligible for early residence room assignments. The $500 residence deposit must be paid by May 5 to guarantee residence accommodation for September. Residence applications and deposits are accepted and rooms assigned after May 5 as they are received. For further information see Fees, Section 4.2.

Students are asked to take the time to answer all the questions on the application, as this helps in appropriate placement of students in residence. Provided incoming students have met all admission and deposit deadlines, they are guaranteed residence accommodation.

Students wishing to remain in residence for their second, third and fourth years of study can participate in the room draw process beginning late October. Students can choose to stay in the same room, move to another room in the same residence or move to another residence for the following year. The room draw application can be found by signing in to the housing portal at <**www.mta.ca/housing**>. There is no application fee for room draw.

Once a student enters residence, the student is responsible for the full residence, meal plan and services fees. If a student later withdraws from residence, the student will be entitled to the refunds detailed in Section 4.5 "Withdrawals and Student Accounts".

Students studying abroad should contact the Registrar's Office, <**regoffice@mta.ca**>, in January, if they wish to live in residence upon their return to Mount Allison.

### 6.8.3 Non-University Housing

The Mount Allison Students Union (MASU) maintains, for the use of students, a list of accommodations available in Sackville and area. Students wishing to live in town are invited to use this information.

## 6.9 DEPARTMENT OF ATHLETICS AND RECREATION

### 6.9.1 Intercollegiate Athletics, Varsity Programs

Mount Allison's Intercollegiate athletic teams compete against other Atlantic Universities in a number of sports. Mount Allison competes in the Atlantic University Sport conference in football, men's and women's soccer, men's and women's swimming, and women's ice hockey. Mount Allison also has varsity teams in the Atlantic College Athletic Association in men's and women's basketball, women's volleyball, and men's and women's badminton. In all sports, the championship team represents Atlantic Canada in National Championships. The Mounties also play exhibition games with teams from other parts of Canada and the United States.

If you are interested in receiving information about a varsity program, contact either the coach or the Athletic Director. Please note that the fall sports usually have pre-season tryout camps. Students interested in one of these sports should contact the Athletic Director.

**Note:** Students who are registered in correspondence courses offered by Mount Allison and who are considered full-time students according to their course load, but who pay per-course tuition according to the fee structure outlined in 4.1.1 are not considered full-time on-campus students and are not eligible to participate in varsity sports that require confirmation of full-time enrolment.

### 6.9.2 Competitive Club Sports

A number of competitive club sport teams have been developed in recent years. Men's and women's rugby, golf, curling, tennis, lacrosse, ultimate frisbee are just some of the sports that have developed representative teams and compete against other Universities and Colleges. The co-ordinator is the Athletic Director.

### 6.9.3 Intramurals

The intramural program gives students the opportunity to participate and compete in a wide variety of activities. Emphasis is placed on participation and fun. Leagues are scheduled in soccer, softball, basketball, hockey, and volleyball. Tournaments are held in golf, curling, tennis, badminton, ultimate frisbee, and other sports based on student interest. The co-ordinator is the Intramural Co-ordinator.

### 6.9.4 Campus Recreation

There is ample time scheduled in the athletic facilities for open recreational use. Badminton, swimming, tennis, skating, pick up hockey, basketball, field games, ultimate frisbee, and fitness related activities are very popular daily activities. The weight room/fitness centre is open seven days a week with group fitness classes and personal training services available.

### 6.9.5 Men's and Women's Intramural Councils

Students play an integral part in the organization and administration of Mount Allison's intramural program.

Each residence on-campus and off-campus students have or will elect one or two representatives who make up the intramural council. If you are interested in becoming involved as a sports representative, contact your house president as soon as you arrive on campus. Many students become involved as officials for intramural competitions. These are

part-time jobs, and students are paid for their services. If you would like to become an intramural official, contact the Intramural Office early in September.

# 6.10 RELIGIOUS LIFE ON CAMPUS

## 6.10.1 Introduction

Mount Allison is a church-founded university which affirms the partnership of faith and higher education. The Mount Allison crest declares that religion is a central and integral part of university life, and the University continues the commitment made in its founding to nurture the spiritual life of students. It supports and encourages personal spiritual development and affirms that university is a place to be awakened to the deep mysteries of life; the search for truth is a religious quest as well as an educational goal.

The chapel at Mount Allison, located at the heart of the campus, is a visible symbol of the commitment of the university to the importance of faith in university life. It stands as a reminder that the university is committed to nurturing students as whole human persons.

While founded under Methodist direction, Mount Allison upholds freedom of religion and creeds. Chapel worship and activities are ecumenical by design; the Office of the Chaplain is intended to be an ecumenical appointment, responsive not only to the many Christian denominations represented on campus but to the diversity of religious traditions. The Chaplain is open to engaging students of all religions in faith development.

## 6.10.2 The Chapel

The Chapel on campus is a refuge and a retreat in the midst of the activity around it; it is open daily for quiet reflection or prayer. Its exterior design makes it accessible from any direction on campus; the interior design naturally draws the eye upwards. The chapel is used primarily for worship, but individuals and groups associated with the university may arrange with the Chaplain for the use of the chapel for purposes that reflect the goal of nurturing religious life on campus.

The chapel was built and dedicated in 1965 through the initiative and generosity of the Rev. C.H. Johnson, and with the support of many other alumni, friends of the university, church people of the region and other individuals and institutions.

The organ is a gift of a former Chancellor, Dr. Ralph P. Bell, in memory of his mother. The stained glass windows were given by Marjorie Young Bell. A permanent record of the gifts is found in "The Book of Remembrance" in the narthex of the chapel. A small meditation room for private or small group prayer or worship is located to the right of the front of the sanctuary; the Chaplain maintains a study to the left side. The Manning Room in the basement is named for the generous gift of Mrs. Gladys M. Manning, and is dedicated to the religious and social life of the campus.

A multi-faith prayer room is available in the chapel; this room is intended for private or small group prayer in a comfortable setting supportive of all religious traditions. A Muslim student group makes use of this prayer room every Friday.

## 6.10.3 Worship

Sunday evening worship services, or vespers, are held throughout the academic year. Other special services in the week take place through the year.

The Chaplain provides leadership in worship, drawing on students and other members of the University community. Students take an active role in the chapel programs, sharing in planning, preparing and leading worship.

## 6.10.4 The Chaplain

The Chaplain oversees the Chapel and its programs and worship; the mandate of the Chaplain goes beyond worship and extends to nurturing spiritual life on campus to include counsel and comfort for those needing encouragement or support, to being a refuge to those in need, to enriching University life. All the work of the Chaplain is undertaken regardless of the religion, ideology or faith of those who seek. The Chaplain is appointed by the University and serves as Chaplain to the whole community, including both students and employees, with a responsibility to speak to the university as well as from within it.

## 6.10.5 Student Groups

Students engage in their faith pilgrimages in many ways, and the University provides ample opportunity to develop in faith. The Chapel services give opportunity to share in worship and develop leadership abilities; the Chapel Choir provides a way to express faith in music. Student groups operate autonomously, but often in conjunction with the Chaplain.

Inter-Varsity Christian Fellowship has an active group that offers fellowship, singing, Bible study and prayer. The Student Christian Movement is also very active, and encourages students to translate Christian faith into action through issues of peace and social justice.

The Pre-Theology Society comprises those students who are considering ministry, and it meets occasionally for fellowship, study and mutual support.

## 6.10.6 Programs

Religious awareness and spiritual development are the concern of a variety of programs initiated by student groups, the Department of Religious Studies and the Office of the Chaplain. These may include guest lecturers, forums for dialogue on religious matters, and other special events.

# 6.11 STUDENT LIFE

## 6.11.1 The Director of Student Life

The Director of Student Life is responsible for the quality of student life and for maintaining effective liaison with student administrative bodies, student organizations and individual students. The Director oversees orientation, the campus life of students, the quality of residence life, health services, counselling services, and the implementation of governance and liquor policies. The Director of Student Life, and other staff in Student Life are available for consultation and guidance on academic, personal and social matters.

## 6.11.2 Academic Concerns

Students with academic concerns are encouraged to speak first with their professors and/or with the Student Development Counsellor, or with the Head of the Department or appropriate academic Dean.

### 6.11.3 Academic Support

Assistance with academic skills is provided by Student Life in partnership with the Purdy Crawford Teaching Centre through Writing resource programs offered at the Library. Support and assistance is available on a group or individual basis. Topics addressed include: memory, time and lifestyle management, note-making, writing, preparing for and writing examinations, and motivation. For details please contact the Coordinator of Academic Support Services.

### 6.11.4 Writing Resource Centre

Student Life in partnership with the Department of English operates a Writing Resource Centre to assist any student to put thoughts on paper and complete written assignments in a variety of academic disciplines. The Centre is located in the main library, M13.

### 6.11.5 Math Resource Centre

The Math Resource Centre is a drop-in service for students who need assistance in Mathematics. This service is available for any student who wishes to improve their mathematical skills. The Math Resource Centre is primarily directed to those in first year Mathematics courses, but students in any MtA course who want help in math-related topics are welcome to use the Math Resource Centre. The Centre is located in the library.

### 6.11.6 Residence Academic Mentors

Residence Academic Mentors assist residence students with academic resources necessary for academic assistance. Most residences are assigned two mentors to organize help sessions, provide access to tutors, and hold regular office hours in their respective residences. Please feel free to contact any of them at any time in person or email if you have any questions, concerns, or suggestions.

### 6.11.7 Academic Tutors

A list of tutors who may be able to help you with your courses is available on the Student Life web page. To be a tutor please see the *Academic Tutor Application* form available on the Student Life webpage.

## 6.12 STUDENT LIFE RESOURCES

### 6.12.1 Personal Counselling

The demands of studies can be particularly stressful when students encounter additional challenges of health, family, relationships or other life issues. Mount Allison provides two accredited Personal Counsellors, from whom students may receive confidential support and assistance for a variety of personal issues including anxiety, depression, alcohol or drug use, sexuality, relationships, sexual assault, family dysfunction and grief. The need for psychiatric and other mental health services can be accessed through the personal counsellors who may be accessed at the Wellness Centre, ground floor of the Wallace McCain Student Centre

In emergencies students may contact the Wellness Centre during office hours, or the Sackville Memorial Hospital.

### 6.12.2 Sexual Harassment Advisor

The University's Sexual Harassment Advisor is available to provide education on sexual harassment and assault and to receive complaints from students, staff and faculty. The Advisor has copies of the University's policies and upon request will advise those who contact her about the options available both on and off campus.

### 6.12.3 Career Services Office

The Career Services Coordinator is located in the Wallace McCain Student Centre and provides information on graduate and professional programs, careers, study, volunteer, and work abroad programs. Information is available on occupational profiles, labour market trends, résumé writing, job search techniques and preparing for interviews. Workshops are also available on career related issues throughout the academic year. The Career Services Coordinator offers guidance with career exploration through individual consultations.

### 6.12.4 Employment

On-campus part time job opportunities are plentiful at Mount Allison. Students may earn extra income through employment with Dining Services, the Library, the Event Services Staff, Residence Staff, Bar Services, the Pond and various academic departments. Contact the appropriate department of interest for details and/or the Career Services Office.

An on-line job board is available to students at **<www.mta.ca/careers/jobs>**. Hard copies of job postings, a variety of internships and on and off-campus career and summer employment opportunities, both part-time and full-time, are posted on a notice board located on the ground floor of the Wallace McCain Student Centre. Federal and provincial summer employment program info brochures are also available at Career Services Office on the second floor of the Wallace McCain Student Centre.

### 6.12.5 Health Services

Within the Wellness Centre is a non-emergency health service for all Mount Allison Students open during the academic year (September to mid- April). It is a non- judgmental health service that strives to reduce health barriers for young adults living away from home with the support of a Registered Nurse/Educator. All health services are strictly confidential. Health information can only be released with the student's written authorization.

In order to promote and enhance students' good health and well-being, the Registered Nurse/Educator co-ordinates health care services of Mount Allison students, by triaging their individual needs. A Family Physician provides limited clinic hours at the Wellness Centre. Emergencies are dealt with at the Emergency Department of the Sackville Memorial Hospital.

Also the Wellness Centre provides comprehensive health care needs of students through health promotion initiatives, health education, testing, health counselling, clinical services, and referrals, when appropriate. Please see a list of student health services available on the Mount Allison University health web page at **<www.mta.ca/health>**

### 6.12.6 Student Health Insurance

The Mount Allison Student Union (MASU) provides extended health and dental coverage to all students. All full-time students are automatically charged for the extended health and dental plans but can opt out if they provide MASU with proof of equivalent insurance coverage from another provider. Full-time international students are additionally covered by the MASU Basic Medical Insurance Plan. To

opt out of the plan, students must provide MASU with proof of equivalent insurance coverage from another provider. Visiting exchange students and Canadians without provincial health care coverage can apply through MASU for medical coverage under the same plan. For more, go to the MASU website at <**www.masu.ca**> or email <**masuhealth@mta.ca**>

### 6.12.7 Dietary and Nutritional Concerns

To discuss dietary and nutritional concerns please contact Dining Services (506) 364-2423

### 6.12.8 Lifestyle Concerns

Information, materials and programs on health, lifestyle choices, stress management, sexuality, birth control, AIDS, sexually transmitted diseases, alcohol, drugs, and similar concerns, are available through Student Life. Programs will be presented on request.

### 6.12.9 Landlord/Tenant Concerns

Students with inquiries about landlord/tenant relations or leases are encouraged to contact the Office of the Rentalsman in Moncton.

### 6.12.10 International Students

Mount Allison strives to provide a welcoming, engaging, and supportive learning environment for students from all nationalities and backgrounds. Students with citizenship outside of Canada form an important part of Mount Allison's international community. To facilitate the social, cultural, and academic adjustment to life at Mount Allison, the International Centre organizes international orientation sessions prior to the start of each term. Support continues throughout the year in the form of dedicated programs and services, as coordinated by the International Advisor. For a full list of programs and services visit the International Centre's website. The Mount Allison campus community features a range of clubs, societies, committees and projects which help to promote cross-cultural awareness, understanding, and appreciation. Mount Allison University has strict guidelines which protect all students' right to live and study in an environment free from fear of discrimination on the basis of race, religion, ethnicity, and national origin.

### 6.12.11 Governance

Since 1989, students have been subject to the student governance system described in the document Policies and Procedures for Student Governance, which is available from the Mount Allison Students' Union or Student Life. The Director of Student Life is available to explain to students how the governance system works and what students' rights are under the system. All students admitted to the University agree to abide by, and be subject to, the regulations as outlined in this document. The University reserves the right to suspend or dismiss any student for infractions of the regulations. Neither the University nor any of its regents or officers shall be under any liability whatsoever because of such action.

## 6.13 SERVICES FOR STUDENTS WITH DISABILITIES

### 6.13.1 Policy on Students with Disabilities

Mount Allison University is proud to be an institution that welcomes and supports a diverse student body. To this end, Mount Allison is committed to providing support for students with disabilities, and, where warranted and without compromising academic standards, will provide reasonable accommodations.

Copies of the University's Policy on Students With Disabilities may be obtained from Student Life and can be viewed on the Mount Allison website.

The Meighen Centre provides a range of services to support the academic needs of students with disabilities. All inquiries related to services and accommodations for students with disabilities should be addressed to the Manager's office at (506)364-2527. Before services and accommodations can be provided, students must present documentation of their disability to the Meighen Centre.

### 6.13.2 The Meighen Centre

The Meighen Centre provides services including academic counselling, learning strategies instruction, a peer tutoring program, a note taking program, assistance with Canada Access Grant applications, access to and instruction in the use of assistive technology, access to text books in alternate format, and the provision of accommodations for writing tests and examinations when appropriate. For more information about the Meighen Centre, please consult <**http://www.mta.ca/meighen**>.

Students with a disability who are applying for admission to Mount Allison are strongly encouraged to identify themselves on the application form. As well, they should make contact with the Meighen Centre as early as possible in the admissions process.

Students currently attending Mount Allison who have been previously identified with a disability, or who suspect they have a disability, and who want to access support services should contact the Manager of the Meighen Centre at (506) 364-2527.

# 7 GENERAL INFORMATION

## 7.1 THE MOUNT ALLISON UNIVERSITY LIBRARIES AND ARCHIVES

The Mount Allison University Libraries and Archives include the Ralph Pickard Bell Library, the Alfred Whitehead Music Library, and the University Archives. The libraries provide Mount Allison students, faculty, and staff with global access to electronic, print, and audio-visual information. They are committed to working with students and faculty to promote information literacy -- accessing, critically evaluating, and using information effectively and ethically. Librarians offer in-depth reference services, in-class instruction, and research consultations by appointment.

The Mount Allison University Libraries hold over 700,000 books, videos, DVDs, audio materials, microforms, maps, etc., and provides access to the contents of over 200,000 journals in various formats. The **Ralph Pickard Bell Library** houses all the University's collections except music, including collections of rare books, maps and manuscripts dating from as far back as the 17th century.

The Libraries are open seven days a week during the school year. Students can access the electronic library catalogues and databases from anywhere they have Internet access, on or off campus. In addition, as a member of the Council of Atlantic University Libraries (CAUL), the Libraries provide interlibrary loan services that allow students and faculty to borrow materials from libraries worldwide.

The **Alfred Whitehead Music Library** is home to impressive collections of printed music (over 24,000 items); books and periodicals (over 11,000 volumes), more than 7,500 commercial audio and video recordings, and an archive of Mount Allison Department of Music concert recordings going back to 1968. Specialized online databases such as Naxos, Oxford Music Online, and RILM Abstracts of Music Literature can be accessed on or off campus.

The **University Archives** is housed in the Ralph Pickard Bell Library. Archival holdings support the University's administrative operations and also act as primary research sources for faculty, students, alumni and the general public.

The Archives acquires, preserves and makes available the archival records of Mount Allison University which have long term legal, financial, and historical value. Holdings consist of over 2,000 feet of textual records, approximately 10,000 photographs, as well as manuscript maps, architectural drawings, videocassettes, films and sound recordings. Records and publications of the Board of Regents, Senate, Faculty Council, Office of the President and all University units, departments and programs, as well as records and publications related to faculty, student and campus life from 1843 to the present are acquired. The Archives also obtains selected private fonds and collections related to the greater Chignecto area of Westmorland County, New Brunswick. Holdings include family papers, business records, and records of local clubs and organizations. Archival documents must be examined in the Archives and are not available for loan. The Archivist offers reference services, in-class instruction and research interviews by appointment.

## 7.2 THE LIBRARIES' ENDOWMENT FUNDS

### TANNIS ALLISON FUND

A fund established in 1967 by a bequest of the late Tannis Allison to commemorate the names of David Allison, president of Mount Allison University, 1869-1878, and 1891-1911, his wife, Elizabeth A. Allison, Henry Augustus Allison, and his wife Tannis Allison.

### MARY MELLISH ARCHIBALD MEMORIAL FUND

A fund established in 1956 by a bequest of the late Raymond Clare Archibald, 1894. The income is used to maintain the Mary Mellish Archibald collection which Dr. Archibald had established in 1905 in memory of his mother, Mary (Mellish) Archibald, and had continued to develop until his death in 1955.

### ARCHIVES ENRICHMENT FUND

Established in 1987 by the Class of '36, the Archives Enrichment Fund supports the development and preservation of the holdings of the Mount Allison archives.

### THE ANNE WHITTAKER AND PERCY SIMPSON BAILEY ENDOWMENT FUND

A fund established in 1976 by the will of the late Percy Simpson Bailey, B.A., 1907, to purchase books in the Departments of Mathematics, Physics, Geology and Classics.

### VISCOUNT BENNETT FUND

A fund established in 1962. The income from this fund is for books in Canadian History and Politics.

### WILLIAM HAROLD BLACK MEMORIAL FUND

A fund established in 1980 by C.F. Black, Margaret Folkins and Dorothy Silvester in memory of their brother William Harold Black. The income is used to purchase recordings for the music appreciation course.

### RALPH B. BRENAN FUND

A fund established in 1973. The income is used to strengthen Library resources in Marketing.

### OLGA BERNICE BISHOP FUND

A fund established in 2002 from the estate of Olga Bernice Bishop to be used for the purchase of library materials

### CANADIAN MUSIC ENDOWMENT FUND

A fund established by an anonymous donor in 1979. The annual income is used to purchase Canadian Music recordings and scores.

### CLARK MEMORIAL FUND

A fund established in 1982 by Stephen D. Clark and June D. Clark in memory of members of their families. A portion of the income is to be granted to the Library to buy books for the Biology Department.

## E. RUTH COGSWELL MEMORIAL FUND

A fund established by the family and friends of Elva Ruth Cogswell (B.A. '84) in 1986. The annual income provides books related to the field of Canadian Studies.

## JULIA COLPITTS MEMORIAL FUND

A fund established in memory of Julia T. Colpitts, 1899, by her brother, Edwin H. Colpitts, 1893. The income from this fund is used to purchase Mathematics books .

## THOMAS EARLE COLPITTS MEMORIAL FUND

A fund established in 1969 to commemorate the teaching career of Thomas Colpitts, class of 1879, by his granddaughter, Dr. Olga Bishop, class of 1938, to be used to purchase books in the field of Education.

## THE CONNECTICUT RIVER VALLEY ALUMNI SOCIETY ENDOWMENT FUND

The income from the fund is used to purchase books in the field of Chemistry.

## DONALD DARRACH MEMORIAL FUND

A fund established in memory of Dr. Donald Darrach, by his wife, Typhenia Tuplin, L.C. 1870-71.

## LEON ESTABROOKS MEMORIAL FUND

A fund established in memory of Leon Estabrooks, class of 1951, by his parents, the income from which is used for books in the fields of Arts and Crafts.

## THE MARGARET EVANS MEMORIAL LIBRARY FUND

A fund established in 1971 from a bequest from the estate of William Benton North Evans, the income to be used to purchase materials on church and organ music.

## THE GLENDENNING FUND

A fund established by Reverend G.W.F. Glendenning, class of 1884, and Mrs. Glendenning (Ellen Bent, L.C. 1882-83), the income from which is to be used for books in English Literature.

## DONALD T. GOODWIN FUND

A fund established in 1980, the income of which is for books in Canadian Studies.

## JACK K. GRAINGER MEMORIAL FUND

A fund established in 1988 by Mrs. Jean Grainger and the Grainger family in memory of Jack K. Grainger (B.A. '33, M.A. '34), a former member of the Board of Regents. The annual income is for books relating to English and History.

## ANN HENDERSON MEMORIAL FUND

A fund established in memory of Ann Henderson, class of 1959, for books in the field of Music.

## THE THOMAS HICKS FUND

A fund established in 1939 by a bequest of Reverend Thomas Hicks (1853-1932) upon the death of his wife in January 1939.

## HOLDER/STROTHARD MEMORIAL FUND

A fund established in 1984 by Dr. Clinton H. and Kathleen Strothard Holder in memory of their parents. The income is to be used by the Department of Chemistry & Biochemistry for library acquisitions.

## MARY ANN HOWARD MEMORIAL FUND

A fund established by her son, the Rev. Samuel Howard (B.A. '84, B.D, '95, D.D., '23), and the Rev. William J. Howard (B.A., '88, B.D.' 91). The income is to be used for books in Canadian Studies.

## DOROTHY HUNTON LIBRARY MEMORIAL FUND

A fund established in 1978 to commemorate the work of Dorothy Hunton in promoting literature for boys and girls in the community. The income is used to purchase children's classics, new and old.

## S.C. LAWRENCE IP LIBRARY FUND

A fund for the purchase of materials on U.S. foreign relations, established in April 1973 by S.C. Lawrence Ip, a third year Arts student.

## THE CECIL RECORD JOHNS MEMORIAL LIBRARY FUND

A fund established in 1969 by the family and friends of Cecil Record Johns, who was a faculty member of the Department of Music, 1927-1931. The income from this fund is to be used to purchase books in Music.

## THE DAVID W. JOHNSON AND JENNIE L. JOHNSON FUNDS

Funds established in memory of Rev. D.W. Johnson, 1873 and Mrs. Johnson (Jennie L. Morse, M.L.A., 1872), by their sons, C.H. Johnson, 1898 and A.L. Johnson, 1903. The income from the former is for binding of periodicals and from the latter for books in Canadian Literature.

## PHYLLIS K. LUNDY ROSS LIBRARY FUND

A fund established in 2002. This fund is to be used for the purchase of Library books related to the English Department.

## PROFESSOR J. T. MACFARLANE LIBRARY FUND

A fund established in 1991 at the time of Professor MacFarlane's retirement from Mount Allison University. The income is for Physics books.

## EDWIN ROBINSON MACHUM FUND

A fund established in 1981 by a bequest from the estate of Mrs. Marion H. Bennett in memory of her father, Edwin Robinson Machum, who was a student and friend of the University, and, for many years, a member of the Board of Regents. The income is for books, preferably in English literature.

### MORTON MEMORIAL FUND

The Morton Memorial Fund was established in 1977 by Dr. Harry S. Morton, O.B.E., LL.D., F.R.C.O.G., F.R.C.S., in memory of his grandfather, The Rev. Arthur Dwight Morton, B.A., 1864, M.A., 1870, D.D., 1903, and in memory of his father, Dr. Charles Stuart Morton, M.B.M.D. (Tor.), F.A.C.S., F.R.C.S., (C) and his mother, Maie Howard Stafford, Ladies College 1900-1902. Eighty percent of the endowment interest is to develop the library collection and is divided equally between Biology, Biochemistry, and History at the discretion of the University Librarian. The balance of the income is returned to the Fund capital.

### THE HATTIE BLACK PATERSON MEMORIAL FUND

A fund established in 1928 and since largely augmented by the late Mr. B.E. Paterson in memory of his wife, (Hattie Snowball Black, Piano 1881). The income is for books of general interest, including travel and biographies.

### GEORGE PROCTOR FUND

A fund established in 1995. This fund is to be used for the enhancement of the collections of the Music Library.

### DR. ELLA SMITH MEMORIAL LIBRARY FUND

A fund established in 1973 in memory of Ella Smith, M.A., D.Litt. by her sister. The income of this fund is for history books, to commemorate Dr. Smith's years as professor of History at Mount Allison University.

### JAMES C. REID FUND

A fund established in 2002 from the estate of James C. Reid to be used for the purchase of library books.

### CAPTAIN WILLIAM ALFRED SEAMAN FUND

A fund established in 1987 by Louise V.D. Seaman in memory of her husband. The income is for books in Religious Studies.

### THE REVEREND E.C. TURNER MEMORIAL FUND

A fund established in memory of her father by Miss Clara G. Turner, of the State Teachers' College, Harrisburg, Virginia. The income from this fund is mainly for books in Theology.

### WILLIAM MORLEY TWEEDIE MEMORIAL FUND

A fund established in 1952 by the will of the late William Morley Tweedie for standard works in English language and literature.

### JEAN T. WARD FUND

A fund established from the estate of Jean T. Ward for the purchase of library materials.

### FRANK L. WEST LIBRARY FUND

A fund established in 1975 in memory of Frank Leslie West, who was associated with Mount Allison University as a student, a member of and head of the Engineering Department, Dean of Science, and Vice-President, during the years 1908-1962. The income from this fund is for books on community planning and sports and general science reference books.

### THE EDGAR WOOD FUND

A fund established in memory of Edgar Wood, 1894, by his wife.

## 7.3 THE MOUNT ALLISON FEDERATED ALUMNI, INC.

The Alumni Society of the Mount Allison College and Academy was established in 1874. The Alumnae Society of the Mount Allison Ladies College was organized in 1871. In 1937, the two societies united and, by an Act of the New Brunswick Legislature, formed the Mount Allison Federated Alumni, Inc.

Throughout the years, Alumni have given generously of their time, talents, and resources to continue Mount Allison's tradition of outstanding liberal education.

Operating from Centennial Hall, 65 York Street, the Alumni staff keeps records of more than 20,000 Allisonians, produces and distributes the Mount Allison Record, and maintains liaison with graduates, non-graduates, and friends throughout the world.

The Federated Alumni elects 4 members to the Mount Allison Board of Regents.

For more than a century, Allisonians have undertaken to provide strong support to a large number of Mount Allison endowments. Scholarships, bursaries, buildings, and equipment have all benefited from the enthusiastic assistance of the University's alumni.

The Federated Alumni is active in recruiting students and is ready to assist the University, parents, and prospective students in appropriate action to assure the continued enrolment of energetic and stimulating students.

### 7.3.1 Alumni Board of Directors

| **Officers** | |
|---|---|
| Honorary President | Brian Black '69 |
| Past President | Sean Connors '81 |
| President | Christina Vroom '96 |
| Vice-President and Secretary | Charlie Scott '83 |

| **Directors** | |
|---|---|
| Owen Barnhill | '96 |
| Mike Taylor | '02 |
| Meg Pride | '74 |
| Janet Harrison | '87 |
| Anna Abbott | '04 |
| Scott Yorke | '08 |
| Alex Morrison | '68 |
| Rick Gant | '84 |
| John Phillips | '85 |
| Christie Demont | '80 |
| Cheryl Bell | '83 |
| Jennie Henderson | '03 |

## 7.4 COMPUTER FACILITIES

There are several publicly accessible computer labs on campus. The Computing Services Helpdesk is open weekdays to assist students and staff. Laser printing is available at several locations. The Multimedia Production Centre, located in the Ralph Pickard Bell Library has several

Macs with a number of digital media production software and hardware packages including video editing suites, flatbed, slide, and negative scanners, graphics software, and more. Equipment including cameras, video cameras, tripods, laptops, and data projectors can be signed out from Computing Services for course work and extra-curricular events.

### 7.4.1 Software

Software available in the labs includes Web browsers, E-mail, Microsoft Office for word processing, presentations, and spreadsheets and several mathematics, statistical and scientific packages. Several programming languages and many other course-specific programs are available.

### 7.4.2 Campus Network

The campus network has a Gigabit Ethernet backbone, with switched Ethernet connections to the desktop. Thirty-six campus buildings are connected to the campus fibre-optic network. All offices, classrooms, and student residence rooms have network jacks. The University is a member of the NB/PEI Educational Computer Network (ECN) and has a Gigabit connection to other ECN institutions and a shared 150 Megabit connection to the Internet. A Gigabit connection from campus to Ca*Net 4 is available as well. Mount Allison also has a wireless network covering the entire campus.

### 7.4.3 Residence Networking

A high speed network connection is available for a small fee to all students living in residence who have a computer. Students also have access to the high speed wired and wireless network in residence. A large networked printer (using web print) is available in Jennings Hall for printing and copying using Mountie Money.

### 7.4.4 Computing Services

Computing Services, located in the Bennett building at 10 Salem Street, manages and maintains the University's computing and network resources, and provides advisory and training assistance to all members of the university community through the Helpdesk and Student Helpdesk Consultants.

## 7.5 MOUNT ALLISON UNIVERSITY BOOKSTORE

Textbooks, fine arts supplies and materials required for courses offered by Mount Allison University are available for sale at the Bookstore located on the ground floor of the Wallace McCain Student Centre. The Bookstore, owned by Mount Allison University, makes textbooks and required course materials available to students at the lowest possible prices.

Hours of operation are normal working hours 8:30 a.m. to 4:30 p.m. with extended hours in September. Payment may be made by cash, cheque, VISA, Mastercard, American Express and Interac direct payment. Books on Beds and other orders may be placed on-line at < **http://bookstore.mta.ca** > for the month before the term begins in both September and January.

## 7.6 BANKING SERVICES

Branches of the Royal Bank of Canada and the Bank of Nova Scotia are located in Sackville and include 24 hour ATM services at their locations. In addition, a TD Bank ATM is located on the ground floor of the Wallace McCain Student Centre.

## 7.7 PERFORMING ARTS SERIES

Each year the University helps sponsor a series of performances by groups and artists distinguished in the field of high quality entertainment. Mount Allison students have the opportunity to reserve tickets for these performances on specially favourable terms. Full details are available in the Performing Arts Series Brochure supplied to students each September.

# 8 PERSONNEL

## 8.1 OFFICERS OF THE UNIVERSITY

### CHANCELLOR

Peter Mansbridge

### PRESIDENT AND VICE-CHANCELLOR

Robert M. Campbell

## 8.2 THE REGENTS OF MOUNT ALLISON

### EX-OFFICIO MEMBERS

Robert M. Campbell, Sackville, New Brunswick
Peter Mansbridge

### APPOINTED BY THE BOARD OF REGENTS

Jane Craighead, Montreal Quebec
James M. Dickson, Halifax, Nova Scotia
Mark Fraser, Halifax, Nova Scotia
Brian Harrisson, Fredericton, New Brunswick
Tom Hierlihy, Oakville, Ontario
Barry Kyle, Bathurst, New Brunswick
Susan McIsaac, Amherst, Nova Scotia
Vicki McKibbon, Moncton, New Brunswick
Ron W. Outerbridge, Saint John, New Brunswick
Jane Ralling, Charlottetown, Prince Edward Island
J. Peter Winters, Toronto, Ontario
Sarah Young, Halifax Nova Scotia

### APPOINTED BY THE MOUNT ALLISON FEDERATED ALUMNI

Andrew Clark, Toronto, Ontario
George Cooper, Moncton, New Brunswick
Brian MacLeod, Antigonish, Nova Scotia
Jill Rafuse, Halifax, Nova Scotia

### APPOINTED BY THE UNITED CHURCH OF CANADA

Andrew Richardson, Summerside, Prince Edward Island
Carol Chapman, Shediac, New Brunswick

### APPOINTED BY THE FULL-TIME TEACHING FACULTY

Bruce Robertson, Sackville, New Brunswick
Mark Fedyk, Arlington, Virginia

### APPOINTED BY THE MOUNT ALLISON STUDENTS' UNION

Willa McCaffrey-Noviss, Sackville, New Brunswick
Ryan LeBreton, Sackville, New Brunswick

### SECRETARY OF THE BOARD

Robert Inglis

## 8.3 THE SENATE OF MOUNT ALLISON

Peter Mansbridge, Chancellor
Robert M. Campbell, President and Vice-Chancellor
Craig Brett, Secretary of Senate

### REPRESENTATIVES OF THE BOARD OF REGENTS

Alex Fancy
Nancy Vogan

### REPRESENTATIVE OF THE FEDERATED ALUMNI

Bill Evans

### EX-OFFICIO MEMBERS

Marc Truitt, University Librarian
Nauman Farooqi, Dean of Social Sciences
Jeff Ollerhead, Provost and Vice-President, Academic and Research
Amanda Cockshutt, Dean of Science and Graduate Studies
Chris Parker, Registrar
Elizabeth Wells, Dean of Arts

### FACULTY REPRESENTATIVES

Andrew Irwin
Owen Griffiths
Terrance Craig
Jeffrey Waller
Jeff Lilburn
Loralea Michaelis

### FACULTY COUNCIL EXECUTIVE

Lauren Beck
Geoffrey Cruttwell

### DEPARTMENTAL REPRESENTATIVES

Robert Lapp, English
Craig Brett, Economics
, Chemistry & Biochemistry
David Fleming, Physics
Andrew Wilson, Religious Studies
Gene Ouellette, Psychology
Bruce Robertson, Classics
Jeff Lilburn, Ralph Pickard Bell Library
Thaddeus Holownia, Fine Arts
Loralea Michaelis, Political Science
Suzie Currie, Biology
, Modern Languages & Literatures
Jane Dryden, Philosophy
Leslie Kern, Women's and Gender Studies
Peter Sianchuk, Ron Joyce Centre for Business Studies
Christl Verduyn, Canadian-Studies
Glen Nichols, Drama
Andrew Irwin, Math and Computer Science
William Wilson, History
Robert Adlam, Anthropology
Tim Reiffenstein, Geography and Environment
David Rogosin, Music
Erin Steuter, Sociology

### STUDENT REPRESENTATIVES

Sarah Murphy
Tierra Stokes
Kiera Stel
Rachel Howlett
Akarsh Par
Andrew Moriera

### ASSOCIATE MEMBERS

Pierre Arsenault, Director of Physical Recreation and Athletics
Kim Meade, Vice-President International and Student Affairs
Ryan LeBreton, President, MASU
Eileen Herteis, Purdy Crawford Teaching Centre
Kenneth A. MacIver, Director, Ron Joyce Centre for Business Studies
Gloria Jollymore, Vice-President University Advancement
Robert Inglis, Vice-President Finance and Administration
Mary Emma MacNeil, Vice-President Academic Affairs, MASU

## 8.4 OFFICERS OF ADMINISTRATION

**President and Vice-Chancellor**
Robert M. Campbell, B.A., M.A., Ph.D.

**Secretary to the Board of Regents**
Robert Inglis, B.Comm., CA

**Provost and Vice-President, Academic and Research**
Jeff Ollerhead, B.Sc., M.Sc., Ph.D.

**Vice-President, Finance and Administration**
Robert Inglis, B.Comm., CPA, CA

**Vice-President, University Advancement**
Gloria Jollymore, B.A., M.B.A.

**Vice-President, International and Student Affairs**
Kim Meade, B.A., M.A.

**Dean of Arts**
Elizabeth Wells, B.Mus., M.A., Ph.D.

**Dean of Social Sciences**
Nauman Farooqi, B.Sc., M.B.A., Ph.D.

**Dean of Science and Graduate Studies**
Amanda Cockshutt, B.Sc., Ph.D.

**Director, Ron Joyce Centre for Business Studies**
Kenneth A. MacIver, B.A. M.P.A., Ed.D.

**Acting Director of Student Life**
Adam Christie, B.A.

**University Librarian**
Marc Truitt, B.A., M.A., M.S.

**Registrar**
Chris Parker, B.F.A.

**Associate Registrar, Student Records and Services**
Maria Thistle, B.Sc., M.Sc.

**Acting Associate Registrar, Recruitment and Admissions**
Curtis Michaelis, B.A.

**Financial Aid and Awards Counsellor**
Margaret Esparza-Lee, B.B.A., M.B.A.

**Manager, Institutional Research and Enrolment Analysis**
Jonathan Parsons, B.A.

**Controller**
Barbara MacIntosh, B.Comm., CPA, C.A.

**Secretary of the Senate**
Craig Brett, B.A., M.A., Ph.D.

**Secretary to the Faculty Council**
Lauren Beck, B.A., M.A., Ph.D.

**Director of Administrative Services**
Michelle Strain, B.A.

**Director of Alumni and Development**
Carolle de Ste.-Croix, B.A.

**Director of Computing Services**
Helmut K. Becker

**Director of Facilities Management**

**Director of Human Resources**
Ron Sutherland, B.Comm.

**Director and Curator of the Owens Art Gallery**
Gemey Kelley, B.A., B.F.A.

**Director of Physical Recreation and Athletics**
Pierre Arsenault, B.P.Ed., M.A.

**Director of the Purdy Crawford Teaching Centre**
Eileen M. Herteis, M.A., M.A.

**Co-ordinator of Leadership Mount Allison**

**Sexual Harassment Advisor**
Melody Petlock, B.A.

## 8.5 CHANCELLORS EMERITI

Margaret Norrie McCain, O.C., B.A., B.S.W., LL.D.

## 8.6 PRESIDENTS EMERITI

Guy Robertson MacLean, B.A., M.A., Ph.D.

Ian David Campbell Newbould, B.A., M.A., Ph.D., F.R.H.S.

## 8.7 REGISTRARS EMERITI

Leonard A. Owen, B.A., M.A.

## 8.8 PROFESSORS EMERITI

Ken Adams, B.Sc., M.Sc., Ph.D., Associate Professor of Chemistry, Emeritus

Catherine Anne Baker, B.Sc., M.Sc., Ph.D., Professor of Mathematics and Computer Science, Emeritus

Patrick Baker, B.A., Ph.D., Professor of Anthropology, Emeritus

Lawrence Ross Coates Barclay, B.Sc., M.Sc., Ph.D., Professor of Chemistry, Emeritus

Margaret Beattie, B.Sc., M.Sc., Ph.D., Professor of Mathematics, Emeritus

Ronald Beattie, B.Sc., M.Sc., Ph.D., Professor of Mathematics, Emeritus

Monika Boehringer, B.A., M.A., Ph.D., Professor of French, Emeritus

Paul Bogaard, B.A., M.A., Ph.D., Professor of Philosophy, Emeritus

Rebecca Burke, B.A., M.F.A, Professor of Fine Arts, Emeritus

Roger Calkins, B.A., M.A., Ph.D, Professor of English, Emeritus

Brian Lewis Campbell, B.Sc., B.Phil., Ph.D., Professor of Sociology, Emeritus

George Paul Cant, B.Sc., M.Sc., Ph.D., Associate Professor of Physics, Emeritus

Geoffrey Carpenter, Dip., Lic., Associate Professor of French and Spanish, Emeritus

Belinda Code, B.Mus., M.Mus., Professor of Music, Emeritus

James Grant Code, B.S., M.Mus., D.M.A., Professor of Music, Emeritus

Mervyn Crooker, B.A., M.A., Associate Professor of Fine Arts, Emeritus

Roland Crooks, B.A., M.A., Associate Professor of Psychology, Emeritus

Donald Cross, B.A., M.A., Associate Professor of English, Emeritus

George DeBenedetti, B.A., M.A., Professor of Economics, Emeritus

Peter J. Edwards, B.A., B.A., M.A., Ph.D., Professor of French, Emeritus

Brian J. Ellard, B.Mus., M.A., Ph.D., Professor of Music, Emeritus

Peter M. Ennals, B.A., M.A., Ph.D., Professor of Geography, Emeritus

Alexander Boyd Fancy, B.A., M.A., Professor of French, Emeritus

Danise Joy Ferguson, B.Mus., M.Mus., Associate Professor of Music, Emeritus

C.E. Berkeley Fleming, B.A., M.A., Professor of Sociology, Emeritus

Albert Joseph Furtwangler, B.A., M.A., Ph.D., Professor of English, Emeritus

Eugene Goodrich, B.A., M.A., Ph.D., Associate Professor of History, Emeritus

Colin Malcolm Grant, B.A., B.D., Ph.D., Professor of Religious Studies, Emeritus

Douglas Grant, B.Sc., Ph.D., Professor of Chemistry, Emeritus

Gareth Greenslade, B.Sc. (Econ.), M.Sc. (Econ), Associate Professor of Political Science, Emeritus

Kathryn Eryl Hamer, B.A., M.A., Ph.D., Professor of Modern Languages and Literatures, Emeritus

Janet Thom Hammock, Artist Dip., M.M.A., D.M.A., Professor of Music, Emeritus

Virgil Gene Hammock, B.F.A., M.F.A., Professor of Fine Arts, Emeritus

Gerald Hannah, B.Sc., B.E., M.E., P.Eng., Professor of Engineering, Emeritus

John G.E. Harpur, B.A., M.Sc., Ph.D., Associate Professor of Psychology, Emeritus

Robert Lewis Hawkes, B.Sc., B.Ed., M.Sc., Ph.D., P. Phys. Professor of Physics, Emeritus

Eldon Hay, B.A., B.D., M.A., Ph.D., Professor of Religious Studies, Emeritus

Brian Hede, B.Sc., Ph.D., Associate Professor of Physics, Emeritus

Rainer Lutz Hempel, B.A., M.A., Ph.D., Professor of Modern Languages and Literatures, Emeritus

Tom Henderson, B.A., M.F.A., Associate Professor of Fine Arts, Emeritus

David Higham, B.Sc., Professor of Mathematics and Computer Science, Emeritus

John Johannes Houtsma, Ec. Cand., M.A., Associate Professor of Economics, Emeritus

Thilo K. Joerger, M.A., Ph.D., Professor of German, Emeritus

Carrie MacMillan, B.A., M.A., Ph.D.,Professor of English, Emeritus

James Mark, B.Mus., M.Mus. D.M.A., Professor of Music, Emeritus

James Horace Matthews, B.Sc., M.Sc., Ph.D., Professor of Physics, Emeritus

Rodney McLeod, L.R.A.M., M.Mus., Associate Professor of Music, Emeritus

B. Arthur Miller, B.A., M.A., Ph.D., M.E.C., Professor of Mathematics and Computer Science, Emeritus

Michael Miller, B.A., M.A., Ph.D., Professor of Music, Emeritus

Peter Mitcham, B.A., M.A., Ph.D., Associate Professor of English, Emeritus

David J. Mossman, B.Sc., M.Sc., Ph.D., Professor of Geoscience, Emeritus

Dan C. Patridge, B.Sc., M.B.A., Professor of Commerce, Emeritus

Peter Penner, B.A., M.A., Ph.D., Professor of History, Emeritus

John Frederick Read, B.Sc., Ph.D., Professor of Chemistry, Emeritus

Vincent C. Reinsborough, B.A., M.A., S.T.B., Ph.D., Professor of Chemistry, Emeritus

Eric DeWitt Ross, B.A., M.A., Ph.D., Professor of Geography, Emeritus

Charles Scobie, B.D., M.A., S.T.M., Ph.D., Professor of Religious Studies, Emeritus

Robert P. Sealy, B.Sc., Ph.D., Professor of Mathematics and Computer Science, Emeritus

David Silverberg, B.A., Professor of Fine Arts, Emeritus

James A. Stark, B.A., M.Mus., Ph.D., Professor of Music, Emeritus

John M. Stewart, B.Sc., M.Sc., Ph.D., Professor of Biochemistry, Emeritus

Christine Storm, B.A., M.A., Ph.D., Professor of Psychology, Emeritus

Michael Thorpe, B.A., M.A., Professor of English, Emeritus

Elmer Tory, B.Sc., Ph.D., Professor of Mathematics and Computer Science, Emeritus

Michael J. Tucker, B.A., M.A., Ph.D., Professor of Political Science, Emeritus

Christiane Ullmann, B.A., Ph.D., Professor of German, Emeritus

Pravin K. Varma, B.E., M.E., B.Ed., P.Eng., Professor of Physics, Emeritus

Nancy F. Vogan, B.A., M.Mus, Ph.D., Professor of Music, Emeritus

Judith A. Weiss, B.A., M.A., Ph.D., Professor of Modern Languages and Literatures, Emeritus

Cyril Welch, B.A., M.A., Ph.D., Professor of Philosophy, Emeritus

Alex Whitla, B.Sc., Ph.D., Associate Professor of Chemistry, Emeritus

Alexander M. Wilson, B.Sc., M.Ed., Ph.D., Associate Professor of Psychology, Emeritus

## 8.9 LIBRARIANS EMERITI

Rhianna Edwards, B.A., M.A.S.

Cheryl Ennals, B.A., B.L.S., Archives Cert

Margaret Fancy, B.A., M.L.S.

Peter Higham, B.A., M.Mus, M.L.S, L.R.A.M.

Ruthmary MacPherson, B.Sc., M.L.S, M.B.A.

Brian McNally, B.Sc., B.Ed., M.A., M.L.S.

# 8.10 ACADEMIC STAFF

## 8.10.1 Professors

### Department of Anthropology

Adlam, Robert, B.Sc. (Trent); M.A., Ph.D. (Toronto); Associate Professor and Head of the Department

Kelly Spurles, Patricia, B.A., M.A. (McGill); Ph.D. (Montréal); Associate Professor

McLaughlin, Moira H.M., B.A., M.A.(Toronto); Adjunct Professor

Mooney, Nicola, B.A. (Toronto); M.M.S., Ph.D. (Toronto); Adjunct Professor

Walker, Marilyn, B.A. (Toronto); M.A. (Manitoba); Ph.D. (York); Professor

### Department of Biology

Aiken, Ronald Burleigh, B.Sc. (Maryland); M.Sc., Ph.D. (Toronto); Professor

Beaton, Margaret, B.Sc. (Guelph); MSc. (Windsor); Ph.D. (Guelph); Associate Professor

Campbell, Douglas, B.Sc. (Acadia); Ph.D. (Western Ontario); Professor of Biology and Biochemistry and Canada Research Chair in Environmental Sciences

Colvin, Susan, B.A. (Wisconsin); M.Sc. (Oregon State); Ph.D. (Auburn); Assistant Professor

Crosby, Karen, B.Sc. (Mount Allison), M.Sc. (UPEI); Ph.D. (Calgary); Assistant Professor

Currie, Suzanne, B.Sc. (Acadia); M.Sc., Ph.D. (Queen's); Professor and Head of the Department

Hamilton, Diana J., B.Sc. (McGill); M.Sc. (Western); Ph.D. (Guelph); Associate Professor

Hansen, Gay, B.Sc., M.Sc. (Acadia); Part-time Lecturer

Ireland, Robert John, B.Sc. (Hatfield Polytechnic); Ph.D. (London); Professor of Biology and Biochemistry

Kaczmarska-Ehrman, Irena, M.Sc., Ph.D. (Jagellonian); Professor

Litvak, Matthew, B.Sc. (York); M.Sc. Ph.D. (Toronto); Professor

Lloyd, Vett K., B.Sc. (British Columbia); M.Sc. (U. Geneva); Ph.D. (British Columbia); Professor

Morash, Andrea., B.Sc. (Mount Allison); Ph.D. (McMaster); Assistant Professor

### Canadian Studies Program

Jewett, Elizabeth L., B.A., M.A. (McGill); Ph.D. (Toronto); Postdoctoral Fellow in Canadian Studies

Nurse, Andrew, B.A. (Dalhousie); M.A., Ph.D. (Queen's); Associate Professor and Program Director

Verduyn, Christl, B.A. (Trent); M.A., Ph.D. (Ottawa); Professor in English and Canadian Studies

### Department of Chemistry and Biochemistry

Briand, Glen Gerard, B.Sc. (St. Francis Xavier); Ph.D. (Dalhousie); Associate Professor

Clark, Fraser, B.Sc. (Dalhousie); M.Sc. (Queen's); Ph.D. (Prince Edward Island); Assistant Professor

Cockshutt, Amanda M., B.Sc. (McGill); Ph.D. (Western Ontario); Associate Professor and Dean of Science and Graduate Studies

Duffy, Stephen, B.Sc. (Laurentian); M.Sc., Ph.D. (Queen's); Associate Professor

Fathi, Farkhondeh, B.Sc. (Isfahan); M.Sc. (Shahid Beheshti); Ph.D. (Toronto); Assistant Professor

Ghandi, Khashayar, B.Sc. (Iran); M.Sc. (Iran); Ph.D. (Simon Fraser); Associate Professor

Grant, Andrew, B.Sc. (Queen's); Ph.D. (New Brunswick); Associate Professor and Head of the Department

MacCormack, Tyson, B.Sc. (St. Francis Xavier); M.Sc., Ph.D. (Memorial); Associate Professor

Meli, Victoria, B.Sc., Ph.D. (McGill); Associate Professor

Waller, Jeffrey, B.Sc., M.Sc., Ph.D. (Queen's); Assistant Professor

Westcott, Stephen, B.Sc., Ph.D. (Waterloo); Professor and Canada Research Chair in Boron Pharmaceutical Chemistry

### Department of Classics

Battiloro, Ilara, B.A., M.A. (Naples); Ph.D. (Alberta); Assistant Professor

Cohen, Ivan, B.A. (Toronto); M.A. (McMaster); Ph.D. (Toronto); Professor

Robertson, Bruce, B.A. (Queen's); M.A. (British Columbia); Ph.D. (Toronto); Associate Professor and Head of the Department

vanderLeest, Hans, B.A. (Calgary); M.A. (London); Ph.D. (Toronto); Professor

### Department of Commerce/ Ron Joyce Centre for Business Studies

Berry, Paul, B.Comm. (Mount Allison); M.B.A. (Queen's); C.M.A.; Associate Professor and Head of Department

Farooqi, Nauman, B.Sc. (Pakistan); M.B.A., Ph.D. (St.Louis); Professor and Dean of Social Sciences

Holton, Judith A., B.A. (Dalhousie); Dip. Pub. Adm. (Prince Edward Island); M.A. (Royal Roads); Ph.D. (Northampton); Associate Professor

Hudson, Richard, B.A. (Bucknell); L.Ph. (St. Paul); M.P.A. (Carleton); M.A., Ph.D. (Ottawa); C.M.A.; Professor

Mesly, Olivier, B.A. (McGill), M.B.A. (Queen's), D.B.A. (Sherbrooke); Assistant Professor

Mullen, Jane, B.Sc., M.Sc., Ph.D. (Saint Mary's); Associate Professor

Polegato, Rosemary, B.Sc. (St. Francis Xavier); M.Sc. (Guelph); M.B.A., Ph.D. (Western Ontario); Professor

Pomare, Caroline, B.A. (Rennes II); M.Sc., Ph.D. (Louvain); BA (Heriot-Watt); Assistant Professor

Sianchuk, Peter, B.A., M.B.A. (McMaster); Associate Professor

White, Brent, B.A., B.B.A (UNB); M.Sc.M. (Queen's); Associate Professor

### Department of Economics

Anthonisen, Niels, B.A. (McGill); M.A., Ph.D. (Columbia); Professor

Brett, Craig, B.A. (Mount Allison); M.A., Ph.D. (British Columbia); Professor and Canada Research Chair in Canadian Public Policy

Law, Stephen, B.A. (British Columbia); M.A., Ph.D.(Toronto); Professor and Head of the Department

Strain, John Frank, B.A. (Prince Edward Island), M.A. (New Brunswick); Ph.D. (Manitoba); Professor

Van Beselaere, Carla, B.A., M.A. (Western Ontario); M.S., Ph.D. (Cal.Tech.); Associate Professor

## Department of English

Bamford, Karen, B.A. (Queen's); M.A., Ph.D. (Toronto); Professor

Beverley, Andrea, B.A. (Toronto); M.A. (Laval); Ph.D. (Montreal); Assistant Professor

Brown, Peter, B.A. (Simon Fraser), M.A. (East Anglia); Ph D. (McGill); Associate Professor

Craig, Terrence L., B.A., M.A. (Carleton); Ph.D. (Toronto); Professor

Lapp, Robert, B.A., M.A. (Toronto); Ph.D. (Dalhousie); Professor and Head of the Department

Nichols, Glen, B.A. (York); M.A., Ph.D. (Toronto); Associate Professor and Drama Program Director

Rogers, Janine, B.A., M.A., Ph.D. (McGill); Professor

Verduyn, Christl, B.A. (Trent); M.A., Ph.D. (Ottawa); Professor in English and Canadian Studies

Wills, Deborah, B.A (Trinity Western); M.A. (Carleton); Ph.D. (Alberta); Professor

## Department of Fine Arts

Carroll, Leanne, B.A., M.A. (Western); Ph.D. (Toronto); Assistant Professor

Down, Chris, B.F.A. (University College of the Cariboo); B.F.A. (Victoria); M.F.A. (Western Ontario); Associate Professor

Edson, Erik, B.F.A. (Queen's); M.F.A. (Windsor); Professor

Garnett, Leah, B.A.(Brown); B.F.A. (Nova Scotia College of Art and Design); M.F.A. (Guelph); Associate Professor

Holownia, Thaddeus, B.A. (Windsor); Professor and Head of the Department

Koval, Anne, B.A. (Queen's), M.A. (East Anglia); Ph.D. (London); Associate Professor

Kuiper, Adriana E., B.A. (Guelph); M.F.A. (Western Ontario); Professor

Ropson, Jerry, B.F.A. (Memorial); M.F.A. (Concordia); Associate Professor

## Department of Geography and Environment

Finkel, Zoe V., B.Sc. (Manitoba); M.Sc. (Dalhousie); Ph.D. (Rutgers); Professor

Fox, Michael J., B.A., M.A. (Western Ontario); Dip. Ed., Ph.D. (McGill); Professor

Kern, Leslie, B.Sc., M.A. (Toronto); Ph.D. (York); Assistant Professor

Kurek, Joshua, B.Sc.,(New York); M.Sc., Ph.D., (UNB); Assistant Professor

Lieske, David J., B.Sc. (Alberta); M.Sc. (Saskatchewan); Ph.D. (Calgary); Associate Professor

Ollerhead, Jeff, B.Sc. (Guelph); M.Sc. (Toronto); Ph.D. (Guelph); Professor, Director Mount Allison Coastal Wetlands Institute, Provost and Vice-President, Academic and Research

Reiffenstein, Tim, B.A. (McGill); M.A., Ph.D. (Simon Fraser); Associate Professor and Head of the Department

Walters, Bradley, B.Sc. (British Columbia); M.E.S. (Dalhousie); Ph.D. (Rutgers); Professor

## Department of History

Griffiths, Owen, B.A. (Victoria); M.A., Ph.D. (British Columbia); Associate Professor

Lane, Hannah, B.A. (Toronto); M.A., Ph.D. (New Brunswick); Associate Professor

Lord, Kathleen, B.A. (Concordia); M.A. (Concordia); Ph.D. (McGill); Associate Professor

Lundell, William, A.B. (Hope College); M.A. (Toronto); M.S.L. (P.I.M.S., Toronto); Ph.D. (Toronto); Associate Professor and Head of the Department

Naylor, Elaine, B.A. (Evergreen State); M.A., Ph.D. (York); Associate Professor

Torrance, David, B.A. (Washington and Lee), M.A. (Brown), Ph.D. (Queen's); Associate Professor

Wilson, William, B.A. (Trent); M.A., Ph.D. (McMaster); Associate Professor

## Department of Mathematics and Computer Science

Cruttwell, Geoffrey, B.Sc. (Waterloo); M.Sc, Ph.D. (Dalhousie); Assistant Professor

Hamilton, Mark D., B.Sc. (British Columbia); M.Sc., Ph.D. (Toronto); Assistant Professor

Hamilton-Wright, Andrew M., B.Sc., M.Sc. (Guelph); Ph.D. (Waterloo); Associate Professor

Irwin, Andrew J., B.Sc. (Toronto); M.Sc. (British Columbia); B.Ed. (Manitoba); Ph. D. (Queen's); Professor

Johnston, Nathaniel, B.A., M.Sc. Ph.D. (Guelph); Assistant Professor

Keliher, Liam T., B.Sc. (St. Francis Xavier); M.Sc. (McGill); M.Sc., Ph.D. (Queen's); Associate Professor

Messinger, Margaret-Ellen W., B.Sc. (Prince Edward Island); M.Sc., Ph.D. (Dalhousie); Associate Professor and Head of the Department

Pehlivan, Lerna, B.Sc., M.Sc. (Istanbul); Ph.D. (Southern California); Assistant Professor

Ricker, Laurie, B.Sc. (Mount Allison); M.Sc., Ph.D. (Queen's); Professor

Rosebrugh, Robert Douglas, B.Sc., M.Sc., (McMaster); Ph.D. (Dalhousie); Professor and Aviation Program Director

## Department of Modern Languages and Literatures

Beck, Lauren, B.A. (Waterloo); M.A., Ph.D. (Western Ontario); Associate Professor in Spanish

Bell, Kirsty, B.A. (Guelph); M.A., Ph.D. (Toronto); Associate Professor of French and Head of the Department

Fariña, Maritza, B.A., B.Ed. (Catholic University of Valparaiso - Chile); Instructor in Spanish

Ionescu, Christina, B.A., M.A., Ph.D (Toronto); Associate Professor of French

Lee, Mark, B.A. (Memorial); M.A. (Johns Hopkins); Ph.D. (Emory); Professor of French

Martínez, Juan Carlos, B.A., B.Ed. (Catholic University of Valparaiso-Chile); M.A. (Carleton), Ph.D. (Toronto); Associate Professor of Spanish

Narayana, Valérie, B.Sc., M.A. (Alberta); Ph.D. (British Columbia); Associate Professor of French

Oe, Miyako, B.A., M.A. (Ochanomizu Women's University-Tokyo); Instructor in Japanese

Rogosin, Marie-Claude, B.F.A., B.B.A. (Paris); Instructor in French

Schellenberg, Renata, B.A. (Saskatchewan); M.A., Ph.D. (Toronto); Associate Professor of German

## Department of Music

Kalyn, James, B.Mus; M.M.; D.M.A. (Rochester); Professor

Lalonde, Amanda, B.Mus (McGill); Ph.D.(Cornell); Assistant Professor

Martin, Gayle, B.Mus. (State University of New York); M.Mus. (McGill); D.M. (Alberta); Associate Professor

Morse, Kevin, B.Mus. (Mount Allison); Associate Professor

Pearse, Doreen Linda, B.Mus. (McGill); M.Mus. (Schola Cantorum Basiliensis); Associate Professor

Rogosin, David, B.Mus., M.Mus. (Montréal); D.M.A. (British Columbia); Professor

Runge, Stephen, B.Mus. (Victoria); M.Mus., Ph.D. (Montreal); Associate Professor and Head of the Department

St. Pierre, Vicki, B.Mus., M.Mus., (Western); Ph.D. (Toronto); Assistant Professor

Tucker, Gary, B.Mus. (Mount Allison); M.A., Ph.D. (Western Ontario); Associate Professor

Wells, Elizabeth, B.Mus. (Toronto); M.A., Ph.D. (Rochester); Professor and Dean of Arts

## Department of Philosophy

Bzovy, Justin, B.A. (Winnipeg); M.A. (Manitoba); Lecturer

Dryden, Jane, B.A. (Toronto); M.A., Ph.D. (Fordham); Associate Professor and Head of the Department

Fedyk, Mark, B.A. (Queen's); M.A., Ph.D. (Cornell); Associate Professor

Majithia, Roopen, B.A. (Beloit); M.A. (Northern Illinois); Ph.D. (McMaster); Associate Professor

Moser, Robbie, B.A. (StFX); M.A. (Dalhousie); Assistant Professor

## Department of Physics

Ahmady, Mohammad Reza, B.Sc. (Shiraz); M.Sc., Ph.D. (Western Ontario); Professor and Head of the Department

Brüning, Ralf, Vordiplom (Kiel); M.Sc., Ph.D. (McGill); Professor

Fleming, David E.B., B.Sc. (Mount Allison); M.Sc., Ph.D. (McMaster); Professor, Canada Research Chair in Medical Physics

Hornidge, David, B.Sc., M.Sc., Ph.D. (Saskatchewan); Professor

Lovekin, Catherine, B.Sc. (McMaster); M.Sc., Ph.D. (Saint Mary's); Assistant Professor

## Department of Politics and International Relations

Campbell, Robert M., B.A. (Trent); M.A. (Toronto); Ph.D. (London School of Economics); Professor and University President

Devine, James, B.A., M.A., Ph.D. (McGill); Associate Professor and Head of the Department

Ferrell, Jason, B.A. (Guilford); M.A. (Tulane); Ph.D. (McGill); Assistant Professor

Hunt, Wayne, B.A. (Laurentian); M.Sc. (Econ.) (London School of Economics); Ph.D. (Toronto); Professor

Levesque, Mario, B.A., M.A. (Western); PhD (McMaster); Assistant Professor

Michaelis, Loralea, B.I.S.(Waterloo); M.A., Ph.D. (Toronto); Associate Professor

Thomas, David, B.C.M (Victoria); B.A. (Calgary); M.A.(Saskatchewan); Ph.D. (Queen's); Associate Professor, Coordinator of the International Relations Program

## Department of Psychology

Azar, Rima, B.Sc., M.Sc., Ph.D. (Montreal); Associate Professor

Belke, Terry W., B.A. (Alberta); M.A., Ph.D. (Harvard); Professor

Claxton-Oldfield, Stephen, B.A. (Queen's); M.A. (Wilfrid Laurier); Ph.D. (Exeter); Associate Professor

Desmarais, Genevieve, B.A. (Concordia); M.A., Ph.D. (Waterloo); Associate Professor

Douglas, Danielle, B.A. (Concordia); M.A. (Toronto); Lecturer

Garon, Nancy, B.A., M.A. (New Brunswick); Ph.D. (Dalhousie); Associate Professor

Gould, Odette, B.A. (Moncton); M.A., Ph.D. (Victoria); Professor

Hamilton, Lisa Dawn, B.A. (Simon Fraser); M.A., Ph.D. (Texas); Associate Professor

Ouellette, Gene P., B.Sc. (Dalhousie); M.Sc. (McGill), Ph.D. (Carleton); Associate Professor and Head of Department

Tomes, Jennifer, B.A., M.A., Ph.D. (Western Ontario); Associate Professor

Wasylkiw, Louise, B.A. (Nipissing); M.A., Ph.D. (Queen's); Professor

## Department of Religious Studies

Andrews, Susan, B.A. (Mount Allison); M.A. (McMaster); M.Phil., Ph.D. (Columbia); Assistant Professor

Black, Fiona, B.A., M.A. (McGill); Ph.D. (Sheffield); Associate Professor

Clayton, Barbra, B.A., M.A. (Calgary); Ph.D. (McGill); Associate Professor

Wilson, Andrew, B.A. (Monash); B.Theol. (Melbourne College of Divinity); Ph.D. (Sheffield); Associate Professor and Head of the Department

## Department of Sociology

Antonelli, Fabrizio, B.A., B.Ed., M.A. (Toronto); Associate Professor

Poteet, Morgan, B.A., M.A., Ph.D. (York); Associate Professor

Steuter, Erin, B.J. (University of King's College); B.A., M.A. (Dalhousie); Ph.D. (York); Professor and Head of the Department

Whynacht, Ardath, B.A. (Kings); M.A. (Dalhousie); Lecturer

## Interdisciplinary Programs

Aviation: Rosebrugh, Robert Douglas, B.Sc., M.Sc., (McMaster); Ph.D. (Dalhousie); Professor and Program Co-ordinator

Drama: Nichols, Glen, B.A. (York); M.A., Ph.D. (Toronto); Associate Professor and Program Director

Drama: Quint, Cordula, B.A. (Lethbridge); M.A. (British Columbia); Ph.D. (Toronto); Associate Professor

Women's and Gender Studies: Kern, Leslie, B.Sc., M.A. (Toronto); Ph.D. (York); Assistant Professor and Program Director

Women's and Gender Studies: Alexopoulos, Tasia, B.A. (Queen's), M.A. (Toronto); Ph.D. (York); Wallace McCain Post-doctoral Fellow in Women's and Gender Studies

## 8.10.2 Librarians

Cannon, Anita, B.A. (York); M.L.S. (Toronto); Librarian

LePage, Anne, B.Mus. (Mount Allison); M.Mus. (British Columbia); M.L.I.S. (British Columbia); Associate Librarian

Lilburn, Jeff, B.A. (McGill); M.A. (Western Ontario); M.L.I.S. (McGill); Associate Librarian

Mawhinney, David, B.A. (McGill); M.L.I.S. (Toronto); Associate Librarian

Millar, Elizabeth, B.A. (Trent); M.A. (Wilfrid Laurier); M.L.I.S. (Dalhousie); Associate Librarian

Snyder, Laura, B.Mus.Ed. (Ithaca); M.L.S. (Louisiana State); Librarian

Truitt, Marc, B.A. (Yale); M.A., (Stanford); M.S. (Columbia); University Librarian

# 9 LECTURESHIPS, TRUSTS AND FELLOWSHIPS; ENDOWED CHAIRS; FACULTY AWARDS

## 9.1 LECTURESHIPS, TRUSTS AND FELLOWSHIPS

### 9.1.1 The Josiah Wood Lectureship

This lectureship was founded and endowed in the autumn of 1925 by the Hon. Josiah Wood, D.C.L., a member of the first Mount Allison class.

The Wood lecturers have included Sir George E. Foster, Sir Robert Falconer, Dr. T.R. Glover, Rev. Lloyd Douglas, James Irvine, Rev. H.J. Cody, Dr. Alfred Noyes, Rev. Richard Roberts, Frank Parker Day, Sir Robert Boothby, Hon. Vincent Massey, Lord Bridges, Dr. Wilder Penfield, Dr. G.P. Grant, the Hon. Robert Stanfield, Dr. John Kenneth Galbraith, the Hon. Dr. Flora MacDonald, and Lester Brown.

### 9.1.2 The Bronfman Lecture Series

This lecture series was established in 1979, through the generosity of the Samuel and Saidye Bronfman Foundation. With the endowment of a fund to provide for the invitation to campus of a distinguished lecturer, the Bronfman Lecture series allows undergraduate researchers at the University the unique experience of meeting with noted scholars.

Distinguished lecturers have included: Professor Maurice Wilkins, FRS, winner of the Nobel Prize for his discovery of DNA, Dr. Brian Josephson, FRS, winner of the Nobel Prize for his work with the Josephson Junction, Prof. Gerhard Herzberg, FRS, winner of the Nobel Prize for his study of interplanetary matter in space, Sir Andrew Huxley, O.M., FRS, for his studies in Physiology and Medicine and Dr. James M. Buchanan for his studies in the Theory of Economics and Political Decision Making.

### 9.1.3 The Crake Lectureship in Classical Studies

The Crake Lecture was established in 1978 through the generosity of Dr. J.E.A. Crake, Professor Emeritus of Classics at Mount Allison University, and of the Crake Foundation, thus enabling the Department of Classics, in association with the Crake Foundation, to invite annually a distinguished scholar to give a public lecture on a subject drawn from the cultures of Greece and Rome.

Since the inception of the series the following distinguished academics have delivered the lectures: Professor James Russell, University of British Columbia; Professor Amanda Claridge, Princeton University; Dr. Rupert Bruce-Mitford, British Museum; Professor Malcolm McGregor, University of British Columbia; Professor Geoffrey Kirk, Cambridge University; Professor John Boardman, Oxford University; Professor T.D. Barnes, University of Toronto; Professor Peter Green, University of Texas; Professor C.W.J. Eliot, Mount Allison University; Professor Lillian Feder, City University of New York; Sir Kenneth Dover, Oxford University; Professor Keith Hopkins, Cambridge University; Professor Barry Cunliffe, Oxford University; Professor Elaine Fantham, Princeton University; Professor Oliver Taplin, Oxford University; Professor T.P. Wiseman, University of Exeter; Professor G.P. Goold, Yale University; Professor Susan Treggiari, Stanford University; Professor Eugene N. Borza, Pennsylvania State University; Professor Nial Rudd, University of Bristol; Andrew Wallace-Hadrill, British School at Rome; Professor Erich S. Gruen, University of California at Berkeley; Professor Josiah Ober, Princeton University; Professor Eleanor Winsor Leach, Indiana University; Professor Anne Carson, McGill University; Professor Virginia Hunter, York University; Dr. Ian Morris, Stanford University; Professor Edward Champlin, Princeton University; Professor Susan Rotroff, Washington University, St. Louis; Professor Michael C. J. Putnam, Brown University; Professor Gregory Crane, Tufts University; Professor Keith Bradley, Notre Dame University; and Dr. Helen King, University of Reading.

### 9.1.4 The Wilford B. Jonah Lecture Series

The Wilford B. Jonah Lecture Series was established in 2000 through the generosity of Wilford B. Jonah, a member of the Class of 1936. The endowment created is intended to provide funds to enable the University to bring to campus persons of high international stature and prominence to give a public lecture and where possible to take part in a forum of discussion with students.

Distinguished lecturers have included: Mordecai Richler, author and essayist; Dr. David Suzuki, scientist, broadcaster and environmental advocate; Dr. Lawrence Krauss, Case Western Reserve University, world renowned physicist and author; Steve Wozniak, co-founder Apple Computers; and Richard Florida, academic and author.

### 9.1.5 Crake Doctoral Fellowship in Classics

This fellowship was established by the Crake Foundation in 1984 in memory of Dr. J.E.A. Crake. It is open to Canadian citizens and permanent residents who at the time of taking up the fellowship have completed all course and residential requirements for the Doctorate in Classics and who can reasonably be expected to finish the Doctorate during the year of tenure. The holder is asked to teach the equivalent of six credits and give a public lecture.

Since its inception, the fellowship has been held by William G. Kerr, Princeton University; Johannes vanderLeest, University of Toronto; Sarah M. Bonnycastle, University of Michigan; Carol Gordon, McMaster University; Riemer Faber, University of Toronto; Thomas Goud, University of Toronto; Frances A. Skoczylas, University of Toronto; Christopher Marshall, University of Edinburgh; Angela Kalinowski, University of Toronto; Rebecca Nagel, Harvard University; Gordon Nixon, University of Toronto; John Harris, University of Illinois; Paul Chenier, Stanford University; Leslie Shumka, University of Victoria; Kelly MacFarlane, University of Alberta; Myles McCallum, State University of New York at Buffalo; Brad Levett, University of Washington; Carol King, Brown University; Rachel Levine, University of Toronto; Andrew Faulkner, Oxford University; Aven McMaster, University of Toronto; Allison Surtees, Johns Hopkins University; Milo Nikolic, University of Victoria; and Jody Gordon, University of Cincinnati.

### 9.1.6 The Ebbutt Memorial Trust for Religious Studies

The Trust was established by the Rev. Arthur J. Ebbutt, B.A., B.D., Th.D., D.D., L.L.D., in memory of his wife Helen MacNaughton Ebbutt. Dr. Ebbutt taught at Mount Allison University from 1947 to 1971, serving as Dean of the Faculty of Arts from 1954 to 1963. Under his leadership, a Department of Religion was established in 1960, the name being changed in 1968 to the Department of Religious Studies.

The Trust is intended to promote a standard of excellence within the Department of Religious Studies by supporting activities which augment those financed through the regular budget. These include provision of scholarships for students in Religious Studies, acquisition of new Library resources in Religious Studies, and sponsoring lectures by reputable scholars in Biblical and Theological Studies.

Ebbutt Lectures have been delivered by Malcolm Miller, Chartres Cathedral (1982); Dr. William Klassen, Inter-Faith Academy of Peace, Jerusalem (1985); Dr. Douglas J. Hall of McGill University (1988); Sir Owen Chadwick of Cambridge University (1989); Dr. Willem Saayman of the University of South Africa (1991); Dr. Eileen Schuller of McMaster University (1992); Dr. William Klempa of Presbyterian College, Montreal; Dr. John S. Moir of the University of Toronto (1994); Prof. A. Üner Turgay, Institute of Islamic Studies, McGill University (1996); Dr. Victor Sogen Hori of McGill University (2000); and Dr. Erin Runions of Pomona College (2006).

## 9.2 ENDOWED CHAIRS

The University is fortunate in the number of endowed professorships that have been established, and is very grateful to those who, by generous gift or bequest, have made them possible. The endowment of a Chair is a highly valued means of supporting the University and a particularly wise investment in higher education.

Information about the endowed chairs is of historical significance, and of general interest, too. Some of it is summarized here.

### 9.2.1 Clement Chandler Avard and Florence Sybil Avard Chair in French Language

The endowment for this Chair was provided by a bequest from the estate of Clement Chandler Avard, 1875-1956. Born in Point de Bute, he graduated from the New Brunswick Teachers' College and Mount Allison, B.A., 1898. He was called to the Bar in New Brunswick in 1901 but did not practice. He established the Sackville Tribune in 1902 and the Tribune Printing Company in 1906, and continued in control of these companies until 1947. During his lifetime he served on the Board of Directors of several Maritime Companies.

He had a deep interest in education. For fifteen years he served as Chairman of the Sackville School Board. He was a member of the Board of Regents of Mount Allison for thirty-four years, and also served as Chairman. In 1948 he was honoured by Mount Allison University with a Doctor of Literature Degree.

The Chair, established in 1956, has been held by Allan MacBeth, B.A., M.A., 1956-1965; J. Gordon Andison, B.A., M.A., Ph.D., 1965-1970; and Peter Edwards, B.A., M.A., Ph.D., 2005-2007.

### 9.2.2 The Walter B. Cowan Chair in Religious Studies

The Walter B. Cowan Chair in Religious Studies is endowed with a bequest from Walter B. Cowan, a distinguished lawyer and prominent United Church layman. Charles H.H. Scobie, S.T.M., M.A., B.D., Ph.D., D.D., was appointed the first Cowan Professor of Religious Studies in 1985.

### 9.2.3 The Edgar and Dorothy Davidson Chair in Canadian Studies

Believed to be the first of its kind in Canada, the Edgar and Dorothy Davidson Chair of Canadian Studies was established in 1969. The Chair has been most generously endowed and is named in honour of Dr. Edgar Davidson and Dr. Dorothy Davidson of Ottawa.

Mr. and Mrs. Davidson have over the years gathered together a rich collection of Canadiana books, imprints and manuscripts of great rarity and value and many fine examples of early Canadian glass, of Canadian furniture of the 18th Century, and of Canadian painting and sculpture of the 19th and 20th Centuries. In making the gift of this superb collection to Mount Allison, the donors stated that:

> ...we are prompted to make this gift in recognition of the great contribution made by the men and women of the Maritimes toward our national life from its early beginnings to the present time. We furthermore have selected a New Brunswick university because we believe that in this province more is done toward solving the crucial problem of achieving a bi-cultural life than anywhere else in Canada.
>
> ... We have been impressed with the splendid facilities and aims of Mount Allison and with what is done there for young people, not merely from an academic point of view but also from a cultural one.

The following scholars have held the chair since establishment: George F.G. Stanley, O.C., B.A., B.Litt., M.A., D.Phil., D-es-L., D.Litt., LL.D., D.C.L., F.R. Hist.S., F.R.S.C., 1969-1975; Douglas Grant Lochhead, B.A., M.A., B.L.S., D.Litt, LL.D., F.R.S.C., 1975-1987; Lawrence D. McCann, B.A., M.A., Ph.D., 1987-1992; and William Cross, B.A., M.P.S., J.D., M.A., Ph.D., 2001-2005; Frank Strain, B.A., M.A., Ph.D., 2005-2010; and Christl Verduyn, B.A., M.A., Ph.D., 2010-2020.

### 9.2.4 Fred C. Manning Chair in Commerce

This Chair is named in honour of the late Fred C. Manning, an outstanding Nova Scotian industrialist and distinguished Allisonian whose generous bequest to the University made possible its establishment.

Dr. Manning was born in Falmouth, Nova Scotia and attended Mount Allison Academy 1909-1910. When presented for the honorary degree at the May Convocation at Mount Allison in 1955 it was stated:

> ... he is President and controlling owner of multimillion dollar businesses in the Maritimes, the Canadian West, and in far off Venezuela. Director of a score or more companies, Fred Manning's record stands as an inspiration and challenge to every ambitious young student in the Commerce Course, and effectively refutes the statement that there are no opportunities in the Maritimes.

Dr. Manning contributed to Mount Allison the cost of the Physics and Engineering Building, which is dedicated "to the advancement of Scientific knowledge." Mrs. Manning contributed funds for decorating and furnishing the Manning Room in the Chapel, as "an expression of her deep interest and concern for the religious life of the University Community."

Professor Dan C. Patridge, B.Sc., M.B.A., was the Fred C. Manning Professor of Commerce from 1971 to 1996.

### 9.2.5 The Hart Almerrin Massey Chair in Philosophy

The following scholars have held the chair since establishment: Roy Balmer Liddy, B.D., Ph.D., 1915-1931; Charles Arthur Krug, M.A., B.D., 1931-1947; Clayton Amos Baxter, M.A., Ph.D., 1947-1965; and Cyril Francis Poole, B.A., M.A., Ph.D., 1965-1977; Paul Bogaard, B.A., M.A., Ph.D., 2006-2010.

### 9.2.6 The Pickard-Bell Chair in Music

This Chair was established in 1966 with a generous endowment from the estate of Winthrop Pickard Bell, B.A., M.A., Ph.D. This very substantial bequest to Mount Allison was in memory of Dr. Bell's mother, Mary Emerancy Pickard Bell, the first teacher of piano in the Conservatory of Music, 1873-1882. (In 1965 Dr. Ralph P. Bell, brother of Dr. Winthrop Bell, donated the Mount Allison Chapel Organ, also in memory of his mother). Mary Emerancy Pickard Bell graduated from the Mount Allison Ladies' College in 1866 with a degree of Mistress of Liberal Arts. From 1866-1869 she taught Literature, Mathematics and Calisthenics at the Ladies College, and in 1873 she joined the Faculty of the Conservatory of Music.

Winthrop P. Bell was one of Mount Allison's most illustrious and loyal graduates. An outstanding scholar, he graduated with honours in Mathematics, Bachelor of Arts and Master of Arts degree. He also earned an M.A. from Harvard and a Ph.D. from Gottigen, Germany. He lectured at the University of Toronto and at Harvard University, eventually returning to Nova Scotia to engage in business and pursue scholarly activities.

A loyal Allisonian and churchman, he annually supported the financial program of the university and encouraged classmates and friends to rally around their "alma mater." It is for one of his earliest works, composed when a student at Mount Allison, that he is best remembered by all Allisonians, for he wrote the lyrics of the "Alma Mater" song. Since 1906 this song has been sung by students at the University and by Allisonians throughout the world. Dr. Bell served on the Board of Regents from 1948-1951. He died in 1965.

In 1965 Mount Allison received Dr. Winthrop Bell's entire library, more than half of which is a very valuable collection of Acadiana.

The following scholars have held the chair since establishment: George A. Procter, B.A., M.Mus., Ph.D., 1967-1974; and Nancy F. Vogan, B.A., M.Mus., Ph.D., 2005-2014; and Elizabeth Wells, M.Mus. Ph.D. 2013-2018.

### 9.2.7 The Reverend William Purvis Chair in English Literature

This Chair was established in 1969 in honour of the Reverend Mr. Purvis by a generous endowment from the estate of his son, Mr. William Sterling Purvis, a retired merchant of Warwick, Bermuda. Mr. William S. Purvis was a member of the class of 1905; his father served in pastorates in the Nova Scotia Conference of the United Church of Canada. The following scholars have held the chair since establishment: Arthur Motyer, B.A., M.A., 1970-1994; Carrie MacMillan, B.A., M.A., Ph.D., 2005-2008; Robert Lapp, B.A., M.A., Ph.D., 2009-2014, and Janine Rogers, B.A., M.A. PhD., 2015-2020.

### 9.2.8 The Obed Edmund Smith Chair in Physics

Initial funding of this Chair came from a bequest of Obed Edmund Smith in 1938. The following scholars have held the chair since establishment: Donald Gordon MacGregor, B.A., M.A., 1938-1964; William John Noble, B.Sc., M.Sc., M.A., Ph.D., 1972-1979; James Horace Matthews, B.Sc., M.Sc., Ph.D., 1984-1994; and Ralf Brüning, M.Sc., Ph.D., 2004-2014.

### 9.2.9 The Obed Edmund Smith Chair in Mathematics

Initial funding for this Chair was provided from the estate of Obed Edmund Smith in 1938. The following scholars have held the chair since establishment: William Hayward McEwen, M.Sc., M.A., Ph.D., 1938-1946; William Stanley Hayes Crawford, B.A., M.A., Ph.D., D.Sc., 1946-1982; Michael Edelstein, M.Sc., 1984-1986; Elmer Melvin Tory, B.Sc., Ph.D., 1989-1996; Margaret Beattie, B.Sc., M.Sc., Ph.D., 2006-2010; and Robert Rosebrugh, B.Sc., M.Sc., Ph.D., 2010-2015.

### 9.2.10 The Stiles-Bennett Chair in History

This Chair was endowed in 1943 with a generous gift from Viscount R.B. Bennett. The following scholars have held the chair since establishment: George F.G. Stanley, O.C., C.St.J., B.A., M.A., B.Litt., D.Phil., D-es-L., D.Lit., D.C.L., F.R.Hist.S. , F.R.S.C. , 1943-1947; Donald Grady Kerr, B.A., Ph.D., 1947-1958; Philip Anthony Lockwood, M.A., 1959-1964; and William Godfrey, B.A., M.A., Ph.D., 2003-2006.

### 9.2.11 The Josiah Wood Chair in Classics

In 1866, Josiah Wood established an endowment of $15,000 for this chair, and Alfred Smith was appointed the first Wood Professor of Classics. An additional contribution to the endowment was made in 1934. The following scholars have held the chair since establishment: Alfred Smith, 1886-1917; C.B. Delano, 1917-1919; J.W. Cohoon, 1919-1946; J.E.A. Crake, 1947-1977; and C.W.J. Eliot, 1978-1985.

### 9.2.12 The Charles and Joseph Allison Chair of English Language and Literature

Initial funding for this Chair was provided from Joseph Allison in 1921 and was later combined with funds from Charles F. Allison. The following scholars have held the chair since establishment: William Tweedie, 1921-1936; Henry Gundy, 1943-1947; Lloyd Duchemin, 1947-1974; Michael Thorpe, 1990-1997; and Karen Bamford, 2006-2011; and Deborah Wills, Ph. D. 2011 - 2016.

## 9.3 FACULTY AWARDS

### 9.3.1 The Herbert and Leota Tucker Award

The Tucker award was endowed in 1983 by members of the Tucker family to perpetuate the memory of their parents, the Reverend Herbert Tucker, B.A., M.A., M.Ed., Ph.D., one time Joseph L. Black Professor of Economics and Sociology and Head of the Department, and former Dean of the Faculty of Arts and University Registrar, and his wife, Leota

Tucker. The annual prize recognizes outstanding effectiveness in the university classroom as well as broader influence within the university community and the wider constituency it serves. The recipient is expected to deliver a public lecture on a subject of his or her own choice. The award was first presented in 1984 to Alexander Boyd Fancy, B.A., M.A., Professor of French; in 1985 to Evron Norinne Kinsman, B.Mus., M.A., Professor of Music; in 1986 to Kathryn Eryl Hamer, B.A., M.A., Ph.D., Professor of French; in 1987 to Clifford Marsden Allen, B.Sc., M.Sc., Professor of Geology; in 1988 to Robert Lewis Hawkes, B.Sc., B.Ed., M.Sc., Ph.D., Professor of Physics; in 1989 to David Pierce Beatty, B.A., M.A., Ph.D., Professor of History; in 1990 to Carrie MacMillan, B.A, M.A., Ph.D., Professor of English; in 1991 to John T. Macfarlane, B.A., M.Sc., Professor of Physics; in 1992 to B. Arthur Miller, B.A., M.A., Ph.D., Professor of Mathematics and Computer Science; in 1993 to Ross Barclay, B.Sc., M.Sc., Ph.D., Professor of Chemistry; in 1994 to Roland Crooks, B.A., M.A., Associate Professor of Psychology; in 1995 to Judith A. Weiss, B.A., M.A., Ph.D., Professor of Spanish; in 1996 to Robert G. Thompson, B.Sc., M.Sc., Ph.D., Professor of Biology; in 1997 to Charles Hugh Hope Scobie, M.A., B.D., Ph.D., D.D., Cowan Professor of Religious Studies; in 1998 to Vincent Conrad Reinsborough, B.A., S.T.B., M.A., Ph.D., Professor of Chemistry; in 1999 to Roger Calkins, B.A., M.A., Ph.D., Professor of English; in 2000 to Robert Summerby-Murray, B.A., M.A., Ph.D., A.T.C.L., Assistant Professor of Geography; in 2001 to Dennis Tokaryk, B.Sc., M.Sc., Ph.D., Assistant Professor of Physics; in 2002 to Deborah Wills, B.A., M.A., Ph.D., Associate Professor of English; in 2003 to Robert Lapp, B.A., M.A., Ph.D., Associate Professor in English; in 2004 to Ivan Cohen, B.A., M.A., Ph.D., Associate Professor of Classics; in 2005 Nancy F. Vogan, B.A., M.Mus., Ph.D., Professor of Music; in 2006 to Erin Steuter, B.A., M.A., Ph.D., Associate Professor of Sociology; in 2007 to Louise Wasylkiw, B.A., M.A., Ph.D., Associate Professor of Psychology; in 2008 to Elizabeth Wells, B. Mus., M.A., Ph.D., Associate Professor of Music; in 2009 to Craig Brett, B.A., M.A., Ph.D., Professor of Economics; in 2010 to Bruce Robertson, B.A., M.A., Ph.D., Associate Professor of Classics; in 2011 to Colin Laroque, B.Sc., M.Sc., Ph.D., Associate Professor of Geography and Environment; in 2012 to Andrew Nurse, B.A., M.A. Ph.D. Associate Professor in Canadian Studies; in 2013 to Fiona Black, B.A. M.A. Ph.D., Association Professor in Religious Studies, in 2014 to Christl Verduyn, B.A. M.A. Ph.D., Professor of English and Canadian Studies, Director of the Centre for Canadian Studies, and in 2015 Amanda Cockshutt, B.Sc., PhD. Associate Professor and Department Head in Chemistry and Biochemistry.

## 9.3.2 Imasco Paul Paré Medal and Awards of Excellence

In 1995 Paul Paré Medal to Jean-Guy Godin; Paul Paré Excellence Awards to Felix Baerlocher, Pat Baker, Peter Edwards, Andy Gann, Thaddeus Holownia, and Robert Ireland.

In 1996 Paul Paré Medal to Felix Baerlocher; Paul Paré Excellence Award to Raymond Blake, Edmund Dawe, Basil Favaro, Andy Gann, Jean-Guy Godin, Thaddeus Holownia, Jack Stewart, Frank Strain, and David Torrance.

In 1997 Paul Paré Medal to Frank Strain; Paul Paré Excellence Award to Catharine Baker, Margaret Beattie, Penny Bryden, Peter Edwards, Jean-Guy Godin, Eldon Hay, Irena Kaczmarska-Ehrman, and Alexander Wilson.

In 1998 Paul Paré Medal to Thaddeus Holownia; Paul Paré Excellence Award to Felix Baerlocher, Penny Bryden, Terrence Craig, Jean-Guy Godin, Robert Hawkes, David Mossman, Jeff Ollerhead, and Frank Strain.

In 1999 Paul Paré Medal to Robert Hawkes; Paul Paré Excellence Award to Felix Baerlocher, Margaret Beattie, Raymond Blake, Penny Bryden, Doug Campbell, Peter Edwards, Rick Langler, Carrie MacMillan, and Rosemary Polegato.

In 2000 Paul Paré Medal to Felix Baerlocher; Paul Paré Excellence Award to Doug Campbell, Bill Cross, Peter Edwards, Thaddeus Holownia, Irena Kaczmarska, James Stark, and Stephen Westcott.

In 2001 Paul Paré Medal to Peter Edwards, Stephen Westcott; Paul Paré Excellence Award to Felix Baerlocher, Karen Bamford, Margaret Beattie, Bill Cross, Edmund Dawe, Robert Hawkes, Thaddeus Holownia, and Richard Langler.

In 2002 Paul Paré Medal to Felix Baerlocher; Paul Paré Excellence Award to Monika Boehringer, Ralf Brüning, Bill Cross, Douglas Campbell, Peter Edwards, Richard Langler, Jeff Ollerhead, and Stephen Westcott.

In 2003 Paul Paré Medal to William Cross, Rick Langler; Paul Paré Excellence Award to Robert Summerby-Murray, Stephen Westcott, Penny Bryden, Jeffrey Burns, William Godfrey, and Jack Stewart.

In 2004 Paul Paré Medal to Alex Fancy, Ralf Brüning; Paul Paré Excellence Award to Karen Bamford, Mark Blagrave, Jeff Ollerhead, Robert Rosebrugh, Nancy Vogan, Brad Walters, Stephen Westcott, and Stacey Wetmore.

In 2005 Paul Paré Medal to Jeffrey Burns, Douglas Campbell; Paul Paré Excellence Award to Felix Baerlocher, Nauman Farooqi, David Fleming, Thaddeus Holownia, Irena Kaczmarska, Stephen Law, Helen Pridmore, and Steve Westcott.

In 2006 Paul Paré Medal to Felix Baerlocher, Robert Hawkes, and Thaddeus Holownia; Paul Paré Excellence Award to Terry Belke, Glen Briand, Suzie Currie, Erik Edson, Nauman Farooqi, William Godfrey, Odette Gould, Colin Laroque, Jennifer Macklem, Laurie Ricker, Erin Steuter, and Brad Walters.

In 2007 Paul Paré Medal to Irena Kaczmarska; Paul Paré Excellence Award to Mohammad Ahmady, Craig Brett, David Fleming, Colin Laroque, Gayle Martin and Stephen Westcott.

In 2008 Paul Paré Medal to Catharine Baker; Paul Paré Excellence Awards to Michael Fox, Thaddeus Holownia, David Hornidge, Jane Mullen, Vett Lloyd, Felix Baerlocher, and Stephen Westcott.

In 2009 Paul Paré Medal to Craig Brett; Paul Paré Excellence Awards to Monika Boehringer, Suzie Currie, Zoe Finkel, Diana Hamilton, and Brad Walters.

In 2010 Paul Paré Medal to Suzie Currie; Paul Paré Excellence Awards to Fiona Black, Khashayar Ghandi, Odette Gould, Andrew Irwin, Colin Laroque, Bruce Robertson, Stephen Runge, Erin Steuter, and Deborah Wills.

In 2011 Paul Paré Medal to Stephen Westcott; Paul Paré Excellence Awards to Felix Baerolocher, Zoe Finkel, Gina Grandy, Thaddeus Holownia, David Hornidge, Mark Lee, Andrew Nurse, Gene Ouellette, and Elizabeth Wells.

In 2012 Paul Paré Medal to Christl Verduyn; Paul Paré Excellence Awards to Glen Briand, Ralf Brüning, David Fleming, Jennifer Harris, Renata Schellenberg.

In 2013 Paul Paré Medal to David Hornidge; Paul Paré Excellence Awards to Monkia Boehringer, Khashayar Ghandi, Andrew Hamilton

Wright, Thaddeus Holownia, Matt Litvak, Helen Pridmore, Helen Pridmore, David Rogosin, Brad Walters, Stephen Westcott

In 2014 Paul Paré Excellence Awards to Lauren Beck, Andrew Irwin, and Janine Rogers

In 2015 the Paul Paré Medal was awarded to Elizabeth Wells, and Paul Paré Excellence Awards to Mohammad Ahmady, Kirsty Bell, Christina Ionescu, Irena Kaczmarska, and Gene Ouellette.

Mount Allison
UNIVERSITY

# ACADEMIC CALENDAR
# 2016-2017 edition

## Part II: Academic Regulations

# 10 ACADEMIC REGULATIONS

**The following regulations apply to students in all undergraduate degree or certificate programs. Students are responsible for knowing and adhering to these regulations as well as to the regulations pertaining to their particular programs.**

## 10.1 COMMUNICATION

a) Email is an official means of communication for academic and administrative purposes at Mount Allison.

b) An email address assigned to a student by the university is the only email address used by Mount Allison for communication with students for academic and administrative purposes.

c) Students are responsible for frequently checking their Mount Allison email address to remain current with administrative and academic notifications.

## 10.2 COURSES OF INSTRUCTION

a) Courses offered by the University are listed and described, by program, in Section 12 of this Calendar.

b) Courses may be taught using a number of different formats.

c) The regulations outlined in Section 10 of this Calendar normally apply to all courses offered by the university.

d) In the case of intensive, experiential, or field courses, however, variations in the registration and withdrawal deadlines, the scheduling of classes, and the deadlines for completion of course work may be necessary. In these cases all variations will be stated clearly on the course outline and will be approved by an Academic Dean before the course is approved and available for registration.

## 10.3 REGISTRATION

### 10.3.1 Registration Procedures (Adding Courses)

a) Students are responsible for their registration.

b) Normally courses are added, changed, or dropped by the student through CONNECT.

c) Within 24 hours of making a change students should confirm their registration on MY CLASS SCHEDULE. If it does not reflect the addition, change, or deletion, or if students have problems viewing their schedule through CONNECT, they should contact the Registrar's Office.

d) Some academic departments require pre-registration of returning students for courses in their departments. For further information, please consult department heads.

### 10.3.2 Registration Deadline

a) All full and part-time students must register each year according to procedures and time frames supplied by the Registrar's Office. Failure to do so results in a financial penalty and possible denial of registration in certain courses.

b) In September and in January no students may register after the second Friday of each term unless approved by an Academic Dean on presentation of a medical certificate or on compassionate grounds.

c) In May no students may register after the first Friday of the term unless approved by an Academic Dean on presentation of a medical certificate or on compassionate grounds.

d) For specific intensive study courses the Registrar's Office will designate the deadline for registration.

e) Attending a course while not on the class list does not constitute registration and is not a basis for approval of a request for late registration.

f) Within one week after the date for changes in registration at the beginning of each term, instructors will verify the list of students registered in the course.

g) Students must be properly registered in a course to receive a grade on any assignment or test.

### 10.3.3 Registration Deadline (Correspondence Courses)

a) Correspondence courses allow students to acquire credits toward a degree in a flexible, self-paced manner and are offered during the Fall, Winter, and Spring/Summer terms.

b) Any student registering for a correspondence course must follow the registration deadline specified in Regulation 10.3.2.

c) Any correspondence course must be completed by the end of the academic term in which it was started.

### 10.3.4 Determining Year Level

a) A student's year level is determined two times a year: 1) after Winter term grades have been recorded (normally by the end of May); and 2) after Spring/Summer term grades have been recorded (normally by mid-September).

b) Students who have earned less than 24 credits have first-year standing.

c) Students who have earned 24 to 53 credits have second-year standing.

d) Students who have earned 54 to 83 credits have third-year standing.

e) Students who have earned 84 or more credits have fourth-year standing.

### 10.3.5 Normal Course Loads and Overloads (Fall and Winter terms)

a) Full-time students are expected to register for the equivalent of 30 credits in the Fall and Winter terms, normally 15 credits per term. Students in any program may add ensemble credits in Music to a normal course load.

b) Full-time students who are in Good Standing are permitted to take up to six credits through correspondence as part of a normal course load.

c) Students with first-year standing are not permitted to register for more than 15 credits per term. Under exceptional circumstances first-year students may be permitted to overload in the Winter term if they achieve a TGPA of at least 3.5 in the Fall term.

d) Students with second- or third-year standing who are in Good Standing may register for up to 18 credits per term, provided they

have attained a TGPA of at least 2.0 in the previous Fall or Winter term. Students in Good Standing who do not meet this requirement must have permission from the appropriate Academic Dean in order to register for overload credits.

e) Students with fourth-year standing who are in Good Standing may register for up to 18 credits per term. Students who are not in Good Standing must have permission from the appropriate Academic Dean in order to register for overload credits.

f) The permission of the appropriate Academic Dean is required for registration above 18 credits per term.

g) Students who qualify to overload under Section 10.3.5d or 10.3.5e may only register for the overload for the following Fall and Winter terms after June 1.

### 10.3.6 Normal Course Loads and Overloads (Spring/Summer term)

a) Students may register for a maximum of 12 credits, including a maximum of 6 credits from correspondence courses, during the Spring/Summer term.

b) Students must be in Good Standing to register for correspondence courses.

c) The permission of the appropriate Academic Dean is required for registration above the limits specified in Section 10.3.6a.

### 10.3.7 Repeating Courses

a) No student may take the same course more than three times or be examined in it more than four times.

b) No student may take an Applied Music course more than twice or be examined in it more than three times.

### 10.3.8 Auditing Courses

a) Students admitted to the university who wish to audit a course must obtain written permission of the instructor before formally registering for the course.

b) The instructor may deny permission to audit the course.

c) The nature and degree of class participation must be clarified in advance and are at the discretion of the course instructor.

d) Students auditing a course will not write final examinations or receive a grade for the course.

e) The notation of 'AU' will be indicated on the transcript upon verification by the instructor that the student has completed the specified nature and degree of class participation. If such verification is not received, a 'W' is automatically recorded on the transcript.

f) A course may not be changed from credit to audit or from audit to credit status after the last day of the change in registration period.

g) Registration and withdrawal deadlines apply to audited courses.

h) Fees are payable as indicated in the Financial Information section of the Calendar.

## 10.4 CHANGES IN REGISTRATION AND WITHDRAWAL

### 10.4.1 Deadline for Registration Changes

a) Registration changes for 3 credit Fall or Winter term courses are allowed until the second Friday of each term.

b) Registration changes for all 3 and 6 credit full year courses are allowed until the second Friday of the Fall term.

c) Registration changes for Spring/Summer term courses are allowed until the first Friday of the term.

d) For specific intensive study courses the Registrar's Office will designate the deadline for registration changes.

### 10.4.2 Changing Programs

a) A student wishing to transfer from one program to another must apply to the Registrar's Office for a transfer, not later than the date specified for each program in the Calendar of Events (Section 2.2).

b) Request for *Change of Degree Program* forms are available on the Registrar's Office web page.

### 10.4.3 Withdrawal Without Penalty

a) All students registered during the Fall and Winter terms may withdraw without academic penalty from a 3 credit course before the end of the eighth week of term.

b) All students registered during the Fall and Winter terms may withdraw without penalty from a 6 credit course or a full year 3 credit course before the end of the second week in the Winter term.

c) Students registered for non-correspondence courses during Spring/Summer term may withdraw without academic penalty before the end of the fourth week of classes. Students wishing to withdraw from these courses must notify the Registrar's Office in writing. Please see section 4.5.3 for financial information.

d) For specific intensive study courses the Registrar's Office will designate the deadline for withdrawal without penalty.

e) Students registered in a correspondence course in the Spring/Summer term may withdraw without academic penalty by notifying the Registrar's Office in writing provided that such withdrawal occurs before not more than half the normal time limit for the course has elapsed.

### 10.4.4 Course Withdrawal After the Deadline

a) A student who wishes to withdraw after the deadline because of a serious ongoing medical or personal issue that makes completion of a course unreasonable may apply to the Dean's Office to request consideration of a 'W' designation by completing a Dean's Permission Request Form. Where appropriate, documentation from a medical professional to support the request for late withdrawal may be required.

b) Any student who does not withdraw from a course in accordance with these regulations must remain registered in the course for the remainder of the term and will receive a grade.

c) Any request for late withdrawal must normally be submitted before the last day of classes of the term in which late withdrawal is being requested.

### 10.4.5 Withdrawal from University

a) A student may withdraw from the University without academic penalty by submitting written notification to the Director of Student Life prior to the deadline for withdrawals from 3 and 6 credit courses as outlined in the Calendar of Events (Section 2.2).

b) A student who withdraws from the University after this time, will remain registered and will receive grades, and Regulation 10.9.11 (Assessment of Academic Standing) will apply unless, on the recommendation of the Vice President International and Student Affairs, ' the student is granted late withdrawal because of serious ongoing medical or personal issues.

c) Any request for late withdrawal must normally be submitted before the last day of classes of the term in which late withdrawal is being requested.

## 10.5 TRANSFER CREDITS

### 10.5.1 Letter of Permission to Take Courses at another Institution

a) Students planning to take courses at another university for Mount Allison credit must first obtain the Registrar's approval, by completing an *Application for a Letter of Permission*, available on the Registrar's Office web page.

b) Letters of Permission are only issued on a retroactive basis if the application is made before the end of the academic term following completion of the course. A late application fee will be charged (see Section 4.4.1b).

c) Students must be in Good Standing to take courses on Letter of Permission at another university.

d) If approval is granted, a Letter of Permission will be issued on payment of the requisite fee. A passing grade may be accepted for transfer credit; however, students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

e) Transfer credits are recorded on the transcript with credit value only, no grade is recorded and they are excluded from the Grade Point Average.

## 10.6 ACADEMIC INTEGRITY

All members of the University community are expected to conduct themselves in an ethical manner, demonstrating a commitment to academic integrity and inherent fundamental values of honesty, fairness, respect, including respectful disagreement, and responsibility. It is the policy of the University that academic misconduct will not be tolerated. The academic regulations pertaining to academic integrity and academic misconduct are to be read in conjunction with the Academic Integrity Policy and Procedures.

### 10.6.1 Responsibilities

a) All members of the University community (i.e. students, faculty, and staff) are responsible for maintaining an atmosphere of academic integrity in all aspects of the academic enterprise.

b) Students have a responsibility to familiarize themselves with the University regulations and the conduct expected of them while studying at Mount Allison University.

c) Instructors are required to articulate clearly academic expectations in course outlines, including proper form of citation and use of sources, and expectations regarding collaboration and group work, and are encouraged to use strategies that reduce opportunities for academic misconduct.

d) Any member of the University who has reason to believe that academic misconduct has occurred has a responsibility to report the matter promptly to the instructor of the course or, if the allegation does not involve a specific course or courses, to the appropriate Academic Dean. A teaching assistant or exam invigilator shall report to the instructor of the course who will investigate and report the incident as per the Academic Integrity Policy, Appendix A, 7.2.1.

e) Authority to deal with academic matters under the Academic Integrity Policy rests with the Academic Dean assigned with this responsibility as the Academic Integrity Officer (AIO) by the Provost and VP Academic and Research.

f) All allegations of academic misconduct will be reported to the Academic Dean (AIO). It is the responsibility of the Academic Dean (AIO) to conduct the appropriate follow-up to ensure the implementation of educative action, academic penalties, or sanctions, if applicable.

g) Decisions taken by the Academic Dean (AIO) may be appealed to the Academic Appeals Committee.

### 10.6.2 Academic Misconduct

Examples of academic misconduct include but are not limited to the following:

a) plagiarism or misrepresenting someone else's work, whether ideas, words, creative works, published or unpublished, as your own

b) submitting work you've already received academic credit for, or that you are already submitting for another course, without written permission from your instructor(s)

c) falsifying results in lab experiments, field exercises, or other assignments

d) use of unauthorized aid or assistance in tests or exams

e) collaborating on assignments that were designated by the instructor as individual work

f) impersonating another student, or knowingly allowing someone to impersonate you, in an assignment, test, or exam

g) using someone else's computer account or using your computer account for unauthorized purposes

h) interfering with or damaging someone else's academic work including their access to campus resources

i) obtaining, viewing, or sharing information about an assignment, test, or exam

j) knowingly helping someone else engage in academically dishonest behavior

k) submitting false information or false medical documentation or misrepresenting personal circumstances to postpone or gain an advantage for any academic work

l) tampering with academic transcripts or records and/or submitting false credentials

m) any other form of misrepresentation, cheating, fraudulent academic behavior or other improper academic conduct of comparable severity

### 10.6.3 Determination of Offences and Outcomes

a) Academic misconduct may be alleged by a course instructor with respect to a course or courses taught by him/her. A determination of academic misconduct shall be based on a discussion between the student and the instructor, in person if possible, including a review of the evidence.

b) If academic misconduct has been determined, the instructor may impose an educative action (e.g. for instances that could be attributed to lack of understanding of appropriate citation) or an academic penalty (e.g for instances that reflect a serious breach of academic integrity).

c) The instructor will report the allegation and the outcome, whether educative action or academic penalty, to the Department Head and the Academic Dean (AIO) using the Report of Academic Misconduct form.

d) Academic misconduct may be alleged by a member (or members) of the university community other than a course instructor (e.g. invigilators in examinations, other students, Computing Services staff, etc.). If the allegation involves a course, it will be referred to the course instructor, who will follow procedures as above and as outlined in the Academic Integrity Policy, Appendix A, Section 7- Procedures for a Report of Academic Misconduct.

e) If the allegation does not involve a specific course or courses it will be referred to the Academic Dean (AIO), who will follow procedures as outlined in the Academic Integrity Policy, Appendix A, Section 7.

f) If the student disputes the allegation or the severity of the academic penalty imposed by the instructor s/he may appeal to the Academic Dean (AIO).

g) All decisions of the Academic Dean (AIO) may be appealed to the Academic Appeals Committee (under the conditions outlined in the Academic Integrity Policy, Section 6).

h) Students must be advised of resources for support and their right to appeal decisions. Resources to advise students include any member of the University community such as: a MASU representative, Chaplain, Counselling Services, the Meighen Centre, and the Student Life Office.

### 10.6.4 Academic Penalties and Sanctions

a) In each case in which it has been determined that there has been academic misconduct, the relevant authority will determine and impose appropriate educative actions (Instructors, Academic Dean (AIO)), academic penalties (Instructors), or academic sanctions (Academic Dean (AIO) or the Academic Appeals Committee).

b) The following educative actions, academic penalties, or sanctions may be imposed:

i) Educative Actions (may be imposed by Instructors or Academic Dean (AIO)) such as:

- re-writing of the assignment
- letter of reprimand and requirement to participate in an educational or remedial academic activity

ii) Academic Penalties (may be imposed by Instructors), such as:

- lower grade or failure on the assignment, test, or exam
- failure in the course

iii) Academic Sanctions (may be imposed by the Academic Dean (AIO)* or Academic Appeals Committee)

- rescinding of an offer of admission
- disciplinary probation, suspension*, dismissal* or expulsion* which will be recorded on the transcript
- revocation of degree*, diploma*, certificate or course credit*

c) Disciplinary probation, suspension, dismissal and expulsion will be recorded on students' transcripts. Except in cases of expulsion, one year after the expiry of the sanction the student may make a written request to the Registrar to have the notation of the offence removed from the transcript.

*decision requires consultation with the Academic Integrity Committee

NOTES:

- "Being an accessory" equates to "committing the offence".
- Disciplinary suspension refers to a term up to 2 years, disciplinary dismissal is for 3 years, expulsion is permanent.
- Disciplinary suspension or dismissal for academic misconduct means complete withdrawal from the University for the specified period. This means that students may not attend classes, do presentations or submit tests, essays or assignments of any sort, whether online, on paper or other medium, nor may they receive credit for courses taken elsewhere during the period of suspension or dismissal.
- The terms of suspension or dismissal are effective until such time as the student applies for and is offered re-admission to the University.

## 10.7 MISSED COURSEWORK OR TESTS

### 10.7.1 Missed Coursework or Tests

a) Mount Allison University encourages students to take responsibility for any health or personal problems that affect their academic performance. If students miss any kind of course work or test or are unable to meet deadlines for assigned work due to medical or personal circumstances beyond their control, they are urged to notify their instructor(s) as soon as they are aware that the illness or problem will affect their attendance and/or academic performance. Together, student and instructor should work to find appropriate and reasonable accommodation(s).

b) The Student Life Office may, in some circumstances, issue a notice on behalf of a student (for example, in the case of a sudden departure from campus due to family or medical circumstances) indicating that in the opinion of that office the student's ability to focus on academic work has been compromised. In such cases, appropriate supporting documentation is held by the Student Life Office.

c) Notes offering suggested accommodation(s) for particular circumstances may occasionally be prepared by professional staff in the Student Life Office but the primary responsibility for such accommodation(s) is between student and instructor.

d) It is understood that students must take personal responsibility for their academic performance, including the management of circumstances that may be beyond their control. Any concerns or allegations of misrepresentation of personal circumstances will be deemed to constitute an allegation of academic dishonesty and may be referred to the Academic Judicial Committee.

# 10.8 EXAMINATION REGULATIONS

## 10.8.1 Scheduled Tests and Final Examinations (Fall and Winter terms)

a) No in-class or take-home tests worth more than 10% of the final grade, and no final tests or examinations, with the exception of laboratory examinations, may be scheduled during the last five days of classes of either term, or between the last day of classes for the term and the first day of the examination schedule.

b) Take-home final examinations may be distributed at any time. They may not be due before the third day of the examination period and must not be due after the last day of the examination period.

c) All final tests and examinations (except laboratory examinations) will be scheduled in the final examination period. Requests for exemption from this regulation must be directed to the Vice-President (Academic & Research) for authorization.

## 10.8.2 Scheduled Tests and Final Examinations (Spring/Summer term)

a) Normally final examinations for Spring/Summer term non-correspondence courses will take place during the last scheduled class.

b) Final examinations for Spring/Summer term correspondence courses will normally be written on the Saturday prior to the start of the Fall term.

## 10.8.3 Viewing Examination Papers

a) Academic Departments must retain all final examination papers on file for six months following the date of the examination.

b) On request, students may arrange with a department or program to review their own examination paper(s) after final grades have been released by the Registrar's Office; however papers may not be removed from the department.

c) For purposes of this regulation a final examination shall be defined as one written in the regular or deferred examination periods.

## 10.8.4 Accommodations for Missed Final Examinations

a) A student may request accommodation for a missed final examination as a result of illness or for compassionate reasons by submitting an *Application for Exam Accommodation* form, which is available on the Registrar's Office web site.

b) Accommodations for missed final examinations will be determined by the Registrar (or direct delegate) after consultation with the instructor.

c) If a deferred examination is approved as the appropriate exam accommodation for a Fall term course, the deferred exam will normally be written during the first week of the Winter term. Exceptions must be approved by an Academic Dean.

d) A deferred examination in a Winter term course must normally be written by the end of May, to be arranged by the Registrar (or direct delegate) in consultation with the instructor and student. If the examination cannot be written by that time, the student's academic standing will not be assessed until final grades have been submitted.

e) Students who do not clear their deferred status by the start of classes in the Fall term will receive a non pro-rated final grade and academic standing will be assessed based on these results.

## 10.8.5 Extended Deadlines for Completion of Course Work

a) If illness or compassionate reasons prevent a student from submitting all course work by the prescribed deadlines, the Registrar (or direct delegate) and the instructor may agree to extend the deadline(s) for completion of the work for up to four weeks beyond the original deadline(s).

b) If a granted extension prevents an instructor from submitting a final grade, a notation of 'INC' will be recorded on the transcript with a credit value of '0.0'.

c) If no grade is submitted by the specified extended deadline, the notation of 'INC' will be converted to an 'F'. Exceptions must be approved by an Academic Dean.

## 10.8.6 Special Examinations

a) A student with fourth-year standing may apply for a special examination if the following conditions apply:

i) the student has failed a course three times,

ii) that course is required for a degree program, and

iii) there is no acceptable alternative to allow fulfillment of degree requirements

b) Application for a special examination must be made in writing by using the form available on the Registrar's Office web page.

c) A fee is charged for each special examination. This fee will be refunded if the application is not approved.

d) Applications for special examination must be approved by the Registrar, following consultation with the student, the instructor, and the Academic Dean.

e) The result of a special examination will be recorded with a grade of 'Pass' or 'Fail' unless the Registrar, in consultation with the instructor, determines that a letter grade would be more appropriate.

# 10.9 EVALUATIONS OF STUDENT PERFORMANCE

## 10.9.1 Grading Policies for Courses

a) In the first week of classes at the beginning of each academic term instructors shall provide each student in their courses with written information indicating the policy concerning assignments, tests, final examination, practical and laboratory work, class participation and attendance. The same information shall also be provided to the Department Head and the appropriate Academic Dean.

b) In all courses, work worth at least 20% of the final grade will normally be evaluated and returned to students before the withdrawal date for the course. Exemptions from the policy must be authorized by the appropriate Academic Dean.

## 10.9.2 Reporting of Grades

a) Course work must be completed prior to the deadline for submission of the final grades.

b) Faculty members may not provide final grades or final exam grades to students in any form prior to the release of grades by the Registrar's Office. The Registrar's Office reports results to students following each examination period if all accounts with the University have been paid.

c) Faculty members must submit final grades to the Registrar's Office according to the following deadlines:

i) Fall Term: Normally before the University closes for the December holiday. With permission of an Academic Dean an extension may be granted to the day before the start of Winter Term classes.

ii) Winter Term: For all students whose names appear on the prospective May graduation list, four calendar days after the last day of the April examination period. For all other students normally 30 April. For non-graduating students, with permission of an Academic Dean an extension may be granted to the day before the start of Spring/Summer Term classes.

iii) For all other courses: Within seven calendar days of the final exam or the submission of final written work for the course.

## 10.9.3 Letter Grades and their Meanings

Letter grades are assigned. These grades, with descriptors and Grade Point Average equivalents as applicable, are as follows:

| Letter Grade | Descriptor | GPA Equivalent |
|---|---|---|
| A+ | Outstanding | 4.3 |
| A | Excellent | 4.0 |
| A- | Very Good | 3.7 |
| B+ | Good | 3.3 |
| B | Good | 3.0 |
| B- | Good | 2.7 |
| C+ | Satisfactory | 2.3 |
| C | Satisfactory | 2.0 |
| C- | Satisfactory | 1.7 |
| D+ | Conditional (non-continuing) Pass | 1.3 |
| D | Conditional (non-continuing) Pass | 1.0 |
| D- | Conditional (non-continuing) Pass | 0.7 |
| F | Failure | 0.0 |

| Transfer Credits | Descriptor | GPA Equivalent |
|---|---|---|
| P | Pass, may be used to fulfill pre-requisite requirements | excluded from the GPA |
| CP | Conditional Pass - may not be used to fulfill prerequisite requirements (Also used for Aegrotat Pass) | excluded from the GPA |

| Other Notations | Descriptor | GPA Equivalent |
|---|---|---|
| AU | Audit | excluded from the GPA |
| CIP | Course in progress | excluded from the GPA |
| CTN | Continuing, full year course, final grade recorded in 2nd term | |
| DE | Course results deferred | excluded from the GPA |
| E | Exemption from a course | excluded from the GPA |
| INC | Incomplete | 0.0 |
| W | Withdrawal from a course after course withdrawal deadline, without academic penalty | excluded from the GPA |
| X | Withdrawal from University | excluded from the GPA |
| * | Indicates repeated course | |

## 10.9.4 Prerequisite Grade Requirements

a) A grade of D (D+, D, D-) in any course will be considered a non-continuing pass. In order for a course to be used to fulfill prerequisite requirements, a grade of C- or better must be obtained. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

## 10.9.5 Grades Excluded from GPA

a) Results from Special Examinations are reported on a Pass/Fail basis and are excluded from Grade Point Average calculations.

b) Transfer credits are excluded from the Grade Point Average.

## 10.9.6 Calculation of TGPA, SGPA and CGPA

a) A Term Grade Point Average (TGPA) is calculated at the end of each term by dividing the total number of grade points obtained during the term (credit hours x grade points) by the number of credit hours attempted per term.

b) A Session Grade Point Average (SGPA) is calculated at the end of the Winter term in each academic session (Spring/Summer, Fall, Winter) by dividing the total number of grade points obtained during the session (credit hours x grade points) by the number of credit hours attempted.

c) A Cumulative Grade Point Average (CGPA) is calculated by dividing the total number of grade points obtained on all courses (credit hours x grade points) by the total number of credit hours attempted.

## 10.9.7 Repeated Courses, SGPA and CGPA

a) In the event that a course is repeated, only the higher grade will be used in the Cumulative Grade Point Average calculation and in calculating the total number of credit hours used for the Cumulative Grade Point Average calculation.

b) In the event that a course is repeated within the same academic session, only the higher grade will be used in the Session Grade Point Average calculation and in calculating the total number of credit hours used for the Session Grade Point Average calculation.

c) In the event that a course is repeated by transfer credit, the transfer credit is excluded from Cumulative Grade Point Average calculations, but the failed attempt(s) that the transfer credit replaces will also be excluded from the Cumulative Grade Point Average calculations.

d) All results from attempts at a course will remain on the transcript.

e) This regulation does not apply to the calculation of Honours averages (see Section 10.10.4d).

## 10.9.8 Grade Changes

a) The maximum time limit permitted for a change of final grade is two months from the last day of classes in the term.

b) A grade change must be approved by the Dean of the Faculty in which the course is offered.

c) Once a final grade has been submitted to the Registrar, unsanctioned supplementary examinations or any additional assignments for the purpose of changing that grade are not permitted.

## 10.9.9 Re-evaluation of a Grade

Students may apply in writing for re-evaluation of a grade within 30 days of the release of final grades at the end of each term under one of the following scenarios:

a) **Request for Re-calculation of a Grade.** Students may request a re-calculation of the final grade without any review of written material. The calculation of the final grade will be reviewed by the instructor who will report a change in grade to the Registrar.

b) **Application for Re-Read.** Students may apply in writing for a re-read of the final examination and/or any written material not returned to the class before the last day of the final examination period of the term in which the course is concluded. An Application for a Re-Read must be submitted to the Registrar's Office, specifying the material that is to be re-evaluated. The material in question will be re-read by the faculty member concerned as well as by another faculty member designated by the Department Head. If there is serious disagreement between the two readers, the Department Head, or Academic Dean where appropriate, will then review the material under re-evaluation. If the final mark is based on performance not evaluated by written material, the re-read by both participants will be confined to a review of the mark sheets compiled by the original instructor. Students should remind themselves of the value of these items in relation to the overall course mark before determining whether it is worthwhile to apply for a re-read. The results of the re-read will normally be conveyed to the student within 30 days of receipt of the application. Students should remember that a grade can be revised upwards or downwards. A fee must be submitted with the application. If the grade is revised upwards, the fee will be refunded. Application forms are available on the Registrar's Office web page.

## 10.9.10 Aegrotat Standing

a) If for medical or compassionate reasons a student is unable to complete one or more courses with in the term in which the course is offered, the student shall first seek exam accommodations (10.8.4) or extended deadlines for completion of course work (10.8.5).

b) If the nature or severity of the circumstances prevents the student from completing the course work or the final examination within six months of the end of the term in which the course was offered, the student may be granted Aegrotat Standing if:

   i) a request for Aegrotat Standing and supporting documentation are sent to the Registrar within two (2) weeks of the date that was set for any extended deadline or deferred examination;

   ii) the Registrar, in consultation with the instructor or the department, confirms that the student completed with passing grades at least 60% of the work required in the course; and

   iii) an Academic Dean approves the recommendation of the Registrar to award Aegrotat Standing.

c) If Aegrotat Standing is approved, the grade will appear on the student's transcript as a 'CP' Conditional Pass.

## 10.9.11 Assessment of Academic Standing

a) Academic standing is determined on the basis of the Session Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA).

b) Academic standing is assessed once per year at the end of the Winter term.

c) Students will be assessed for the first time when they have attempted at least 18 credits at Mount Allison.

## 10.9.12 Good Standing

a) Students remain in Good Standing if they attain a Session Grade Point Average (SGPA) of at least 1.5 and a Cumulative Grade Point Average (CGPA) of at least 1.5.

b) Students must be in Good Standing and have permission of the University for study abroad programs in which the University participates.

c) Students must be in Good Standing if they wish to apply for a Letter of Permission to take courses at another institution or to register for correspondence courses offered by Mount Allison. Exceptions must be approved in writing by the appropriate Academic Dean.

d) Graduating students who have completed all other degree requirements but whose SGPA would normally place them on Academic Probation will remain in Good Standing if their CGPA remains at least 1.5.

## 10.9.13 Unsatisfactory Standing

a) Students whose academic performance is such that they fail to achieve Good Standing will be placed on Academic Probation, Academic Suspension or Academic Dismissal, which will be recorded on their transcript.

b) Students on Academic Suspension or Academic Dismissal will be notified in a letter from the Chair of the Admissions and Re-admissions Committee of their academic standing and the procedures and deadlines for appeal.

c) Those students seeking re-admission to the University must apply in a letter addressed to the Chair of the Admissions and Re-admissions Committee to be received by the Registrar's Office by the deadline specified (see 10.9.18 Procedures for Appeals and Re-admissions). Letters of appeal for re-admission received after the deadline will not be considered by the Admissions and Re-admissions Committee.

## 10.9.14 Academic Performance Indicators

a) Student records are reviewed at the end of each academic term for academic progress.

b) Academic Performance is recorded in Connect as Satisfactory (TGPA of at least 1.5) or Unsatisfactory (TGPA of less than 1.5).

c) This is not an academic standing and is not recorded on the transcript, but serves as a warning to students that they might be in academic jeopardy if their grades do not improve and academic advising should be sought.

## 10.9.15 Academic Probation

a) Students who have been in Good Standing will be placed on Academic Probation if they attain:
   i) a Session Grade Point Average (SGPA) of less than 1.5 or
   ii) a Cumulative Grade Point Average (CGPA) of at least 1.0 but less than 1.5
b) Students who are on Academic Probation are not permitted to register for more than the normal course load (15 credits in each of the Fall and Winter terms, 12 credits in the Spring/Summer term).
c) To return to Good Standing, students on Academic Probation must attain:
   i) i) a Session Grade Point Average (SGPA) of at least 1.5, during the probationary period AND
   ii) ii) a Cumulative Grade Point Average (CGPA) of at least 1.5.
d) Students on Probation are permitted to continue to register on Probation provided their SGPA during the probationary period is at least 1.5.
e) Students on Probation who do not achieve a SGPA of 1.5 will be placed on Suspension.
f) Students on Academic Probation are not eligible to take courses on Letter of Permission or to register for correspondence courses offered by Mount Allison. Exceptions must be approved in writing by the appropriate Academic Dean.

## 10.9.16 Academic Suspension

a) Students in Good Standing will be placed on Academic Suspension if in any academic year they obtain a Cumulative Grade Point Average (CGPA) of less than 1.0.
b) Students who are on Academic Probation will be placed on Academic Suspension if they obtain a Session Grade Point Average (SGPA) of less than 1.5.
c) Students on Academic Suspension may not register for any Mount Allison courses nor receive credit at Mount Allison for courses taken elsewhere during the suspension period. Students may apply for re-admission at the end of the period of Academic Suspension.
d) The period of Academic Suspension is one full year; however, the terms of Academic Suspension are effective until such time as the student applies for and is offered re-admission to the University.
e) If accepted, students will be re-admitted on Academic Probation and special conditions may apply. To seek re-admission following a period of Suspension, students must complete a *Former Student Application* form and the *Supplementary Questionnaire*, available on the Registrar's Office web page. These must be received by the Registrar's Office at least two months prior to the academic term for which the student is applying for re-admission and, if applying for re-admission to the study term commencing in September, no later than June 15.

## 10.9.17 Academic Dismissal

a) Students who incur a second academic suspension are dismissed for three years.
b) During dismissal, they may not register for any courses offered by Mount Allison, nor receive credit at Mount Allison for courses taken elsewhere during the dismissal period.
c) Students may apply for re-admission at the end of the period of Academic Dismissal.
d) The terms of Academic Dismissal are effective until such time as the student applies for and is offered re-admission to the University.
e) To seek re-admission following a period of Dismissal, students should complete a *Former Student Application* form and the *Supplementary Questionnaire*, available on the Registrar's Office web page. These should be received by the Registrar's Office at least two months prior to the academic term for which the student is applying for re-admission and, if applying for re-admission to the study term commencing in September, no later than June 15.
f) Students returning after dismissal will be re-admitted on Academic Probation and special conditions may apply. If they fail to maintain a Session GPA of 1.5, they will be refused further registration at Mount Allison.

## 10.9.18 Procedures for Appeals and Re-admissions

a) Students who have been notified that their academic performance is such that they have been placed on Academic Suspension or Academic Dismissal may appeal their academic standing.
b) A Letter of appeal with all supporting evidence must be submitted to the Registrar's Office by the deadline specified in the notification.
c) Letters of appeal, which will be reviewed by the Admissions and Re-admissions Committee, should clearly and completely outline the factors that accounted for poor academic performance and explain why the applicant feels ready to commence studies again.
d) The appeal will be directed to the Admissions and Re-admissions Committee; should it be rejected by that Committee, the student will be informed of the grounds and deadline by which s/he may appeal the Committee's decision to the Re-admissions Appeals Committee, whose decision is final.
e) A Letter of appeal will only be forwarded for consideration by the Admissions and Re-admissions Committee or the Re-admissions Appeals Committee if there are no outstanding fees payable on the student's account (see 4.4.4 in the Fees section).

## 10.9.19 Disciplinary Suspension or Dismissal

a) Disciplinary suspension or dismissal may be imposed by the University Judicial Committee or Academic Judicial Committee for infractions of the student discipline code as outlined in the document *Policies and Procedures for Student Governance*.
b) To seek re-admission following disciplinary suspension or dismissal, students should complete a *Former Student Application* form and the *Supplementary Questionnaire*, available on the Registrar's Office web page. These must be received by the Registrar's Office at least two months prior to the academic term for which the student is applying for re-admission and, if applying for re-admission to the study term commencing in September, no later than June 15.
c) The Admissions and Re-admissions Committee will review the academic record only.

## 10.9.20 Deans' List

a) Mount Allison recognizes excellent academic performance through the Deans' List.

b) Deans' List standing is assessed once per year after grades have been submitted at the end of the Winter term.

c) To be placed on the Deans' List, a student must:

i) complete at least thirty credits over the academic session (May through April), including at least 24 credits taken in the Fall and Winter terms, and

ii) achieve a SGPA of at least 3.7 on that work

d) Students who achieved Deans' List standing in the academic session preceding a year long Study Abroad Program*, will maintain Deans' List standing until their Academic Standing is next assessed.

e) Students who participate in a one term Study Abroad Program* during an academic session will be assessed for Deans' list standing based on all credits completed at Mount Allison during the session, provided that they have carried the equivalent of a regular thirty credit course load from the combination of study abroad courses and Mount Allison courses.

f) Students with documented disabilities, on the written recommendation of the Meighen Centre, are entitled to reasonable accommodations with respect to course load expectations.

g) The Deans' List carries no financial award.

* for a list of eligible Study Abroad Programs, please refer to 11.11.1

# 10.10 DEGREE REQUIREMENTS

## 10.10.1 Academic Standing and Credits Required for a Degree

a) Students must be in Good Standing to be eligible to graduate (subject to 10.9.12 d).

b) All undergraduate degrees require completion of 120 credits.

c) Other degree requirements are set out in the summary of specific programs found in Section 11 of this Academic Calendar.

## 10.10.2 Academic Residency Requirements

a) Students must complete with courses from Mount Allison:

i) at least half the credits required for a degree

ii) at least half of the requirements for a Major or Honours program, including all 3/4000 level credits, subject to 10.10.2 d); and

iii) at least 6 credits of the requirements for a Minor.

b) For the purposes of this requirement, transfer credits earned from an approved Mount Allison study-abroad or international exchange program (Calendar section 11.11.1) will count towards the Minor, Major, or Honours.

c) The total of credits earned through any form of Advanced Standing (Calendar section 3.9), through Transfer Credits (Calendar sections 3.10 and 10.5), and through Challenge for Credit (Calendar section 3.11) may not be greater than 60.

d) No more than six credits transferred at the 3/4000 level may be used to fulfill 3/4000 level requirements.

e) An Academic Dean must approve any exceptions to 10.10.2 a) ii., 10.10.2 a) iii., or 10.10.2 d).

## 10.10.3 Degree with Distinction Requirements

a) The degrees of Bachelor of Arts, Bachelor of Science, Bachelor of Commerce, Bachelor of Fine Arts, and Bachelor of Music will be awarded with Distinction at the discretion of the Senate.

b) To be considered for Distinction, a student should have achieved a Cumulative Grade Point Average (CGPA) of approximately 3.7 in all work undertaken at the University.

## 10.10.4 Honours GPA and Overall GPA Requirements

a) A degree with First Class Honours requires attainment of a 3.7 Grade Point Average in the prescribed Honours work

b) A degree with Honours requires attainment of a 3.0 Grade Point Average in the prescribed Honours work.

c) When a thesis is part of the program, a minimum grade of B is required in all cases.

d) In addition, an overall Grade Point Average of approximately 3.0 must be earned by all Honours candidates on all work, including repeated courses, undertaken beyond the first year at Mount Allison. For those in full-time attendance at Mount Allison for three years or fewer, this average will be calculated on all Mount Allison courses taken.

## 10.10.5 Submitting a Thesis

a) An Honours student's thesis must be submitted to the department or program for grading no later than the first day of the Winter term examination period.

b) Bound copies of the thesis must be submitted to the office of the Academic Deans no later than the last day of the final examination period.

## 10.10.6 Falling Short of the Honours Requirements

Students failing to achieve the minimum standard for Honours as defined in 10.10.4, but who otherwise have satisfactorily completed all of the courses in the prescribed curriculum, will be awarded a degree in the Major area of study.

## 10.10.7 Second Undergraduate Degree Requirements

a) Students who hold one undergraduate degree from Mount Allison may apply for re-admission to be a candidate for a second different undergraduate degree under the following regulations:

i) the student should have demonstrated strong academic ability and must be approved by an Academic Dean.

ii) the student must fulfill all the requirements for the second degree

iii) the student must complete Mount Allison courses totaling at least 36 additional credits, beyond those required for the first degree.

b) Students who wish to complete the requirements for two different Bachelor's degrees at the same time must apply to the appropriate Academic Dean for approval. If approved, regulations 10.10.7a i, ii, and iii apply.

### 10.10.8 Honours Certificate

Recipients of a first degree from Mount Allison earned with a Cumulative Grade Point Average of approximately 3.0 in all work, including repeated courses, undertaken beyond the first year at Mount Allison and in the intended Honours program, may apply to an Academic Dean to return as a candidate for an Honours Certificate. Application forms are available on the Registrar's Office web page.

## 10.11 GRADUATION AND CONVOCATION

### 10.11.1 Application for Graduation

All prospective graduates must complete an Application for Graduation by the deadline indicated in the Calendar of Events (Section 2.2) for the academic year in which they intend to graduate. Application forms are available on the Registrar's Office web page.

### 10.11.2 Completed Degree Requirements - May

a) Prospective degree and certificate candidates are responsible for completing degree requirements according to the regulations pertaining to their program.

b) All full and part-time students must register for and complete all remaining work toward the degree or certificate during the preceding May to April academic session.

c) Results must be officially reported to the Registrar before the deadline for submission of final grades (Section 10.9.2). In exceptional cases where there has been an approved extended deadline results may be accepted after this date.

d) The Registrar posts a list of prospective degree and certificate candidates for each May Convocation approximately five months prior to Convocation. All prospective degree and certificate candidates are responsible for checking the accuracy of this list and reporting any errors or omissions to the Registrar.

### 10.11.3 Completed Degree Requirements - October

a) Students who complete degree and/or certificate requirements after May Convocation and who apply and are approved for graduation at the October Senate meeting, will have their degrees conferred *in absentia* and will be accorded the academic status of graduates from that date forward.

b) October Graduates will be invited to participate in the subsequent May Convocation ceremony.

### 10.11.4 Academic Costumes

a) Successful degree and/or certificate candidates who come to Convocation must wear proper academic costumes.

b) Those who do not attend the ceremony will receive their diplomas in absentia. The diplomas will be mailed out after Convocation.

### 10.11.5 Authorized Hoods

The following hoods are authorized for holders of Mount Allison degrees:

a) Bachelor of Arts: a hood of black stuff edged with garnet and silk and with front of loop bordered with gold silk.

b) Bachelor of Science: a hood of black stuff edged on the inside with old gold silk.

c) Bachelor of Music: a hood of black stuff edged on the inside with royal blue silk.

d) Bachelor of Fine Arts: a hood of black stuff edged on the inside with green silk, and orange ornamentation.

e) Bachelor of Commerce: a hood of black stuff edged on the inside with light grey silk.

f) Bachelor of Teaching: a hood of black stuff edged on the inside with mauve silk.

g) Bachelor of Education: a hood of black stuff edged on the inside with light blue silk.

h) Bachelor of Music Education: a hood of black stuff edged on the inside with turquoise silk.

i) Master of Arts: a hood of black silk or stuff with a full lining of garnet silk

j) Master of Science: a hood of black silk or stuff with a full lining of old gold silk.

k) Master of Social Work: a hood of black silk or stuff with a full lining of fuchsia silk.

l) Master of Education: a hood of black silk or stuff with a full lining of light blue silk.

m) Doctor of Divinity, a hood of scarlet cloth lined with purple silk.

n) Doctor of Laws, a hood of scarlet cloth lined with blue silk.

o) Doctor of Civil Law, a hood of scarlet cloth lined with old gold silk.

p) Doctor of Literature, a hood of scarlet cloth lined with white silk.

q) Doctor of Music, a hood of scarlet cloth lined with blue silk lining and half-inch facings.

r) Doctor of Science, a hood of scarlet cloth lined with primrose yellow silk.

s) Doctor of Fine Arts, a hood of scarlet cloth lined with green silk.

### 10.11.6 Honorary Degrees

The Senate of the University has authorized the awarding of the following degrees Honoris Causa:

a) Doctor of Divinity (D.D.)

b) Doctor of Laws (LL.D.)

c) Doctor of Civil Law (D.C.L.)

d) Doctor of Literature (D.Litt.)

e) Doctor of Music (D.Mus.)

f) Doctor of Science (D.Sc.)

g) Doctor of Fine Arts (D.F.A.)

### 10.11.7 University Prizes

Francis S. Allison Award
Alumni Academic Achievement Award
Ambassador of France
Ambassador of Spain
Ambassador of Switzerland
Donald A. Anderson Prize
Department of Anthropology Prize
John P. Asimakos Award in Painting
Charles Frederick Allison Avard Prize

Ada Ayer Prize
Lady Banting Prize
Barritt-Marshall International Graduating Student of the Year
David Beatty History Prize
Allison Watson Beveridge Prize
Katherine (Shaw) Bigelow Prize
Biochemistry Prize
Bio Med Society Prize
Birks Medal
David Blackwood Prize
Garland P. Brooks Prize in Psychology
James Noel Brunton Prize
Roger Calkins Prize in Shakespeare Studies
Allison (A.F.D.) Calvert Memorial Award
Mary Ellen (Bronskill) Campbell Award in Fine Arts
Canadian Association of Geographers Undergraduate Award
A.D. Carter Prize
CPA New Brunswick Prize
David Gilchrist Chalmers Memorial Prize
Chancellor's Prize
J.H. Chase Prize
Arthur J. Ebbutt Prize
Amanda Elliott Clark Prize
George T. Clark Prize in Law
Colpitts Prize
Commerce Marketing Prize
Prize of the Consulate General of the Federal Republic of Germany
CPA Certificate of Academic Excellence
Dr. J.E.A. Crake Award in Fine Arts
Dr. J.E.A. Crake Performance Award in Music
Dr. J.E.A. Crake Performance Award in Drama
Crake Foundation W.B. Sawdon Award
W.S.H. Crawford Prize in Math and Computer Science
Deloitte and Touche Prize
David Ebert Memorial Prize
Ernst and Young Prize
Fensom Research Prize
Berkeley Fleming Prize in Sociology
Robert and Margaret Fleming Prize
Laura Gates Award
Michael Gibbens Prize in Finance
Donald T. Goodwin Prize
Governor General's Gold Medal
Governor General's Silver Medal
Graham Atlantic Writing Prize
Graham Memorial Prize
Karen R. Grant Community Engagement Award
M. Colin Grant Book Prize
Grant Thornton Prize
Frances Louise Hickey Prize
Charlie Hunter Award
James Robert Inch Memorial Prize
I.O.D.E. (NB Chapter) Prize
Curtis and Lyle Jarvis Memorial Prize
Allison H. Johnson Prize in Philosophy
KPMG Prize
Henry D. Larsen Prize
Gil Latter Prizes
Hibbert C. Laurence Prize
Alden Leard Memorial Prize
Reverend Stephen Lisson Award
Jack MacAleese Memorial Prize
Bruce I. MacDonald Prize in Physical Geography
Cathy MacDonald-Arsenault Memorial Prize
Gordon Manson Award
Marster Prize for Humour in Art
George Everett Matthews Award
Wendall and Jean Halliday MacKay Award
J. Scott and Patricia McCain Athletics Award
H.W. McKeil (Women's and Gender Studies) Prize
John Wesley McLeod Prize
Margaret Pauline Siddall McMath Prize
Reginald Miller Management Prize
Prize of the Department of Modern Languages and Literatures
J.C. Moore Prize
Mount Allison Conservatory Prize
Music History Essay Prize
N.B.I.C.A. Prize
Ian Newbould Prize in British History
E. George Nichols Prize in Psychology
E. George Nichols Psychology Prize in Animal Behaviour
Dr. Karen Nicholson Psychology Prize
Don Norton Memorial Award
Ogden Memorial Prize
Harold Oxley Prize
Colin Paterson Prize
Ethel Peake Memorial Prize
John Edgar Peters Prize
Muriel Hewson Philp Prize in Drawing
PricewaterhouseCoopers Prize
Province of Quebec in the Atlantic Provinces
Donna L. Purdy Memorial Award
Beth Robinson Award
Jennie Robinson Quinn Prize
W. J. Robinson Prize
Harold Melville Rogers Memorial Prize
R. Ruggles Gates Award
Scotiabank Prize
Kendall Scott Memorial Prize in Chemistry
Murray Sears Memorial Prize
Harry A. Sheffield Prize
Harold W. Simpson Memorial Prize
Dr. A. Smith Prize in Classics
Society of Chemical Industry Student Merit Award
Department of Sociology Prize
Robert L. and Mabel Stailing Prize
Reverend E.R.and Ross Stanway Prize in Philosophy
Harold Chapman and Annalea Steeves Memorial Prize
Frank Strain International Relations Prize
F. A. Surbey Prize in Psychology
Roland F. Surette Prize
Minnie Evans Tait Memorial Prize
Florence Webb Tate Prize
Grace Tomkinson Memorial Prize
Dr. Gordon Treash Prize
Michael J. Tucker Political Science Award
William Morley Tweedie Medal
Tyler Prize
Dr. R.N. Varma Gold Medal in Physics
Women's Studies Prize

Laura Sofia Wood Prize

# 10.12 TRANSCRIPTS

## 10.12.1 Privacy of Transcripts

a) A student's transcript of record is personal information as defined by New Brunswick's Personal Information and Protection of Privacy Act and will only be disclosed to a third party in accordance with the terms of that Act. In most cases, this means that the transcript will not be disclosed without the written consent of the student.

b) Students may request that transcripts be revealed to no one outside the university without written permission.

## 10.12.2 Transcript Requests

a) Students can have their transcripts sent outside the University on payment of a fee. All transcript orders must be placed in writing by the transcript holder. Application forms are available on the Registrar's Office web page.

b) Telephone orders for transcripts cannot be accepted.

c) Partial transcripts are not issued.

d) Those requesting transcripts should be aware that at certain peak periods it may take approximately two weeks to process a transcript order.

# 10.13 REPLACEMENT/DUPLICATE DIPLOMAS

A duplicate or replacement diploma may be requested under the following conditions:

a) If a duplicate is requested, evidence by affidavit or statutory declaration shall be furnished that the diploma has been destroyed or is no longer in existence. If a replacement diploma is requested in a different name from that on the original diploma, the original diploma shall be returned.

b) If the present signing officers are the same as for the original diploma, a new diploma marked DUPLICATE or REPLACEMENT DIPLOMA may be issued.

c) If the signing officers have changed, the duplicate or replacement diploma may be issued, with the original signing officers' names printed in and a note added below to state the diploma is a duplicate or replacement. This note is to be signed by the President.

d) A fee is charged.

# 10.14 NOTIFICATION OF DISCLOSURE OF PERSONAL INFORMATION

## 10.14.1 Statistics Canada

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education. It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrolment demand at postsecondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes'. In order to conduct such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada, student identification information (student's name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrolment information, previous education, and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used for statistical purposes only, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students who do not wish to have their information used can ask Statistics Canada to remove their identifying information from the national database. On request by a student, Statistics Canada will delete an individual's contact information (name, address, or other personal identifiers) from the PSIS database. To make such a request or for further information please contact Statistics Canada by email at: <**PSIS-SIEP_contact@statcan.gc.ca**> or by mail: Institutional Surveys Section, Centre for Education Statistics, Statistics Canada, 150 Tunney's Pasture Driveway, Main Building, 2100-K, Ottawa, Ontario, K1A 0T6

## 10.14.2 Maritime Provinces Higher Education Commission (MPHEC)

The MPHEC collects the data described above on behalf of Statistics Canada. In addition, it archives these data and uses them to generate basic statistics, research products, as well as the sampling frame for its graduate survey. These activities support its mandate, which is to assist institutions and governments in enhancing post-secondary learning environment. The legal authority for these activities is provided by the Maritime Provinces Higher Education Commission Act. The Act also requires that all data received by the Commission is kept confidential, and ensures the protection of personal information. More information about the MPHEC and its Standard for Maintaining Confidentiality may be found at <**www.mphec.ca**>

Regarding those students who do not wish to have their information used, Statistics Canada will notify the MPHEC of any student choosing to have their personal information removed from the national database, and their information will subsequently be removed from the MPHEC's database.

Mount Allison University

# ACADEMIC CALENDAR
# 2016-2017 edition

## Part III: Academic Degrees, Programs and Courses

# 11 ACADEMIC PROGRAMS

This section provides complete outlines of the specific requirements for all degrees and/or certificates, as well as information regarding pre-professional requirements. Students completing a B.Comm., B.Mus. or B.F.A. will find all of their overall degree requirements plus an outline of specific courses required in this section. Students completing B.A. or B.Sc. Minors, Majors or Honours programs should consult the overall degree requirements outlined in this section plus the more specific Minor, Major and Honours requirements listed per program in the Programs/Courses of Instruction section which follows. Those students planning further study in Medicine, Law, Dentistry and other professional programs should consult the information regarding pre-professional requirements at the end of this section and the calendars of professional schools.

11.0 Course Numbering and Credit Values
11.1 General Regulations
11.2 Bachelor of Arts Degree
11.3 Bachelor of Science Degree
11.4 Master of Science Degree
11.5 Bachelor of Commerce Degree
11.6 Bachelor of Music Degree
11.7 Bachelor of Fine Arts Degree
11.8 Certificate of Bilingualism
11.9 Certificat de bilinguisme
11.10 Pre-Professional Requirements
11.11 International Programs

## 11.0 Course Numbering and Credit Values

Each course is identified by a four-digit number, and carries a certain credit value.

The first digit indicates the year in which the course is normally taken.

The second digit sometimes indicates a stream or category of courses within one department.

The third digit specifies a particular course within the department.

The fourth digit indicates the credit value of the course. A 6 credit course extends through Fall and Winter terms and has a fourth digit of zero; a 3 credit course usually lasts one term only and has a fourth digit of one. A few 3 credit courses extend through the Fall and Winter terms and have a fourth digit of three. One credit Music Ensemble courses have a fourth digit of nine and extends throughout both Fall and Winter terms.

**Note:** Both Fall and Winter terms must be completed to obtain credit for full year courses.

Requirements for degree programs are stated in terms of such course numbers and their accumulated credit values. Typically, a degree requires a minimum 120 credits, earned by passing some combination of 6 credit (two term) and 3 credit (one term) courses. A typical Major requires 60 credits; a typical Minor requires 24 credits.

**Note:** A grade of D (D+, D, D-) in any course will be considered a conditional (non-continuing) pass. In order for a course to be used to fulfill prerequisite requirements, a grade of C- or better must be obtained. Otherwise, written permission of the appropriate Department or Program Co-ordinator must be obtained.

In any one year, it is only the University Timetable which specifies which courses are actually being taught that year, and in which terms. **The listing of a course in the calendar is not a guarantee that the course is offered every year.**

## 11.1 GENERAL REGULATIONS

### 11.1.1 Graduating under one calendar

Students with continuous enrolment at the University may elect to graduate under any one calendar in force during their registration subject to the availability of courses with the following exceptions:

a) Students returning after an interval of a year or more will be readmitted under the calendar in force when they return. Where necessary, an Academic Dean, in consultation with the Registrar, will interpret the student's past record in terms of the current curriculum.
b) Students who are more than ten years from the start of their degree and are returning after an interval of a year or more will be readmitted under the calendar in force when they return. The University may have course work completed in previous years reassessed to determine its applicability to the current curriculum and degree program. In some cases students may be required to retake a course for which credit was previously earned. An Academic Dean, in consultation with the Registrar, will interpret the student's past record.

**Note:** This regulation applies only to curriculum changes affecting a student's degree program, as outlined in Section 11.0 - Academic Programs and Section 12.0 - Programs and Courses of Instruction.

### 11.1.2 B.A. and B.Sc. Degree Requirements

The Bachelor of Arts (B.A.) and Bachelor of Science (B.Sc.) degrees achieve a balance of breadth, depth and coherence by including these four features in each student's academic program:

a) The Bachelor's degree requires the completion of 120 credits worth of course work.
b) Six credits must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Sciences, and Science. (see 11.2.2 and 11.3.2)
c) A specified minimum number of credits earned at an advanced level must be included. (see 11.2.3 and 11.3.5)
d) One of the following must be completed: a Major plus a Minor; a Double Major; a General degree of three Minors; or the most specialized degree an Honours program. It is also possible for students to design a program of their own. (See Regulations 11.2.12, 11.2.17, 11.3.15 and 11.3.20)

### 11.1.3 Declaration of Major, Minor, Honours

B.A. and B.Sc. students, in consultation with the designated Program Advisor, must formally declare a Major and a Minor **by the end of the academic session in which they will have achieved third year standing or upon completion of 54 credits** . Students should refer to the specific program requirements of their intended Major or Minor. Those opting to do a Double Major or Triple Minor must, in consultation with the designated Program Advisor, declare their intention **by the end of the academic session in which they will have achieved third year standing or upon completion of 54 credits** . Students can change their choice of program after further consultation

with a Program Advisor. A 'Declaration/Change of Major/Minor' form is available on the Registrar's Office web page.

Those opting to do an Honours Program must declare their intention by **December of the year in which they are registered with third year standing** by completing a 'Declaration of Intention to Pursue Honours' form available on the web.

Students must consult with the Department Head or Program Co-ordinator with respect to application processes and admission criteria.

# 11.2 BACHELOR OF ARTS

## 11.2.1 Requirements for a B.A. Degree

In order to qualify for a Bachelor of Arts degree, a student must complete 120 credits including:

a) 6 credits must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Sciences, and Science, as listed in 11.2.2
b) A minimum of 36 credits from the 3/4000 level
c) One of the following must be completed: a Major plus a Minor; a Double Major; a General degree of three Minors; or the most specialized degree an Honours program. It is also possible for students to design a program of their own, in consultation with an Academic Dean. (See Regulations 11.2.4, 11.2.6, 11.2.7, 11.2.8, 11.2.12, and 11.2.17)

## 11.2.2 Distribution Requirements

Six credits must be earned from each of the following lists:

**Arts and Letters**

Art History
Drama
English
Fine Arts
French Studies
German Studies
Hispanic Studies
Japanese Studies
Linguistics
Music

**Humanities**

Canadian Studies
Classics
Greek
History
Latin
Philosophy
Religious Studies
Women's and Gender Studies

**Social Sciences**

Anthropology
Commerce
Economics
Geography and Environment (GENV)
International Relations
Political Science
Sociology
Women's and Gender Studies

**Science**

Biochemistry
Biology
Chemistry
Computer Science
Geography and Environment (GENS)
Mathematics
Physics
Psychology
Science 1001

**Note:** For distribution requirement purposes, a maximum of 6 credits from Women's and Gender Studies (WGST) courses can be applied to meet the distribution requirements for either Humanities or Social Sciences, or a combination of those two disciplines.

## 11.2.3 3/4000 Level Courses

A minimum of 36 credits must be earned from courses at the 3000 and/or 4000 level. At least 30 credits must be from Mount Allison courses.

## 11.2.4 Credits Required for a Major and Minor

The credits required for a B.A. include those required for a Major [see list under 11.2.13], plus the credits required for a Minor from any other program [see lists under 11.2.18 and 11.3.21]. **No more than 9 credits can be counted in common between the Major and Minor.** Where there are more than 9 credits of requirements in common, the credit value of the combined program will still be at least 15 credits greater than the total for the Major. The Major and Minor are recorded on the student's transcript.

Although the combination of a Major and a Minor as called for in 11.2.4 is the usual means of achieving a B.A. degree, other combinations are possible, as outlined in 11.2.5 through 11.2.8.

## 11.2.5 Additional Minor

Students who satisfy the requirements for more than one Minor will have the additional Minor(s) recorded on their transcript.

## 11.2.6 Double Major

Students who (in lieu of the Minor required in 11.2.4) satisfy the requirements for a second Major from any other program [see lists under 11.2.13 and 11.3.16], will have achieved a B.A. with a Double Major, and will have both Majors recorded on their transcript. **No more than 24 credits can be counted in common between the two Majors** . Even where there are requirements in common, the credit value of the combined program will be at least 36 credits greater than the total for the first Major.

## 11.2.7 Honours Degree

Students who (in lieu of 11.2.4) satisfy the requirements for an Honours degree [see 11.2.19] will have achieved a B.A. with Honours, and will have the Honours program recorded on their transcript.

## 11.2.8 General Degree with Three Minors

Students who (in lieu of 11.2.4) satisfy the requirements for three Minors [see 11.2.14] will have achieved a B.A. General Degree, and will

have this title plus all Minors recorded. A triple Minor will not total fewer than 72 credits, despite requirements in common. Students pursuing this option are reminded that Regulation 11.2.3 must still be fulfilled.

## 11.2.9 The Major as Required for the B.A.

The Major is designed to be approximately one half the course work a student completes toward a B.A. degree, providing the depth and rigour which can be achieved either by work within one discipline or through course work carefully planned under a theme. As called for in 11.2.4, this requirement can be satisfied by completing the courses specified in any one of the named Major listed in 11.2.13, according to one of the options outlined in 11.2.10 through 11.2.12

## 11.2.10 Disciplinary Major

A Disciplinary Major consists of a selection of courses worth 60 credits, with a minimum of 36 and a maximum of 42 credits required from a single discipline or department. This type of Major gains its coherence from the traditional discipline from which it is drawn. Provision is made within each Major for 18 credits, usually drawn from outside the Major discipline, intended to complement and enrich the Major.

## 11.2.11 Interdisciplinary Major

An Interdisciplinary Major consists of a selection of courses worth 60 credits, in most cases. This type of Major gains its coherence from a theme, or approach held in common by its component courses. Such programs are authorized in advance by Senate.

## 11.2.12 Specially Approved Major

A Specially Approved Major consists of a selection of courses worth 60 credits. This type of Major gains its coherence from a carefully thought-out combination of available courses which has not received prior authorization from Senate. **Approval for this type of Major must be obtained from the appropriate Dean, in consultation with the Registrar, by the end of the third year.**

## 11.2.13 Majors Available for the B.A.

For the B.A., the following Majors are available. For a complete list of courses required for each Major, see the appropriate heading under Programs and Courses of Instruction.

**Disciplinary**

Anthropology
Art History
Classical Studies
Commerce
Computer Science
Economics
English
Fine Arts
French Studies
Geography
Hispanic Studies
History
Mathematics
Music
Philosophy
Political Science
Psychology
Religious Studies
Sociology

**Interdisciplinary**

American Studies
Canadian Public Policy
Canadian Studies
Drama
Environmental Studies
International Relations
Modern Languages, Literatures and Cultures
Philosophy, Politics, and Economics

## 11.2.14 The Minor as Required for the B.A.

The Minor is designed to be a minimum number of courses by which a student can achieve a modest sense of coherence in another field of study. As called for in 11.2.4, this requirement can be satisfied by completing the courses specified in any one of the named Minors listed in 11.2.18, (or under 11.3.21) according to one of the options outlined in 11.2.15 through 11.2.17.

## 11.2.15 Disciplinary Minor

A Disciplinary Minor consists of a selection of courses worth 24 credits, at least 6 of which must be completed at the 3000 and/or 4000 level. This type of Minor gains its minimum of coherence from the traditional discipline from which it is drawn.

## 11.2.16 Interdisciplinary Minor

An Interdisciplinary Minor consists of a selection of courses worth 24 credits, at least 6 of which must be completed at the 3000 and/or 4000 level. This type of Minor gains its coherence from a theme, or approach held in common by its component courses. Such programs are authorized in advance by Senate.

## 11.2.17 Specially Approved Minor

A Specially Approved Minor consists of a selection of courses worth 24 credits, at least 6 of which must be completed at the 3000 and/or 4000 level. This type of Minor gains its coherence from a carefully thought-out combination of available courses which has not received prior authorization from Senate. **Approval for this type of Minor must be obtained from the appropriate Academic Dean, in consultation with the Registrar, by the end of the third year.**

## 11.2.18 Minors Available for the B.A.

For the B.A., the following Minors are available along with those listed under section 11.3.21. For a complete listing of courses required for each Minor, see the appropriate heading under Programs and Courses of Instruction.

**Disciplinary**

Anthropology
Art History
Classical Studies
Commerce
Computer Science
Economics
English
Fine Arts

French Studies
Geography
German Studies
Greek
Hispanic Studies
History
Latin
Mathematics
Music
Philosophy
Political Science
Psychology
Religious Studies
Sociology

**Interdisciplinary**

American Studies
Canadian Studies
Drama
Environmental Studies
Geographic Information Systems (G.I.S.)
International Economics and Business
International Politics
Japanese Studies
Women's and Gender Studies

## 11.2.19 Disciplinary and Interdisciplinary Honours Programs

Honours programs represent the most specialized selection of courses to gain depth and coherence within one discipline or thematic area. They have traditionally provided the preparation most appropriate for post-graduate work in that field. The requirements for Honours extend beyond that of the Major, and so the regulation requiring a Minor is waived (see 11.2.4 and 11.2.7), although any student who completes a Minor from another discipline or program, will have this Minor recorded on his or her transcript. Academic regulation 10.10.5 governing the granting of Honours should be consulted. Students considering an Honours Program should consult as early as possible with the designated Program Advisor regarding the prescribed selection of courses.

## 11.2.20 Honours Programs Available for the B.A.

Under the B.A. Degree, the following Honours Programs are available. Each assumes that the student also meets the requirements of 11.2.2 and 11.2.3. For a complete listing of courses required for each Honours Program, see the appropriate heading under Programs and Courses of Instruction.

**Disciplinary**

Anthropology
Classical Studies
Computer Science
Computer Science and Mathematics
Economics
English
French Studies
Geography
History
Mathematics
Music
Philosophy
Political Science
Psychology
Religious Studies
Sociology

**Interdisciplinary**

American Studies
Canadian Studies
Economics and Mathematics
Environmental Studies
International Relations
Modern Languages, Literatures and Cultures

# 11.3 BACHELOR OF SCIENCE

## 11.3.1 Requirements for a B.Sc. Degree

In order to qualify for a Bachelor of Science degree, a student must complete 120 credits including:

a) 6 credits must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Sciences, and Science, as listed in 11.3.2
b) 12 credits must be earned from the Science Core as outlined in 11.3.3
c) 72 Science credits of which a minimum of 30 credits must be from Science courses at the 3/4000 level (see 11.3.4 and 11.3.5)
d) One of the following must be completed: a Major plus a Minor; a Double Major; a General degree of three Minors; or the most specialized degree an Honours program. It is also possible for students to design a program of their own in consultation with the Academic Dean (See Regulations 11.3.6, 11.3.8, 11.3.9, 11.3.10, 11.3.15 and 11.3.20.)

## 11.3.2 Distribution Requirements

Six credits must be earned from each of the following lists:

**Arts and Letters**

Art History
Drama
English
Fine Arts
French Studies
German Studies
Hispanic Studies
Japanese Studies
Linguistics
Music

**Humanities**

Canadian Studies
Classics
Greek
History
Latin
Philosophy
Religious Studies
Women's and Gender Studies

**Social Sciences**

Anthropology
Commerce
Economics

Geography and Environment (GENV)
International Relations
Political Science
Sociology
Women's and Gender Studies

**Note:** Science distribution is fulfilled by Bachelor of Science degree requirements.

**Note:** For distribution requirement purposes, a maximum of 6 credits from Women's and Gender Studies (WGST) courses can be applied to meet the distribution requirements for either Humanities or Social Science, or a combination of those two disciplines.

## 11.3.3 Science Core

Twelve credits must be earned as follows:

a) 6 credits from MATH 1111 or 1151 plus one of MATH 1121, 1251, 2211, 2221 or COMP 1631
b) 3 credits from CHEM 1001 or PHYS 1041 or PHYS 1051
c) 3 credits from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011

## 11.3.4 Minimum Number of Science Credits

A minimum of 72 credits in Science must be earned from the Science disciplines.

## 11.3.5 3/4000 Level Science Courses

A minimum of 30 credits in Science must be earned from the 3000 and/or 4000 level. At least 24 credits must be from Mount Allison courses.

## 11.3.6 Credits Required for a Major and Minor

The credits required for a B.Sc. include those required for a Major [see list under 11.3.16], plus the credits required for a Minor from any other program [see lists under 11.3.21 and 11.2.18]. **No more than 9 credits can be counted in common between the Major and Minor** . Where there are more than 9 credits of requirements in common, the credit value of the combined program will still be at least 15 credits greater than the total for the Major. The Major and Minor are recorded on the student's transcript. Although the combination of a Major and a Minor as called for in 11.3.6 is the usual means of achieving a B.Sc., other combinations are possible, as outlined in 11.3.7 through 11.3.10.

## 11.3.7 Additional Minor

Students who satisfy the requirements for more than one Minor will have the additional Minor(s) recorded on their transcript.

## 11.3.8 Double Major

Students who (in lieu of the Minor required in 12.3.6) satisfy the requirements for a second Major from any other program [see lists under 11.3.16 and 11.2.13] will have achieved a B.Sc. with a Double Major, and will have both Majors recorded on their transcript. **No more than 24 credits can be counted in common between the two Majors** . Even where there are requirements in common, the credit value of the combined program will be at least 36 credits greater than the total for the first Major.

## 11.3.9 Honours Degree

Students who (in lieu of 11.3.6) satisfy the requirements for an Honours degree [see 11.3.22] will have achieved a B.Sc. with Honours, and will have the Honours program recorded on their transcript.

## 11.3.10 General Degree with Three Minors

Students who (in lieu of 11.3.6) satisfy the requirements for three Minors, at least two of which must be in Science (see 11.3.17) will have achieved a B.Sc. General Degree, and will have this title plus the three (or more) Minors recorded on their transcript. A triple Minor will not total fewer than 72 credits, despite requirements in common. Students pursuing this option are reminded that Regulations 11.3.4 and 11.3.5 must still be fulfilled.

## 11.3.11 Courses which Qualify as Science Credits

For purposes of Regulation 11.3.4 and 11.3.5 only, all courses offered in the following disciplines are considered as Science credits: Biochemistry, Biology, Chemistry, Computer Science, Mathematics, Physics, and Psychology. The following courses outside of these disciplines may also count as Science credits: COMM 3411, ECON 3301, 3821, 4700, 4801, 4811, all GENS courses from the Department of Geography and Environment, PHIL 2511, 3511.

**Note:** Commerce, Economics and Philosophy courses listed here cannot be used to fulfill Science distribution requirements in 11.2.2 and 11.3.2.

## 11.3.12 The Major As Required for the B.Sc.

The Major is designed to be approximately one half the course work a student completes toward a B.Sc. degree, providing the depth and rigour which can be achieved either by work within one discipline or through course work carefully orchestrated under a theme. As called for in 11.3.6, this requirement can be satisfied by completing the courses specified in any one of the named Major in Science listed in 11.3.16, according to one of the options outlined in 11.3.13 through 11.3.15.

## 11.3.13 Disciplinary Major

A Disciplinary Major in Science consists of a selection of courses worth 60 to 72 credits, with a minimum of 36 and a maximum of 42 credits required from a single discipline or department. This type of Major gains its coherence from the traditional discipline from which it is drawn. Provision is made within each Major for credits under 11.3.3.

## 11.3.14 Interdisciplinary Major

An Interdisciplinary Major consists of a selection of courses worth 60 to 84 credits. This type of Major gains its coherence from a theme, or approach held in common by its component courses. Such programs are authorized in advance by Senate.

## 11.3.15 Specially Approved Major

A Specially Approved Major consists of a selection of courses worth 60 to 72 credits. This type of Major gains its coherence from a carefully thought out combination of available courses which has not received prior authorization from Senate. **Approval for this type of Major must be obtained from the appropriate Academic Dean, in consultation with the Registrar, by the end of the third year.**

## 11.3.16 Majors available for the B.Sc.

For the B.Sc., the following Majors are available. For a complete listing of courses required for each Major, see the appropriate heading under Programs and Courses of Instruction.

**Disciplinary**

Biology
Chemistry
Computer Science
Mathematics
Physics
Psychology

**Interdisciplinary**

Aviation
Biochemistry
Cognitive Science
Environmental Science

## 11.3.17 The Minor as Required for the B.Sc.

The Minor is designed to be a minimum number of courses by which a student can achieve a modest sense of the coherence in another field of study. As called for in 11.3.6, this requirement can be satisfied by completing the courses specified in any one of the named Minors listed in 11.3.21 (or under 11.2.18), according to one of the options outlined in 12.3.18 through 11.3.20.

## 11.3.18 Disciplinary Minor

A Disciplinary Minor consists of a selection of courses worth 24 credits, at least 6 credits of which must be completed at the 3000 and/or 4000 level. This type of Minor gains its minimum of coherence from the traditional discipline from which it is drawn.

## 11.3.19 Interdisciplinary Minor

An Interdisciplinary Minor consists of a selection of courses worth 24 credits, at least 6 credits of which must be completed at the 3000 and/or 4000 level. This type of Minor gains its coherence from a theme, or approach held in common by its component courses. Such programs are authorized in advance by Senate.

## 11.3.20 Specially Approved Minor

A Specially Approved Minor consists of a selection of courses worth 24 credits, at least 6 of which must be completed at the 3000 and/or 4000 level. This type of Minor gains its coherence from a carefully thought out combination of available courses which has not received prior authorization from Senate. **Approval for this type of Minor must be obtained from the appropriate Academic Dean, in consultation with the Registrar, by the end of the third year.**

## 11.3.21 Minors Available for the B.Sc.

For the B.Sc., the following Minors are available along with those listed under 11.2.18. For a complete listing of courses required for each Minor, see the appropriate heading under Programs and Courses of Instruction.

**Disciplinary**

Applied Physics
Biology
Chemistry
Computer Science
Mathematics
Physics
Psychology

**Interdisciplinary**

Astronomy
Biochemistry
Environmental Science
Geographic Information Systems

## 11.3.22 Disciplinary and Interdisciplinary Honours Programs

Honours programs represent the most specialized selection of courses to gain depth and coherence within one discipline or thematic area. They have traditionally provided the preparation most appropriate for post-graduate work in that field. The requirements for Honours extend beyond that of the Major, and so the regulation requiring a Minor is waived (see 11.3.6 and 11.3.9), although any student who completes a Minor from another discipline or program will have this Minor recorded on his or her transcript. Academic regulation 10.10.5 governing the granting of Honours should be consulted. Students considering an Honours Program should consult as early as possible with the designated Program Advisor regarding a prescribed selection of courses.

## 11.3.23 Honours Programs Available for the B.Sc.

Under the B.Sc. Degree, the following Honours Programs are available. Each assumes that the student also meets the requirements of 11.3.2 through 11.3.5. For a complete listing of courses required for each Honours Program see the appropriate heading under Programs and Courses of Instruction.

**Disciplinary**

Biology
Chemistry
Computer Science and Mathematics
Mathematics
Physics
Psychology

**Interdisciplinary**

Biochemistry
Environmental Science
Mathematics and Physics

# 11.4 MASTER OF SCIENCE

Graduate work is approved for the Departments of Biology and Chemistry & Biochemistry. A Specially Approved Master of Science degree may be recommended by the Committee on Graduate Studies for a program of graduate study beyond the two listed programs in Biology and Chemistry & Biochemistry. Any specially approved program shall conform to all requirements listed in this section of the Academic Calendar.

## 11.4.1 Committee on Graduate Studies

All graduate work is under the general supervision of the Committee on Graduate Studies. Upon receiving recommendations from the Department concerned, the Committee will decide upon admission, program of study, and on receipt of satisfactory evidence of the

completion of the studies, will recommend concerning the award of the degree.

## 11.4.2 Minimum Admission Requirements

a) A four-year Bachelor's degree with research experience in the intended field of study or its equivalent from a University of recognized standing (mature students will be given special consideration); and
b) Two letters of reference
c) A letter of support from the proposed Mount Allison supervisor including the duration, amount, and source of any financial support offered to the student

## 11.4.3 Time Required

a) The minimum time from admission to a graduate studies program to defense of the thesis is three academic terms.
b) The normal time from admission to a graduate studies program to defense of the thesis is seven academic terms for a full-time student and eleven academic terms for a part-time student.
c) If extenuating circumstances prevent a student from completing a graduate studies program within the normal period specified, the Dean of Graduate Studies may grant an extension of up to one academic term.

## 11.4.4 Course and Thesis Requirements

a) All candidates must:
   i) complete a minimum of two to a maximum of four 3 credit graduate courses as determined by the Graduate Studies Committee upon advice from the supervisory committee;
   ii) complete a research program and a thesis based on this research; and
   iii) participate in a departmental seminar series.
b) Within three months of a student's admission to the program, the supervisory committee will:
   i) formulate a list of the number and type of graduate courses for that candidate; and
   ii) forward this list to the Graduate Studies Committee for approval.
c) When a department intends to offer a graduate studies course, it must submit course information at least one month in advance to the Dean of Graduate Studies for approval.
d) The format of the written thesis will follow the rules for graduate theses as described in the graduate handbook.
e) Copies of the thesis must be made available to the members of the candidate's Examining Committee at least three weeks prior to its defense.

## 11.4.5 Standards of Achievement

The candidate must achieve a grade of at least B- in each course required for the degree, and also must pass a public oral examination on the thesis and related material.

## 11.4.6 Supervisory Committee

A committee of three will be appointed for each candidate by the Graduate Studies Committee on the recommendation of the research supervisor who will be its chair, a teaching member of the department concerned, and a qualified person from outside that department or within the department if more appropriate. It will be the responsibility of this committee to review periodically the progress of the candidate, read the thesis and conduct the oral examination which will be presided over by the Chair of the Graduate Studies Committee or designate. The Thesis Examining Committee will also include an external reader who has had no involvement in the project. A grade of 'Pass' or 'Fail' will be assessed for the thesis and its defense by the candidate's committee. (The Chair of the Graduate Studies Committee has no vote in this decision). If a 'Fail' evaluation is rendered, the supervisory committee will decide if and what remedial measure must be undertaken to obtain a 'Pass' grade. The candidate will have six months to meet these conditions.

## 11.4.7 Application Procedure

Candidates should submit a completed application form, curriculum vitae, a set of official transcripts, and arrange to have two letters of reference forwarded to the office of the Dean of Graduate Studies. Applicants are also expected to contact potential supervisor(s) about the possibility of carrying on advanced study and research with them prior to application.

## 11.4.8 Master of Science Course Listing

**MSCI 5101/5201/5301/5401 (3.00 CR)**
**GRADUATE STUDIES I**
**Format:** Variable
**Prereq:** Registration in the M.Sc. program and permission of the Graduate Studies Committee

**MSCI 5111/5211/5311/5411 (3.00 CR)**
**GRADUATE STUDIES II**
**Format:** Variable
**Prereq:** Registration in the M.Sc. program and permission of the Graduate Studies Committee

**MSCI 5121/5221/5321/5421 (3.00 CR)**
**GRADUATE STUDIES III**
**Format:** Variable
**Prereq:** Registration in the M.Sc. program and permission of the Graduate Studies Committee

**MSCI 5131/5231/5331/5431 (3.00 CR)**
**GRADUATE STUDIES IV**
**Format:** Variable
**Prereq:** Registration in the M.Sc. program and permission of the Graduate Studies Committee

**MSCI 5990**
**GRADUATE THESIS**
**Format:** Independent Study/Thesis
**Prereq:** Registration in the M.Sc. program

# 11.5 BACHELOR OF COMMERCE

## 11.5.1 Primary Objective

The primary objective of the Mount Allison University Commerce program is to explore with students the nature of the business world, and thus help them acquire administrative knowledge and skills. Studies

focus on the process of effective problem solving and decision making in the business environment through the development of management systems which combine quantitative analysis and human judgement. The Commerce program is designed to enable students to take courses in a variety of business subject areas (such as Accounting, Finance, Marketing) while completing a Minor in a non-Commerce discipline. The Commerce degree at Mount Allison University is highly flexible, reflecting the diverse business society that students will enter after graduation.

## 11.5.2 Requirements for a Bachelor of Commerce Degree

In order to qualify for a Bachelor of Commerce degree, a student must complete 120 credits including:

a) 6 credits earned in each of the two distribution areas of Arts and Letters and Humanities (see 11.5.3)
b) A minimum of 42 credits from the 3/4000 level (see 11.5.4)
c) 42 credits from the Commerce Degree Core Program requirements as listed in 11.5.5
d) 27 additional Commerce elective credits, with at least 24 credits from 3/4000 level courses (see 11.5.6)
e) Courses which satisfy the requirements of a Minor (see 11.5.7) *Note: this requirement is waived for students pursuing Honours in Economics*
f) Elective credits with no more than 9 from Commerce courses (see 11.5.8)

## 11.5.3 Distribution Requirements

Six credits must be earned from each of the following lists:

**Arts and Letters**

Art History
Drama
English
Fine Arts
French Studies
German Studies
Hispanic Studies
Japanese Studies
Linguistics
Music

**Humanities**

Classics
Canadian Studies
Greek
History
Latin
Philosophy
Relgious Studies
Women's and Gender Studies

Note: Social Science and Science distributions are fulfilled by Bachelor of Commerce degree requirements.

## 11.5.4 3/4000 Level Courses

A minimum of 42 credits must be earned from courses at the 3000 and/or 4000 level. At least 36 credits must be from Mount Allison courses.

## 11.5.5 Commerce Degree Core Requirements

The Commerce Degree Core Requirements are 42 credits earned as follows:

24 credits from Commerce 2101, 2131, 2201, 2301, 3411, 3501, 4311, 4321
3 credits from Mathematics 1111, 1151
6 credits from Economics 1001 and 1011
3 credits in Computer Science
6 credits from Mathematics 2311 and 2321
OR Psychology 2001 and 2011

## 11.5.6 Commerce Electives on the Bachelor of Commerce Degree

In addition to the Commerce courses required for the Core, 27 credits from Commerce elective courses are required with at least 24 credits from 3/4000 level courses. All Commerce courses other than those in the Core of the program (see 11.5.5), as well as the following courses from other disciplines may also be counted as Commerce electives: Economics 3201, 3211, 3301, 3601, 3711, 3921, 4111, 4501, 4511, 4621, 4700, 4801, 4811, 4821, 4990, Computer Science 3851.

## 11.5.7 The Minor as Required for the Bachelor of Commerce

All Bachelor of Commerce students must complete a Minor in a non-Commerce discipline from the list below or a Specially Approved Minor (see 11.2.17). No more than 9 credits can be counted in common between the Minor and the courses counted in 11.5.5 and 11.5.6. Where there are more than 9 credits of requirements in common, the credit value of the combined program requirements will still be at least 84 credits. The Minor will be recorded on the transcript. Students who satisfy the requirements for more than one Minor will have the additional Minor(s) recorded on their transcript.

*Note: the regulation requiring a Minor is waived for students pursuing Honours in Economics.*

Minors Available for the Bachelor of Commerce

**Disciplinary**

Anthropology
Art History
Biology
Chemistry
Classical Studies
Computer Science
Economics
English
Fine Arts
French Studies
Geography
German Studies
Greek
Hispanic Studies
History
Latin
Mathematics
Music
Philosophy

Physics
Political Science
Psychology
Religious Studies
Sociology
Women's and Gender Studies

**Interdisciplinary**

American Studies
Canadian Studies
Drama
Environmental Studies
Geographic Information Systems (GIS)
International Economics and Business
International Politics
Japanese Studies

## 11.5.8 Elective Credits

The remaining credits beyond those completed to fulfill 11.5.3, 11.5.5, 11.5.6 and 11.5.7 may be from any discipline. No more than 9 credits, or 12 credits with COMM 1011, beyond those included in 11.5.5 and 11.5.6 may be from courses in the Commerce discipline. (A maximum of 60 credits, or 63 credits including COMM 1011, from courses in the Commerce discipline is permitted to count toward the 120 credits required for a Bachelor of Commerce degree.)

## 11.5.9 Honours Programs Available for the Bachelor of Commerce

Students who satisfy the requirements for an Honours program [see section 11.5.10, 11.5.11] will have achieved a Bachelor of Commerce with Honours, and will have the Honours program recorded on their transcript. Students with third year standing interested in pursuing Honours must apply to the Commerce Department by March 31, in the year in which they will have completed at least 84 credits. Students interested in pursuing Honours in Economics should contact the Economics Department. Academic regulation 10.10.5 governing the granting of Honours should be consulted. In addition to the prescribed Honours courses listed in 11.5.10 and 11.5.11, students must fulfill the general requirements for a Bachelor of Commerce degree as listed in 11.5.2. a), b), e), and f).

## 11.5.10 Commerce with Honours

Honours in Commerce is 69 credits earned as follows:

42 from the Commerce core requirements (see 11.5.5)
6 from Commerce 4990
21 from Commerce electives at the 3/4000 level

## 11.5.11 Commerce with Honours in Economics

Honours in Economics is 90 credits earned as follows:

42 from the Commerce core requirements (see 11.5.5)
12 from Economics 2001, 2011, 2101, 2111
12 from Economics 4001, 4011, 4700, 4801, 4811, 4821, 4990
12 from Economics at the 3/4000 level
12 from Commerce or Economics at the 3/4000 level

*Note: the regulation requiring a Minor is waived for students pursuing Honours in Economics*

## 11.5.12 Major from Other Disciplines

Students who, in lieu of 11.5.7, complete a Major in a non-Commerce discipline as listed in 11.2.13 and 11.3.16 will have the Major recorded on their transcript. No more than 24 credits can be counted in common between the major and the courses counted in 11.5.5 and 11.5.6. Where there are more than 24 credits of requirements in common, the credit value of the combined program requirements will still be at least 105 credits. Students who satisfy the requirements for a Specially Approved Major (see 11.2.12) will have that Major recorded on their transcript.

## 11.5.13 Transferring to Commerce

Students with second year standing applying for transfer into the Bachelor of Commerce program must do so by APRIL 15 in the year in which they will have completed at least 54 credits. Exceptions must be approved by the Head of the Commerce Department. To be eligible to transfer to the Bachelor of Commerce, students must meet the following two criteria:

a) the attainment of a CGPA of at least 2.0
b) completion of the following 27 credits:

12 credits from Mathematics 1111 or MATH 1151, Economics 1001 and 1011, 3 credits in Computer Science

15 credits from Commerce 2101, 2131, 2201, 2301, 6 credits from Mathematics 2311 and 2321 OR Psychology 2001 and 2011

# 11.6 BACHELOR OF MUSIC

The Department of Music offers instruction leading to both the Bachelor of Music degree (B.Mus.) and the Bachelor of Arts in Music. The former is professionally oriented, whereas the latter (B.A. Major or Honours in Music) is designed for the student with a more general interest in music. A Minor in Music is available to students in any program. The Bachelor of Music degree is offered without designated majors, and allows the student considerable latitude to put emphasis on any of the subject areas: Music Theory and Composition; Music History and Literature; Music Education and Performance. It is designed to develop well-rounded musicians in practical, theoretical, and historical areas, as well as to provide a sound education in the liberal arts. This versatility of approach is in keeping with the wide-ranging demands which are placed on the musician of today.

## 11.6.1 Financial Assistance

Students applying for studies in Music are eligible for University general entrance scholarships in addition to those specifically established for students in Music. For detailed information, refer to Section 5, Financial Assistance.

## 11.6.2 Entrance Requirements for the Bachelor of Music Degree

a) Each prospective student must meet the general admission requirements of Mount Allison.
b) In addition, all prospective Bachelor of Music students must appear for an audition-interview as part of the application for admission. See the Department's website for detailed audition requirements for each instrument. Vocalists and instrumentalists may either provide

their own pianist or have one provided by the University for a nominal fee. In addition, each applicant will be asked to write a one-hour Entrance Assessment. This Assessment is designed to reflect the applicant's background and perception in aural skills, written theory, and musical terms, and will determine placement in either MUSC 1001 or 1101. If the applicant cannot arrange to come to Sackville for a personal audition, an audition recording may be sent directly to the Department of Music, and an Entrance Assessment will be sent upon request to the applicant's teacher to be administered by him or her.

c) Prospective students should see the Department's website or contact the Department of Music directly for information about audition dates.

## 11.6.3 Requirements for Bachelor of Music Degree

In order to qualify for a Bachelor of Music Degree, a student must complete 120 credits including:

a) 58 credits from the following required core:
   i) 48 credits from MUSC 1101, 1111, 1201, 1211, 1703, 2101, 2111, 2201, 2211, 2703 and MUSC 1501, 1511, 2501, 2511, 3501, 4501
   ii) 3 credits from MUSC 3511, 3581; and 3 credits from MUSC 4511, 4581, 4591
   iii) 4 credits from MUSC 1619-4619, 1639-4639, 1659-4659, 1669-4669, 2679-4679
b) 33-36 credits from the following Music electives:
   i) Theory and Composition (MUSC 2141, 2151, 3121, 3141, 3151, 3161, 4181)
   ii) Music History and Literature (MUSC 2021, 3001, 3201, 3221, 3231, 3261, 3271, 3281, 4221)
   iii) Music Education (MUSC 3301, 3311, 3321, 3331, 3341, 3351, 4311, 4361)
   iv) Performance Electives (MUSC 1521, 1601, 2603, 2613, 3401, 3411, 3421, 3603, 3613, 3801, 4603, 4613, 4803 and MUSC 1619-4619, 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 2679-4679, 1689-4689)
   v) General Music Electives (MUSC 1991, 2991, 3991, 4991, 4951; these courses may be repeated if topics differ); COMM 3271, 4301; PHYS 1401
c) 27-30 non-Music electives

**Note:** All piano and organ students registered for MUSC 1501 must also take MUSC 1601.

**Note:** All voice students must complete MUSC 1521 in the course of their degree. It is recommended that this course be completed within the first two years of study.

**Note:** Students who choose to take zero, one, or three ensembles as part of their Music electives will have to complete a total of 121 credits to qualify for their Bachelor of Music degree.

**Note:** Performance Electives may be offered in one term only or over two terms. Please consult the timetable for specific information.

**Note:** COMM 3271, 4301, and PHYS 1401 may be used toward the degree either as general music electives or as non-Music electives.

## 11.6.4 Music Ensembles

All B.Mus. students must participate in a core ensemble during every year in which they are registered for an Applied Music or Recital course. The core ensemble will normally be determined by the Applied Music instructor in consultation with the student and the Ensemble Directors, and will be chosen to suit the student's interests and developmental needs, and the requirements of the ensemble program. All music ensembles run for two terms and are valued at one credit per year of participation. B.Mus. students may complete up to three elective ensemble credits in addition to their required core ensemble credits, for a maximum of seven on their degree. Students in all other degree programs are eligible to complete up to six credits on their degree through ensemble participation.

The following may be taken for core ensemble credit; they may additionally be taken for elective credit: 1619-4619 Wind Ensemble; 1639-4639 Symphonic Band; 1659-4659 Elliott Chorale; 1669-4669 Choral Society; 2679-4679 Opera Workshop (not open to first-year students). The following may only be taken for elective ensemble credit: 1629-4629 Chamber Orchestra; 1649-4649 Jazz Ensemble; 1689-4689 Special Ensemble. All ensembles are valued at 1 credit per year of participation.

Attendance and prompt arrival at all ensemble rehearsals and participation in all public performances are mandatory unless prior consent of the Director of the ensemble has been obtained. Preparedness for and active participation in rehearsals and performances, as well as regular attendance, are principal factors in the determination of the grade that the student will receive. The details of the application of this policy will be provided by Ensemble Directors at the beginning of each academic year.

## 11.6.5 Recitals

In addition to performing in Collegium programs, qualified students are given the opportunity to present credited full-length and shared solo recitals. These courses replace 3rd and 4th year applied courses as follows:

MUSC 3511 is replaced by MUSC 3581

MUSC 4511 is replaced by either MUSC 4581 or MUSC 4591

To be eligible to present a shared recital (MUSC 3581 and 4581), a student must be recommended by his/her Applied Music instructor; must normally have achieved a grade of at least A- in MUSC 2511 or 3511; must have participated in two Collegia, or the equivalent, since enrolling in the Bachelor of Music program; and must pass a Recital Application Jury.

To be eligible to present a full recital (MUSC 4591), a student must be recommended by his/her Applied Music instructor; must normally have achieved a grade of at least A- in MUSC 3581; and must pass a Recital Application Jury.

# 11.7 BACHELOR OF FINE ARTS

The Department of Fine Arts, located in the Purdy Crawford Centre for the Arts Building, offers a unique opportunity for professional training in the Fine Arts in conjunction with all the benefits of a university campus. These include the stimulus of a broad intellectual environment, the facilities of a good library and a balanced program of social activities.

## 11.7.1 The Bachelor of Fine Arts Degree

The curriculum in Fine Arts leading to the degree of Bachelor of Fine Arts is primarily intended to develop creative ability in drawing, painting, photography, printmaking and sculpture. The major part of

the program consists of studio work, and includes instruction in the principles of design and the use of various media. In addition to the studio classes, attention is given to the artist's heritage through illustrated lectures and seminar courses in art history which are designed to improve the student's artistic judgement and assist in acquiring an ability to write and speak about works of art. Academic electives, which are chosen in consultation with the Fine Arts Department, are taken in other departments of the University. They are included in the curriculum with the aim of widening the student's understanding of the world, in the belief that the artist's domain pertains to all aspects of human endeavour.

## 11.7.2 Additional Admission Requirements

Each prospective student must meet the regular admission requirements of the University. While the course is designed so that it assumes no previous training on the part of the new student, applicants must give evidence of their suitability for work in this specialized field. Applicants are required to present a portfolio of their previous art work for assessment prior to admission to this program. Instructions for the submission of this portfolio will be sent to all applicants for admission to the program or can be found on the Fine Arts website. All portfolios are reviewed each year in February and late portfolios cannot be considered. Only a limited number of students can be accepted to the program.

## 11.7.3 Advanced Status

A student may be admitted to the second year of the program provided full entrance requirements are met and if the applicant presents evidence of having satisfactorily completed work, academic and artistic, equivalent to the prescribed work of the first year.

## 11.7.4 Requirements for the Bachelor of Fine Arts Degree

The Bachelor of Fine Arts is a four-year, 120-credit degree. The program is designed with maximum flexibility to allow student growth within various studio art study fields. The common first year of the program is followed in years two to four by various studio art options.

a) A student who fails any studio course will not be allowed to take further courses in that studio area until the failed course is completed satisfactorily.
b) In either the third or fourth year of the program students are required to travel to a major North American art centre (e.g. Boston, New York, Montreal/Ottawa), in the company of one or more professors, as part of a class field trip for the purpose of study and research at art museums and galleries.

**Year One:**

a) 18 Studio Art credits - Fine Arts 1101, 1111, 1901, 1911, 1921, and 1931
b) 6 credits from FINA 2001, FINA 2011, FINH 2001, FINH 2011, FINH 2101, FINH 2111
c) 6 credits from outside of Fine Arts

**Year Two:**

a) Fine Arts 2101 and 2111
b) 12 additional studio credits selected from Fine Arts 2201, 2211, 2301, 2311, 2401, 2411, 2501, 2511
c) 6 credits from 3/4000 level Fine Arts History courses or from Classics 3601, 3611, 3701 or 3711, English 3621, French 2801, German 2701, History 4001, Philosophy 2401
d) 6 credits from outside of Fine Arts (Classics 3601, 3611, 3701 or 3711, English 3621, French 2801, German 2701, History 4001, Philosophy 2401 excluded)

**Year Three:**

a) 15 studio credits from Fine Arts 3101, 3111, 3201, 3211, 3301, 3311, 3401, 3411, 3501, 3511, 3601, 3611
b) Fine Arts 3701 - Third Year Seminar
c) 6 credits from 3/4000 level Fine Arts History courses or from Classics 3601, 3611, 3701, 3711, English 3621, French 2801, German 2701, History 4001, Philosophy 2401
d) 6 credits from outside of Fine Arts (Classics 3601, 3611, 3701, 3711, English 3621, French 2801, German 2701, History 4001, Philosophy 2401 excluded)

**Year Four:**

a) 12 studio credits - Fine Arts 4801, 4811, 4821, 4831
b) 3 additional credits from 2/3000 level studio courses
c) Fine Arts 4701 - Fourth Year Seminar
d) 6 credits from 3/4000 level Fine Arts History courses or from Classics 3601, 3611, 3701, 3711, English 3621, French 2801, German 2701, History 4001, Philosophy 2401
e) 6 credits from outside of Fine Arts (Classics 3601, 3611, 3701, 3711, English 3621, French 2801, German 2701, History 4001, Philosophy 2401 excluded)

## 11.7.5 Entrance Scholarship

The E.B. Pulford Scholarship is normally awarded to the top incoming B.F.A. student, based on portfolio assessments.

# 11.8 CERTIFICATE OF BILINGUALISM

Mount Allison students who can demonstrate a high level of competence in both of Canada's official languages may qualify for a Certificate of Bilingualism. The Certificate, which is awarded upon graduation, attests to the student's ability to speak, understand, and write English and French with ease and proficiency. The formal recognition afforded by the Certificate could prove particularly valuable to graduates seeking employment in the many business and government careers where knowledge of both French and English is a requirement or an asset. Any student may apply to be examined for the Certificate, whether or not she or he has taken French or English courses at Mount Allison. The Department of Modern Languages and Literatures administers the Certificate program and any inquiries should be directed to the Department.

## 11.8.1 Information and Regulations

Candidates may be of any linguistic background. Candidates must make formal application to take the tests no later than the end of the first term of their final year. Candidates will be examined in both French and English in the areas of listening, speaking, reading and writing. The examinations are comprehensive, and may include writing letters and essays or translations; reading literary or other complex texts; and conversation or oral discussion. There is no prescribed sequence of courses in either language leading to the examination for the Certificate.

Candidates are invited to profit from the many possibilities offered by the University to improve their language skills.

### 11.8.2 Standards

Candidates must demonstrate their ability in both languages to:

a) follow and understand broadcasts, films and lectures,
b) understand the main ideas of a complex text (book, article, report) without using a dictionary, and also to understand such a text thoroughly in a reasonable amount of time with the use of a dictionary,
c) write a letter or report that is free of grammatical and stylistic errors,
d) participate in conversation by expressing complex ideas, developing an argument, and answering questions.

## 11.9 CERTIFICAT DE BILINGUISME

Les étudiants de Mount Allison capables de montrer qu'ils possèdent une bonne connaissance des deux langues officielles du Canada peuvent se présenter au concours du Certificat de bilinguisme. Ce certificat décerné lors de la remise des diplômes, fait foi que les étudiants ont démontré leur capacité de lire, d'écrire, de parler et de comprendre le français et l'anglais avec facilitié et correction. L'attestation officielle que représente le Certificat pourrait s'avérer utile aux diplômés se proposant de poursuivre une carrière dans la fonction publique ou dans les affaires, où la connaissance de l'anglais et du français est exigée ou souhaitable. Tous les étudiants peuvent s'inscrire au concours, qu'ils aient suivi ou non des cours de français ou d'anglais à Mount Allison. Les candidats sont invités à s'adresser au Département de langues et littératures modernes, qui administre le Certificat de bilinguisme.

### 11.9.1 Renseignements

Le concours est ouvert à tous les étudiants, quelle que soit leur langue maternelle. Les candidats sont priés de s'inscrire au concours au plus tard en décembre de leur année terminale à Mount Allison. Tous les candidats devront passer un examen qui consistera à écouter, parler, lire et écrire en français et en anglais. Il s'agit d'un examen d'ensemble, qui pourra comprendre la rédaction de lettres, d'essais ou de traductions; la lecture de textes littéraires ou techniques; et la participation à une conversation ou à une discussion. La préparation du Certificat n'est sujette à aucune série préétablie de cours. Les candidats sont toutefois encouragés à profiter des nombreuses possibilitiés dont on dispose à Mount Allison pour l'acquisition des deux langues officielles du Canada.

### 11.9.2 Niveaux Requis

Les candidats doivent démontrer, dans les deux langues, qu'ils sont capables:

a) de suivre et de comprendre des émissions radiophoniques, des films, des conférences,
b) de comprendre sans dictionnaire, les idées principales d'un texte complexe (livre, article, compte rendu); et de comprendre à fond le même genre de texte avec l'aide d'un dictionnaire dans une période de temps raisonnable,
c) d'écrire une lettre ou un compte-rendu sans fautes de grammaire et sans erreurs de style,
d) de prendre part à une conversation en exprimant des idées complexes, en élaborant et en développant un raisonnement, et en répondant à des questions.

## 11.10 PRE-PROFESSIONAL REQUIREMENTS

A degree from Mount Allison, or a few carefully selected courses or electives as part of a Mount Allison degree, may permit a student admission to a professional program. Some of these programs include medicine, dentistry, pharmacy, veterinary medicine, law, education, theology, social work, audiology and speech, occupational therapy, physiotherapy, optometry, architecture and nutritional programs as well as many others. These professional programs may be accessed upon successful completion of courses and/or a degree from Mount Allison and in combination with other requirements as appropriate (e.g. LSAT, MCAT, GRE, etc.). All students contemplating applying to professional programs should consult the academic calendars of the schools involved carefully and should be aware of any standardized tests required. Interested students should consult the Academic and Career Counsellor for advice on course selection and the process to enter these professional programs after their undergraduate career at Mount Allison.

## 11.11 INTERNATIONAL PROGRAMS

### 11.11.1 Study Abroad and Exchange Programs

Students can add an international dimension to their university degree by participating in one of Mount Allison's many study-abroad and exchange programs. Most programs allow qualified students to complete a period of study at/through a partner institution for which students can be assessed for transfer of credit. To be considered for participation in one of these programs, students must be in Good Standing. In most cases, selection of participants is competitive and preference is given to students who have a GPA of at least 2.5 and who will be in their third year of study while away from Mount Allison. Some programs have further specific criteria (such as language requirements). Students are encouraged to consult with staff in the International Centre for more information about programs, requirements, and application procedures.

Mount Allison currently has partnerships with:

Bilkent University, Turkey
Bowling Green State University, USA
City University of Hong Kong, Hong Kong Special Administrative Region (China)
Eberhard-Karls-Universität (Tübingen), Germany
Fudan University, China
Georgia Southern University, USA
The Hague University of Applied Sciences, The Netherlands
Killam Fellowship, USA
Kwansei Gakuin University, Japan
Mid Sweden University, Sweden
Norwegian School of Management and Norwegian School of Marketing, Norway
University of Otago, New Zealand
Phillips Universität Marburg, Germany
Senshu University, Japan
Universidad de Extremadura, Spain
University of Limerick, Ireland
University of Newcastle, Australia
University of Southern Denmark, Denmark
Université de Strasbourg, Strasbourg, France
University of Stirling, Scotland
University of Tasmania, Australia
Waseda University, Japan

Mount Allison also offers the following short-term study-abroad programs

Cross-Cultural College, Japan (in partnership with Queen's, University of Toronto, and KGU)
Summer Studies in India Program
Paris Summer Field School
Seville Summer Field School
Archaeological Field Studies at San Felice (Italy)
Washington Center for Academic Internships, Washington, D.C.

## 11.11.2 MASSIE PROGRAM

The MASSIE Program (Mount Allison Semester Studies in English) offers an on-campus, full-immersion language experience for visiting students from partner universities. It allows students the opportunity to live and study in an English environment for one semester or less and receive academic credit at their home university. Students live in residence, are matched with Mount Allison conversation partners, and are fully integrated into all aspects of campus life. Students in the MASSIE program follow a specialized English curriculum that creates a rich learning environment so that their knowledge of English, their fluency in using English and their confidence in their ability to function in another language and society are all strengthened. Field trips and activities serve to introduce students to the history, culture and geography of Atlantic Canada. A volunteer component provides participants and community members with opportunities for hands-on learning and cross-cultural connections. Since the program's beginning in 2000, the program has had more than 1000 participants from Japan and has had over 1000 Mount Allison students as volunteers for the program. The MASSIE program has three sessions: summer, fall and winter. The summer and fall MASSIE programs are 15 week, full semester programs. The winter program is an intensive 6-week session that currently receives student from two partner universities: Toyo-Eiwa University and Kwansei Gakuin University.

## 11.11.3 Academic Credit for Independent Experiential Learning

Academic credit may be awarded for certain forms of independent experiential learning subject to the criteria listed below and with the approval of the appropriate committee. Normally, three credits per experience (to a maximum of 6 credits) may be assigned to an independent experiential learning course (EXPL 3/4000/01) as recommended by the course supervisor and approved by the Experiential Learning Committee. A letter grade will be assessed for the credit. A maximum of 6 credits may be included in a student's degree from this mechanism. Normally, students must have third year standing at the time of course approval and may not gain additional academic credit under this regulation where credit has been assigned as part of an existing Mount Allison course. Credit obtained from the independent experiential learning cannot be used to fulfill distribution requirements.

To be eligible for academic credit, the independent experiential learning must satisfy the following criteria:

a) the experience is provided through an organization or institution which supports open inquiry and intellectual freedom,
b) two months prior to the experience, the student must consult with an appropriate faculty supervisor and forward a study plan (see below, section c) to the Experiential Learning Committee for approval. The Chair of the Experiential Learning Committee will confirm the decision with the Registrar, including the course to which credit will be assigned,
c) the study plan submitted to the faculty supervisor and the Experiential Learning Committee must contain:
   i) a brief description of the intended experiential learning, including beginning and ending dates;
   ii) an overview of the sponsoring organization and supporting documentation on the particular program, including a letter of acceptance noting the student's involvement, where appropriate;
   iii) a description of any academic components required before or during the program (such as public seminars, pre-departure sessions, academic or cultural preparation); and
   iv) a plan for the academic evaluation of the experience that demonstrates its contribution to the student's scholarly development. The study plan must include an analytical assignment which forms the basis for the assigning of academic credit. All elements of the study plan are to be completed before credit will be assigned,
d) the requirements of the University's policy on liability for student travel must be met,
e) following the experience, the student shall request that a letter from the director/co-ordinator of the experience or program be submitted to the faculty supervisor confirming that the student completed the experiential learning program successfully.

#### EXPL 3/4000 (6.00 CR)
#### INDEPENDENT EXPERIENTIAL LEARNING

**Prereq:** Normally third-year standing at the time of approval under regulation 11.11.3

This is a university-wide course that provides credit for academic analysis of independent experiential learning. Normally a student may earn three credits (and up to six credits) per experience (to a maximum of six credits in a student's degree program) based on an independent experiential learning program evaluated under regulation 11.11.3.

#### EXPL 3/4001 (3.00 CR)
#### INDEPENDENT EXPERIENTIAL LEARNING

**Prereq:** Normally third-year standing at the time of approval under regulation 11.11.3

This is a university-wide course that provides credit for academic analysis of independent experiential learning. Normally a student may earn three credits (and up to six credits) per experience (to a maximum of six credits in a student's degree program) based on an independent experiential learning program evaluated under regulation 11.11.3.

# 11.12 UNIVERSITY SPECIAL TOPIC COURSES

Most courses at Mount Allison are offered by departments or programs and are designated with the associated course code. But there may be opportunities to offer a course in an interdisciplinary area or in a subject area that does not fall within any existing department or program. In such cases the course may be offered as a University Special Topic course.

### UNST 1991/2991/3991/4991 (3.00 CR)
### UNIVERSITY SPECIAL TOPIC

This course focuses on a topic not covered by the current course offerings in a department or program. [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for UNST 1991/2991/3991/4991 more than once, provided the subject matter differs.] (Format: Variable)

# 12 PROGRAMS AND COURSES OF INSTRUCTION

This section provides alphabetically ordered descriptions of all Minor, Major and Honours programs, including those that are interdisciplinary and those that centre on one discipline, as well as course descriptions for all disciplines. The course listings by disciplines are not an indication in all instances that a separate department exists for that discipline or that all courses are offered each year.

**Note:** The listing of a course in the calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department or Program Co-ordinator must be obtained.

## AMERICAN STUDIES

American Studies is an interdisciplinary program that seeks to help students understand the United States of America through its history, culture, literature, geography, and politics. The American Studies program at Mount Allison is designed primarily for students who are interested in studying American history, literature, and culture, and who are intrigued by broader thematic and disciplinary concerns in the intellectual apprehension of the United States.

### Interdisciplinary B.A. Programs

#### MINOR in American Studies is 24 credits earned as follows:

6 from ENGL 2701, 3621, 3711, 3721, 3731, 4701
6 from HIST 1601, 2511, 2521, 3511, 3531, 3801, 4510, 4571
12 from CANA 2421, GENV 2201, 2311, 3211, 3301, 3811 INLR 2301, POLS 3211, 3331, RELG 2841, SOCI 3431, 3451, or additional ENGL and HIST courses listed in the previous two lines
or from the following courses in any year when the Program Co-ordinator approves that their content contains a significant American Studies component: ENGL 3921, 3931, 4941

**Note:** At least 6 credits must be from courses at the 3/4000 level

**Note:** Other courses may be approved for the minor by the Program Co-ordinator

#### MAJOR in American Studies is 60 credits earned as follows:

3 from ENGL 1201
9 from ENGL 2701*, 3711*, 3721*
3 from GENV 3301*
12 from HIST 1601, 2511, 2521
33 from ECON 1001, 1011, 3501*, ENGL 3731*, 3741*, 3921*^, 3931*^, 4701*, 4951*^, FINA 3061*, GENV 2201, HIST 3511*, 3531*, 4510*, 4571*, 4951*^, INLR 2301*, 3101*, 4301*, POLS 3211*,3331*, RELG 2841, SOCI 3431*, 3451*

#### HONOURS in American Studies is 78 credits earned as follows:

60 credits as in the Major, plus:
6 from either HIST 4990 or ENGL 4990
12 additional credits from ECON 3501*, 3711*, ENGL 3731*, 3741*, 3921*^, 3931*^, 4701*, 4951*^, HIST 3511*, 3531*, 4510*, 4571*, 4951*^, INLR 3101*, 4301*, POLS 3211*, 3331*, SOCI 3431*, 3451*, or other 3/4000 level courses chosen in consultation with the Program Co-ordinator.

**Note:** * indicates course requires pre-requisites

**Note:** ^ indicates that the course may be approved for inclusion in the program when a significant American Studies component can be demonstrated and is approved with permission of the instructor and the Program Co-ordinator.

# ANTHROPOLOGY

Anthropology is the study of humans across space and time. It is essentially cross cultural, and attempts to understand the way of life of other peoples across the world; how they have attempted to solve pan human problems including food, shelter, and repopulation; and what worlds of meaning and explanation they have created. It is a comparative discipline seeking similarities and differences between societies and environments. Its study leads to a heightened awareness of the importance of culture and a sensitivity to cultural differences.

## Disciplinary B.A. Programs

### MINOR in Anthropology is 24 credits earned as follows:

3 from ANTH 1011
3 from Social Sciences at the 1/2000 level
6 from Anthropology at the 2000 level
6 from ANTH 3021, 3031, 3311, 3801, 3821, 3831, 3841, 3851, 3861, 3871, 4021, 4311
6 from Anthropology at the 3/4000 level, chosen in consultation with the Program Advisor

### MAJOR in Anthropology is 60 credits earned as follows:

3 from ANTH 1011
3 from Social Sciences at the 1/2000 level
6 from Anthropology at the 2000 level
9 from ANTH 3021, 3031, 3311
6 from ANTH 3801, 3821, 3831, 3841, 3851, 3861, 3871
9 from Anthropology at the 3/4000 level
6 from Anthropology at the 4000 level
18 credits from complementary courses in Social Sciences, Humanities, Arts and Letters, chosen in consultation with the Program Advisor

### HONOURS in Anthropology (Thesis Option) is 66 credits earned as follows:

42 credits as in the first seven lines of the Major, plus:
3 additional credits from ANTH 4021, 4311
15 from Anthropology at the 3/4000 level chosen in consultation with the Program Advisor
6 from ANTH 4990

### HONOURS in Anthropology (Course Option) is 66 credits earned as follows:

42 credits as in the first seven lines of the Major, plus:
3 from ANTH 4021, 4311
21 from Anthropology at the 3/4000 level chosen in consultation with the Program Advisor

## ANTHROPOLOGY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### ANTH 1011 (3.00 CR)
#### INTRODUCTION TO ANTHROPOLOGY

The course is designed to introduce students to the major fields of anthropology (physical, archaeological, linguistic and cultural) and to the major domains of cultural and social anthropology (types of society, social change, and political, economic, kinship and religious institutions). (Format: Lecture 3 Hours)

#### ANTH 1991 (3.00 CR)
#### SPECIAL TOPIC IN ANTHROPOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ANTH 1991 more than once, provided the subject matter differs.] (Format: Variable)

#### ANTH 2231 (3.00 CR)
#### CULTURE AND COMMUNICATION

**Prereq:** ANTH 1011; 3 credits in Social Sciences; or permission of the Department

This course presents an anthropological analysis of verbal and non-verbal systems of communication as well as the influence of language on human cognition. The aim is to develop an understanding of the role of bodily movements, facial expressions, and the use of personal space and symbolic gestures in the communicative process. (Format: Lecture 3 Hours) (Exclusion: ANTH 3231)

#### ANTH 2401 (3.00 CR)
#### ANTHROPOLOGY AND THE LIFE COURSE

**Prereq:** ANTH 1011; 3 credits in Social Sciences; or permission of the Department

This course examines the human life course in comparative perspective. It expands on many of the anthropological concepts introduced at the 1000 level, but centres on exploring the relationship between individuals and their ecological and sociocultural environments throughout the life cycle. It covers such topics as birth, infancy, childhood, adolescence, family relations, and work in different cultures. (Format: Lecture 3 Hours)

### ANTH 2501 (3.00 CR)
### ENVIRONMENT AND SOCIETY
**Prereq:** ANTH 1011; 3 credits in Social Sciences; or permission of the Department

A study of the various types of society, both past and present, that have emerged or been transformed through their interaction with their environments. The course will explore features associated with the major forms of society from foraging, through horticultural and agrarian, to industrial and post-industrial societal types. It will explore such themes as demography, resource exploitation, ecological adaptation, energy access, and environmental impact, in the context of social organization and societal formation.(Format: Lecture 3 Hours)

### ANTH 2521 (3.00 CR)
### ANTHROPOLOGICAL PERSPECTIVES ON DEVELOPMENT
**Prereq:** ANTH 1011; 3 credits in Social Sciences; or permission of the Department

An examination of development issues at the global and local levels, with emphasis on gender and indigenous peoples. The focus will fall on such questions as "What is development?" and "Who benefits?" The course reviews the contribution of applied anthropology, participatory action research, and popular education to development models, theory, and praxis. (Format: Lecture 3 Hours)

### ANTH 2701 (3.00 CR)
### HUMAN VARIATION
**Prereq:** ANTH 1011; 3 credits in Social Sciences; or permission of the Department

This course explores biological and cultural diversity in terms of evolutionary origin and adaptive significance. It focuses on why differences exist and how humans adapt to varying environments. (Format: Lecture 3 Hours) (Exclusion: ANTH 2991 Human Variation; ANTH 3991 Human Variation)

### ANTH 2991 (3.00 CR)
### SPECIAL TOPIC IN ANTHROPOLOGY
**Prereq:** ANTH 1011; 3 credits in Social Sciences; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ANTH 2991 more than once, provided the subject matter differs.] (Format: Variable)

### ANTH 3021 (3.00 CR)
### CLASSICAL THEORY IN ANTHROPOLOGY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level ; or permission of the Department

A review of the historical emergence of and major approaches taken to cultural and social anthropology. It will introduce the students to the major components of evolutionism, neo-evolutionism, particularism, functionalism, culture and personality, cultural materialism, and ecological anthropology. (Format: Lecture 3 Hours) (Exclusion: Any version of ANTH 3021 previously offered with a different title)

### ANTH 3031 (3.00 CR)
### INDIGENOUS KNOWLEDGE SYSTEMS: THEORETICAL AND METHODOLOGICAL ISSUES
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course explores the epistemology of systems of knowledge of Indigenous Peoples throughout the world. We ask questions such as "How is knowledge constructed?" "What is embodied in the terms "science" and "ethnoscience?" "Does Indigenous Knowledge differ from Scientific Knowledge and are there possibilities for integration in education, development and research?" (Format: Lecture 3 Hours)

### ANTH 3101 (3.00 CR)
### SOCIAL INEQUALITY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level ; or permission of the Department

A critical and comparative analysis of social inequality, one of the original and central issues in social thought. The course will consider the major theoretical interpretations of the various forms of structured social inequality. (Format: Lecture 3 Hours)

### ANTH 3311 (3.00 CR)
### ANTHROPOLOGICAL RESEARCH METHODS
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course introduces students to the central elements in anthropological field research methods, past and present. Topics covered include: research goals and project design; participant-observation and related techniques for acquiring original data; practical and ethical considerations regarding the field experience. (Format: Lecture/Case Studies 3 Hours)

### ANTH 3321 (3.00 CR)
### FIELD COURSE IN ANTHROPOLOGY
This course is designed to provide students with an intensive field experience, during which they pursue research on a topic to be chosen by the Instructor. As such, the course is not designed to be offered during the Fall and Winter terms, but may be available to students during the Spring/Summer term. Completion of ANTH 3311 (Anthropological Research Methods) is recommended before registering for this course. [Note 1: Permission of the Department is required.] (Format: Lecture 3 Hours)

### ANTH 3401 (3.00 CR)
### BELIEF SYSTEMS
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course explores the relationship between ideas, beliefs and social/cultural context. It covers a wide range of phenomena, among which are magic, witchcraft, shamanism, initiation and other types of rituals, and religious movements. (Format: Lecture/Case Studies 3 Hours)

### ANTH 3421 (3.00 CR)
### FOLKLORE
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

A survey of the various types of folklore - tale, song, rhyme, riddle, proverb, belief, and custom with particular attention to their form and function in relation to their contextual setting. Collection and analysis of examples by students will be combined with the use of materials from the Mary Mellish Archibald Memorial collection in the Library. (Format: Lecture 3 Hours)

### ANTH 3531 (3.00 CR)
### FAMILY AND KINSHIP
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

A study of a central principle of social organization and a major institution in society. The course will investigate the forms and functions of kinship and the role of and changes in the family in relation to pre-industrial, industrial and post-industrial societies. (Format: Lecture 3 Hours)

### ANTH 3541 (3.00 CR)
### ETHNOBOTANY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

Ethnobotany is the systematic study of how people of a particular region use and relate to plants. The scope of the course is global with special emphasis on the ecosystems of the Atlantic Region. Each year focuses on a different ecosystem. This is a field course, incorporating field trips and site visits as a class and for independent study, and providing basic skills for carrying out ethnobotanical fieldwork - plant identification and description, taxonomies, applications of specific plants for food, technology and medicine in different cultural traditions, ethnobotanical research methods and ethical issues. (Format: Lecture 3 Hours)

### ANTH 3621 (3.00 CR)
### HEALTH AND CULTURE
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

A review of the relations between human health and culture, biology and environment, with reference to the social dimensions of health, sickness, disease, and treatment. Through cross cultural and historic comparisons, connections between mainstream and alternate medicine are explored, and the role of anthropology in clinical settings and international health is discussed. (Format: Lecture 3 Hours)

### ANTH 3701 (3.00 CR)
### FORENSIC ANTHROPOLOGY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course focuses on the application of osteology to the medical-legal investigation of death, including description and identification of the victim, determination of cause and manner of death, and estimation of time of death. It also examines the methods of archaeological recovery of physical evidence. (Format: Lecture 3 Hours) (Exclusion: ANTH 3991 Forensic Anthropology)

### ANTH 3801 (3.00 CR)
### ABORIGINAL PEOPLES AND CULTURES OF CANADA
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course is a survey of the dynamics of Aboriginal life in Canada linking its rich and varied past with the challenges of the present. It follows the development of Aboriginal societies in Canada drawing on archaeological, linguistic and ethnographic data to reveal a complex picture of regional cultural diversity. Attention is given to contemporary issues of rights, economic development, and governance. (Format: Lecture 3 Hours) (Exclusion: ANTH 2801)

### ANTH 3821 (3.00 CR)
### MARITIME ABORIGINAL CULTURES IN ETHNOGRAPHIC PERSPECTIVE
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course focuses on the aboriginal cultures of Atlantic Canada, offering an overview of the region and critical appraisal of ethnographic materials relating to its various peoples. Topics covered include: oral tradition, language and identity, healing and traditional medicine, spirituality, relations with Euro-Canadians, political movements, and issues of resource management. (Format: Lecture/Case Studies 3 Hours)

### ANTH 3831 (3.00 CR)
### AREAL ETHNOGRAPHY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

An ethnographic study of an area other than those covered in other 3800 courses. (Format: Lecture 3 Hours)

### ANTH 3841 (3.00 CR)
### SOUTHEAST ASIAN ETHNOGRAPHY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

A course addressing social, cultural, and political issues in Southeast Asia from historical and contemporary perspectives, and considering social change and culture persistence in the region and in particular countries. Current topics such as refugees, biodiversity, gender, trade and development, nationalism, the legitimization of power, and relations between ethnic minorities and the state will be examined. (Format: Lecture 3 Hours)

### ANTH 3851 (3.00 CR)
### ARCTIC ETHNOGRAPHY
**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

A survey course exploring the diversity of the circumpolar regions, Siberia, Alaska, Greenland, Scandinavia and the Canadian North. How indigenous cultures have flourished in the harshest environment on earth will be examined. In addition, current issues facing indigenous peoples today such as, land claims, self-government, intellectual property rights, and transnational linkages, will be discussed. (Format: Lecture 3 Hours)

### ANTH 3861 (3.00 CR)
### AFRICAN ETHNOGRAPHY

**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

A course in which ethnographic studies of African peoples will be considered from a critical perspective. through course-readings and lectures and in extended class discussions covering a range of topics including art, ritual, gender, history, economy and world view. Students will be called upon to question the ways in which Africa and African people have been represented in anthropological, colonial and popular discourses. Current issues that dominate academic and popular writing on the continent and its inhabitants will be approached from this same critical stance. (Format: Lecture 3 Hours)

### ANTH 3871 (3.00 CR)
### NORTH AFRICAN AND MIDDLE EASTERN ETHNOGRAPHY

**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course explores the themes of similarity and difference among Muslim, Jewish, and Christian populations of North Africa and the Middle East in historical and contemporary perspective. Topics include the relationship between state and society through such institutions as family, gender, ritual, law, and foodways. (Format: Lecture 3 Hours)(Exclusion: ANTH 3831 - Areal Ethnography Mideast/Middle East and North Africa)

### ANTH 3991 (3.00 CR)
### SPECIAL TOPIC IN ANTHROPOLOGY

**Prereq:** ANTH 1011; 6 credits from ANTH at the 2000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ANTH 3991 more than once, provided the subject matter differs.] (Format: Variable)

### ANTH 4021 (3.00 CR)
### CONTEMPORARY THEORY IN ANTHROPOLOGY

**Prereq:** ANTH 3311; 3 credits from ANTH 3021, 3031; 3 credits from ANTH at the 3000 level; or permission of the Department

This seminar course is an advanced consideration of theory in anthropology since 1980. It explores the emergence and impact of major national styles of anthropological thought as well as the contribution of key individuals. (Format: Seminar 3 Hours)(Exclusion: Any version of ANTH 4021 previously offered with a different title)

### ANTH 4311 (3.00 CR)
### CRITICAL ETHNOGRAPHY

**Prereq:** ANTH 3311; 3 credits from ANTH 3021, 3031; 3 credits from ANTH 3800 series; or permission of the Department

An advanced seminar exploring the relationship between anthropological field research - fieldwork - and anthropological writing - ethnographies. This course deals with issues of form, content and purpose in contemporary ethnographies. The status of ethnographic 'facts' and 'truth' is a central concern. (Format: Seminar 3 Hours)

### ANTH 4421 (3.00 CR)
### THE ANTHROPOLOGY OF PERFORMANCE

**Prereq:** ANTH 3311; 3 credits from ANTH 3021, 3031; 3 credits from ANTH 3401, 3421; or permission of the Department

This course investigates the ongoing construction and interactional nature of culture. This seminar addresses contemporary discussions surrounding performance as an analytical tool in the context of ritual, representation, identity, mimicry and mimesis, everyday life, and art, through a variety of theoretical perspectives. (Format: Seminar 3 Hours)(Exclusion: ANTH 4401)

### ANTH 4531 (3.00 CR)
### CULTURAL ECOLOGY

**Prereq:** ANTH 3541; or permission of the Department

This course explores the relationship amongst human groups and their social, symbolic and physical surroundings. It discusses cultural systems as the means by which humans adapt to, interact with, and invest meaning into, their environments. Students will become familiar with current theoretical, methodological and applied issues in cultural ecology with special emphasis on traditional plant knowledge. (Format: Seminar 3 Hours)

### ANTH 4621 (3.00 CR)
### THE BODY IN CULTURE

**Prereq:** ANTH 3311; 3 credits from ANTH 3021, 3031; 3 credits from ANTH 3800 series; or permission of the Department

A seminar course exploring contemporary ethnographies that focus on the body as a site and instrument of culture. Topics addressed may include the senses, violence, adornment, foodways, and movement. (Format: Seminar 3 Hours)

### ANTH 4721 (3.00 CR)
### GLOBALIZATION AND SOCIAL CHANGE

**Prereq:** ANTh 3311; 3 credits from ANTH 3021, 3031; 3 credits from ANTH 3800 series; or permission of the Department

This course uses ethnographic materials to explore the meanings and central processes of globalization as a force in reshaping social and cultural life everywhere. Particular concerns include the relationship between globalization, inequality and poverty, the fate of cultural diversity in a globalizing world, and issues of gender, ethnicity, the environment, social justice, and human rights. (Format: Seminar 3 Hours)

### ANTH 4901 (3.00 CR)
### ISSUES IN ANTHROPOLOGY

**Prereq:** 3 credits from ANTH 3021, 3031; 3 credits from ANTH at the 3000 level; or permission of the Department

A study of specific issues in Anthropology. (Format: Seminar 3 Hours)

### ANTH 4950 (6.00 CR)
### INDEPENDENT STUDY IN ANTHROPOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor is required. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ANTH 4950/51 more than once, provided the subject matter differs.]

### ANTH 4951 (3.00 CR)
### INDEPENDENT STUDY IN ANTHROPOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor is required. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ANTH 4950/51 more than once, provided the subject matter differs.]

### ANTH 4990 (6.00 CR)
### HONOURS THESIS

(Format: Independent Study/Thesis) [Note 1: Prereq: Permission of the Department is required]

### ANTH 4991 (3.00 CR)
### SPECIAL TOPIC IN ANTHROPOLOGY

**Prereq:** 6 credits from ANTH at the 3000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ANTH 4991 more than once, provided the subject matter differs.]

# ART HISTORY

The Department of Fine Arts offers a B.A. with a Major or Minor in Art History. The study of Art History is integral to the study of art and visual culture. With its increasingly interdisciplinary approach, Art History encompasses a broad range of visual, cultural and social studies. An art history background provides valuable insight into history, philosophy and the humanities in general. Course offerings range from an introduction to World Art to more focused examinations of the Nineteenth and Twentieth Centuries, including Canadian Art, Contemporary Art, and Women in Art. Advanced seminars are also offered on subjects ranging from critical issues around Modernism and Postmodernism, Feminist and Gender Studies, Museum Studies, Art Criticism and Theory, and Photography and Film Studies. Students majoring in Art History are also encouraged to do a Special Topics paper on a specific area of interest. Courses are also offered for credit as Art History courses in Classics, Philosophy, English, History, and Modern Languages and Literatures. The Owens Art Gallery is an invaluable resource for the study of Art History and for the Fine Arts Department. Further resources include Fine Arts field trips and a Visiting Artists' Program.

## Disciplinary B.A. Programs

### MINOR in Art History is 24 credits earned as follows:

6 from FINA 2001, FINA 2011, FINH 2001, FINH 2011, FINH 2101, FINH 2111

18 from Art History at the 3/4000 level or from CLAS 3601, 3611, 3701, or 3711, ENGL 3621, FREN 2801, GERM 2701, HIST 4001, PHIL 2401

### MAJOR in Art History is 60 credits earned as follows:

6 from FINA 2001, FINA 2011, FINH 2001, FINH 2011, FINH 2101, FINH 2111

36 from Art History at the 3/4000 level or from CLAS 3601, 3611, 3701, or 3711, ENGL 3621, FREN 2801, GERM 2701, HIST 4001, PHIL 2401

18 from complementary courses in Arts and Letters and Humanities, chosen in consultation with the Program Advisor

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

## ART HISTORY COURSES

### FINH 1991 (3.00 CR)
### SPECIAL TOPIC IN ART HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINH 1991 more than once, provided the subject matter differs.]

### FINH 2101 (3.00 CR)
### INTRODUCTION TO ART HISTORY

This course provides a chronological introduction to the history of Western art from the early Renaissance to the present day. It explores critically the major movements that shaped art throughout these periods. (Format: Lecture 3 Hours) (Exclusion: FINA 2011; FINH 2011)

### FINH 2111 (3.00 CR)
### CONTEXTS OF ART

**Prereq:** FINH 2101; or permission of the Department

This course follows from FINH 2101 and focuses on the cultural, historical, and critical contexts of art. It explores concepts, theories, and issues such as patronage, material culture, art markets, and media that are associated with a broader study of art history and visual culture. (Format: Lecture 3 Hours)

### FINH 2991 (3.00 CR)
### SPECIAL TOPIC IN ART HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINH 2991 more than once, provided the subject matter differs.]

### FINH 3021 (3.00 CR)
### CANADIAN ART FROM ITS BEGINNINGS TO THE 1960S

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course surveys the history of art in Canada from its beginnings to the 1960s within its historical, social, political, and cultural contexts and considers the ways in which art history and its narratives function. The course covers: the art of Canada's First Nations; topographical and portrait traditions in the Colonial period; landscape painting and the idea of Nationhood; mysticism and nature in Canadian painting; art and democracy; formal experimentation and the urban space in the art of the Inter-War Years; the development of Canadian sculpture; modernism in Canadian painting; Quebec art, politics, and the Church; and the development of abstraction. (Format: Lecture 3 Hours) (Exclusion: FINA 3021)

### FINH 3031 (3.00 CR)
### CANADIAN ART FROM THE 1960S TO THE PRESENT

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course considers visual art in Canada from the mid-1960s to the present. It looks at a range of media, including painting, sculpture, photography, video, audio, performance, installation, and Internet art. It investigates current issues in contemporary art practice including cultural identity, the politics of representation, gender and the body, audience, and censorship. (Format: Lecture 3 Hours) (Exclusion: FINA 3031)

### FINH 3041 (3.00 CR)
### MUSEUM STUDIES

**Prereq:** 6 credits from Art History courses; or permission of the Department

This course examines the art museum within contemporary society. It considers the history and future shape of the museum, and examines current practice, issues, and debate. Topics covered include: the politics of the museum; its history and discourse; curatorial practice and the development of exhibitions; the museum and its publics; museums and new media; collections; and issues of artistic freedom and censorship. (Format: Seminar 3 Hours) (Exclusion: FINA 3041)

### FINH 3051 (3.00 CR)
### TWENTIETH CENTURY ART TO 1940

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course examines art and architecture in Europe and North America from 1900 to 1940. It covers schools and movements including the Secession, Expressionism, The Fauves, Cubism, Futurism, Constructivism, Abstraction, Dada, Surrealism, and Social Realism, as well as artists working independently of any formal group. The architectural movements covered include Art Nouveau, Bauhaus, De Stijl, Prairie style, and International style. Issues addressed in this course include gender, psychoanalysis, "primitivism," and the politics of colonialism and international warfare. (Format: Lecture 3 Hours) (Exclusion: FINA 3051)

### FINH 3061 (3.00 CR)
### MODERN ART FROM 1940 TO 1970

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course examines art and architecture in Europe and the United States from 1940 to 1970. It considers schools and movements including Abstract Expressionism, CoBrA, Pop Art, Junk Art, Minimalism, Kinetic Art, Op Art, Land Art, Process Art, Conceptual Art, Arte Povera and Performance Art, as well as artists and architects working independently of any formal group. Issues addressed in this course include notions of modernism and the avant-garde, gender, international warfare, post-World War II consumerism, internationalism, and the role of art critics in shaping a "canon" for twentieth-century art. (Format: Lecture 3 Hours)

### FINH 3071 (3.00 CR)
### CONTEMPORARY ART SINCE 1970

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course examines contemporary art and architecture since 1970 and focuses on themes including the body and identity. Topics include naturally, and culturally, constructed bodies, gender identity, sexual identities, ethnic bodies, abject bodies, and political and religious identities. This course will include art in a variety of media including the bodies of humans and animals, painting, sculpture, assemblage, installation, photography, printmaking, architecture, textiles, film, video, and performance art. (Format: Lecture 3 Hours) (Exclusion: FINA 3071)

### FINH 3081 (3.00 CR)
### WOMEN, ART AND SOCIETY

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course offers a history of women in art and society, with examples from the Medieval period through to the practice of women artists in contemporary culture. Drawing on social history, feminism and its implications, and the representation of women in the visual arts, this course will provide a better understanding of the situation of women artists within different social, regional and global contexts. (Format: Lecture 3 Hours) (Exclusion: FINA 3081)

### FINH 3141 (3.00 CR)
### NINETEENTH CENTURY ART, PART ONE

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course examines art and architecture during the first half of the nineteenth century in the United States and Western Europe (particularly Belgium, England, France, Germany and Spain). This course includes art in a variety of media and will pay particular attention to the inventions of lithography and photography during this time. Artistic movements such as Neo-Classicism, Romanticism and Realism will be considered in this course along with artists who worked independently from these movements. (Format: Lecture 3 Hours) (Exclusion: FINA 3141)

### FINH 3241 (3.00 CR)
### NINETEENTH CENTURY ART, PART TWO

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

This course examines art and architecture during the second half of the nineteenth century in the United States and Western Europe (particularly Belgium, England, France, Germany and Spain). This course includes art in a variety of media and will pay particular attention to innovations in the production of photographs, etchings, and posters during this time. Artistic movements such as Realism, Impressionism, Post-Impression and Art Nouveau will be considered in this course. (Format: Lecture 3 Hours) (Exclusion: FINA 3241)

### FINH 3991 (3.00 CR)
### SPECIAL TOPIC IN ART HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINH 3991 more than once, provided the subject matter differs.]

### FINH 4041 (3.00 CR)
### ART CRITICISM AND THEORY

**Prereq:** 6 credits from FINH 2001, 2011, 2101, 2111; or permission of the Department

A study of art criticism and theory within a selected time frame with emphasis on the writings of critics, artists and philosophers. (Format: Lecture 3 Hour) (Exclusion: FINA 4041; FINA 4051)

### FINH 4091 (3.00 CR)
### ADVANCED SEMINAR IN ART HISTORY

**Prereq:** Six credits from FINA 2001, FINA 2011, FINH 2001, FINH 2011, FINH 2101, FINH 2111; or permission of the Department

This course explores key issues in nineteenth to twenty-first century art, with topics to vary from term to term. It emphasizes contemporary, theoretical, methodological and critical approaches to the art of the recent past. (Format: Seminar 3 Hours)[Note: Students may register for FINH 4091 more than once, provided the subject matter differs.]

### FINH 4950 (6.00 CR)
### INDEPENDENT STUDY IN ART HISTORY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for FINH 4950/51 more than once, provided the subject matter differs.]

### FINH 4951 (3.00 CR)
### INDEPENDENT STUDY IN ART HISTORY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for FINH 4950/51 more than once, provided the subject matter differs.]

### FINH 4991 (3.00 CR)
### SPECIAL TOPIC IN ART HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINH 4991 more than once, provided the subject matter differs.]

## OTHER ART HISTORY COURSES

The following courses also count as Art History offerings:

### CLAS 3601 (3.00 CR)
### THE BIRTH OF GREEK ART

**Format:** Lecture 3 Hours

### CLAS 3611 (3.00 CR)
### THE SPLENDOURS OF CLASSICAL AND HELLENISTIC GREEK ART

**Format:** Lecture 3 Hours

### CLAS 3701 (3.00 CR)
### ETRUSCAN AND EARLY ROMAN ART AND ARCHAEOLOGY

**Format:** Lecture 3 Hours

### CLAS 3711 (3.00 CR)
### THE ART OF IMPERIAL ROME AND ITS EMPIRE

**Format:** Lecture 3 Hours

### ENGL 3621 (3.00 CR)
### READING FILMS

**Format:** Lecture 3 Hours, Laboratory 2 Hours

### FREN 2801 (3.00 CR)
### LE CINÉMA DU MONDE FRANCOPHONE

**Format:** Lecture 3 Hours

### GERM 2701 (3.00 CR)
### THE NEW GERMAN FILM: HISTORY, THEORY AND PRACTICE

**Format:** Lecture 3 Hours, Film Screening 2.5 Hours

### HIST 4001 (3.00 CR)
### HISTORY THROUGH FILM

**Format:** Seminar 3 Hours

### PHIL 2401 (3.00 CR)
### INTRODUCTORY AESTHETICS

**Format:** Lecture 3 Hours

# AVIATION

This interdisciplinary major covers basic geography and environmental science, mathematics and computer science, and physics, and upper level courses from these disciplines plus credit for aviation courses studied at Moncton Flight College.

## Entrance Requirements

a) Each prospective student for the Major in Aviation must meet the general admissions requirements of Mount Allison (section 3) and should declare at time of application.
b) Each prospective student for the Major in Aviation must obtain a Transport Canada Category 1 medical certificate before commencing flight training.

**Note:** The practical elements of the program may require training time outside the traditional September-April teaching period. Students should consult with the Program Advisor about the time commitment needed.

## Interdisciplinary B.Sc. Program

### MAJOR in Aviation is 78 credits earned as follows:

6 from MATH 1111, COMP 1631
6 from PHYS 1051, 1551
6 from GENS 1401, 2421
6 from Computer Science, GENS, Mathematics or Physics at the 2000 level chosen in consultation with the Program Advisor*
18 from Computer Science, GENS, Mathematics or Physics at the 3000/4000 level chosen in consultation with the Program Advisor*
36 credits twelve of which are designated at the 3000/4000 level as follows:

a) from Moncton Flight College through completing the requirements for flight training outlined in the Handbook for the Mount Allison Bachelor of Science (Aviation) including the Commercial Pilot Licence with Multi-engine and Instrument Flight Rules ratings, or
b) from Moncton Flight College by transfer after completion of the Diploma in Aviation Technology (Pilot), or
c) from Confederation College by transfer after completion of the Aviation Flight Management Diploma

*Consultation must occur before the student's second year of study.

# BIOCHEMISTRY

Biochemistry is the study of the chemical structures and processes of living organisms.

## Interdisciplinary B.Sc. Programs

### MINOR in Biochemistry is 24 credits earned as follows:

6 from BIOC 1001, 2001
3 from BIOL 1501
6 from CHEM 1001, 1021
3 from CHEM 2111, 2411
6 from Biochemistry at the 3/4000 level

### MAJOR in Biochemistry is 75 credits earned as follows:

21 from BIOC 1001, 2001, 3001, 3031, 3041, 3521, 4031
3 from Biochemistry at the 3/4000 level
6 from BIOL 1501, 2601
6 from BIOL 2101, 2201, 2301, 2401, 2701, 3111, 3211, 3631, 3641, 3711, 4151, 4211, GENS 1401
12 from CHEM 1001, 1021, 2111, 2411
9 from CHEM 2121, 2211, 2311, 3131
6 from MATH 1111, 1121
3 from PHYS 1041 or 1051
3 from PHYS 1551
6 from Biochemistry or Biology or Chemistry or GENS at the 3/4000 level, chosen in consultation with the Program Advisor

### HONOURS in Biochemistry is 84 credits earned as follows:

75 credits as in the Major
9 from BIOC 4990 and BIOC 4903

## BIOCHEMISTRY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

**Note:** The following courses are subject to an instructional supply fee - BIOC 2001, 3001, 3031, 3521.

### BIOC 1001 (3.00 CR)
### INTRODUCTORY BIOCHEMISTRY

This course introduces current topics and advances in Biochemistry and engages students in the scope and activities of the discipline. It examines the central role of water in biological systems, leading to an introduction of acid-base equilibria, the properties of biological membranes, and the bioenergetics of solutes moving across membranes. It introduces the principles of carbon bonding and electronegativity, leading to coverage of the bioorganic functional groups, whose characteristic properties and reactions combine to create the highly complex biological macromolecule classes of carbohydrates, proteins, nucleic acids, and lipids. (Format: Lecture 3 Hours, Tutorial 1.5 Hours)

### BIOC 1991 (3.00 CR)
### SPECIAL TOPIC IN BIOCHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOC 1991 more than once, provided the subject matter differs.]

### BIOC 2001 (3.00 CR)
### ENZYMOLOGY AND METABOLISM

**Prereq:** Second-year standing; BIOC 1001; or permission of the Department

This course examines the properties of enzymes including kinetics and regulation. It introduces carbohydrate and fat metabolism, respiratory and photosynthetic electron transport, and nitrogen assimilation and dissimilation, concentrating on key stoichiometries, structures, redox biochemistry, and bioenergetics. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of BIOC 2001 previously offered with a different title)

### BIOC 2991 (3.00 CR)
### SPECIAL TOPIC IN BIOCHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOC 2991 more than once, provided the subject matter differs.]

### BIOC 3001 (3.00 CR)
### EXPERIENTIAL BIOCHEMISTRY

**Prereq:** BIOC 2001; or permission of the Department

This course teaches students to plan and conduct a range of current biochemical analyses including spectroscopy, gas analyses, and chromatographic separations and imaging, with particular emphasis on the new opportunities opened through high-throughput computerized data capture applied to both established and new instrumental analyses. In parallel it guides students through the processes of plotting, interpreting, and presenting the meaning of their results. (Format: Integrated Lecture and Laboratory, 6 Hours)

### BIOC 3031 (3.00 CR)
### MOLECULAR ANALYSES

**Prereq:** BIOC 2001; or permission of the Department

This course focuses on experiential analysis and computer modeling of key concepts of the molecular basis of biology, including nucleic acid structure, synthesis, and replication through template-directed polymerizations. The course builds on these key concepts to explore gene structure, expression, and engineering, leading to the wide-ranging applications of molecular biology to biology, medicine, and diagnostics. [Note 1: This course is cross-listed as BIOL 3031 and may therefore count as 3 credits in either discipline. Note 2: This course is required for students completing a Major or Honours in Biochemistry. It is open to students from other programs on a space available basis, provided that the student has met the prerequisite requirement.] (Format: Integrated Lecture and Laboratory, 6 Hours) (Exclusion: BIOC 3021; BIOC 3531)

### BIOC 3041 (3.00 CR)
### NUCLEIC ACIDS: STRUCTURES, MECHANISMS AND REGULATIONS

**Prereq:** BIOC 2001; BIOL 2601; or permission of the Department

This course interlinks structural, mechanistic, and regulatory aspects of nucleic acid function. It explores the structures of DNA and RNA and how DNA assembles into chromosomes. It also reviews the mechanisms of DNA replication, repair, recombination, transcription, and RNA splicing. It examines the complexity and ingenuity of gene regulation in both prokaryotes and eukaryotes. (Format: Lecture 3 Hours) (Exclusion: BIOC 4911 Nucleic Acids)

### BIOC 3051 (3.00 CR)
### MOLECULAR IMMUNOLOGY

**Prereq:** BIOL 1501; BIOC 2001; or permission of the Department

This course explains the core molecular structures of the immune system: antibodies and their interactions with antigens. It places these molecular interactions in the context of the cells and tissues of the immune system and the signaling cascades that regulate immune responses. The course concludes with topics in immunology and applications of immunochemistry. [Note 1: This course is cross-listed with BIOL 3051 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: BIOC 4011)

### BIOC 3131 (3.00 CR)
### ORGANIC CHEMISTRY: BIOORGANIC

**Prereq:** CHEM 2121; or permission of the Department

This course presents the principles of organic chemistry as they apply to biochemical problems. Topics covered include enzymic reaction mechanisms, enzyme cofactors, peptide and nucleic acid synthesis, and enzymes in organic synthesis. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with CHEM 3131 and may therefore count as three credits in either discipline. Chemistry students should register for CHEM 3131.]

### BIOC 3501 (3.00 CR)
### ADVANCED METABOLISM

**Prereq:** BIOC 2001; or permission of the Department

This course examines the coordinated biochemical transformations of matter, energy, and information through metabolic pathways, emphasizing nitrogen, lipid, and secondary metabolism, metabolic compartmentalization and integration, and bioenergetics. (Format: Lecture 3 Hours) (Exclusion: BIOC 3501 Metabolism)

### BIOC 3521 (3.00 CR)
### PROTEIN BIOCHEMISTRY

**Prereq:** BIOC 2001; or permission of the Department

This course examines the relations between protein structure and function at the primary, secondary, tertiary, and quaternary levels; enzyme catalysis and mechanism; isolation, purification, and characterization of proteins; the metabolism of proteins through synthesis and degradation; and recent trends in protein design. Students learn sequence comparison, motif searching, and development of visual protein structures constructed from the protein structural data bases available over the web. The course introduces mass spectroscopic analyses of the proteome and protein sequencing. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOC 3711 (3.00 CR)
### BIOCHEMICAL ECOLOGY

**Prereq:** BIOL 2101; BIOC 2001; or permission of the Biology Department

This course deals with the biochemistry of interactions between animals, plants and microorganisms that occur in the natural environment. It places strong emphasis on the role of "secondary metabolites" or "natural products" such as alkaloids, flavonoids, terpenoids, etc., in the insect-plant, vertebrate-plant, plant-plant and vertebrate-vertebrate relationships. (Format: Seminar 3 Hours) [Note 1: This course is cross-listed with BIOL 3711 and may therefore count as three credits in either discipline.]

### BIOC 3991 (3.00 CR)
### SPECIAL TOPIC IN BIOCHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOC 3991 more than once, provided the subject matter differs.]

### BIOC 4021 (3.00 CR)
### LIPID AND MEMBRANE BIOCHEMISTRY

**Prereq:** BIOC 2001; or permission of the Department

This course covers the metabolism of major classes of lipids, their roles in signal transduction, and their interactions with proteins. (Format: Lecture 3 Hours)

### BIOC 4031 (3.00 CR)
### SIGNAL TRANSDUCTION

**Prereq:** BIOC 3521; or permission of the Department

This course examines the processes by which cells receive external signals and convert this information into cellular events through ordered sequences of biochemical reactions that may result in changes to cellular metabolism, behaviour, or gene expression.(Format: Lecture 3 Hours)

### BIOC 4151 (3.00 CR)
### VIROLOGY

**Prereq:** Third year standing; BIOL 2201; BIOL 2601; or permission of the Department

This course introduces the fundamental features of animal, bacterial, and plant viruses. It covers the biochemical genetic features of viral structure and replication, techniques used in studying viruses, the evolution of viruses, cell defences against viruses, the history of viruses as the causal agents of animal and plant disease,and current antiviral strategies. It also discusses the role of viruses as agents of evolutionary change and their use in modern molecular genetics. [Note 1: This course is cross-listed with BIOL 4151 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours)

### BIOC 4201 (3.00 CR)
### ENVIRONMENTAL PHYSIOLOGY AND BIOCHEMISTRY OF ANIMALS

**Prereq:** 3 credits from BIOC 2001, BIOL 3201, BIOL 3211; or Permission of the Department

This course in animal physiology examines the physiological and biochemical strategies animals use to survive in diverse, often stressful environments. Using primary literature from scientific journals, this course focuses on animal responses to environmental conditions such as hypoxia and anoxia, high and low temperatures, overwintering, altitude, environmental pollutants, osmotic stress, and UV radiation. [Note 1: Weekly discussion groups on recent topical papers form a major component of this course.][Note 2: This course is cross-listed with BIOL 4201 and may therefore count as three credits in either discipline.] (Format: Seminar 3 hours) (Exclusion: BIOC 4201 previously offered with a different title)

### BIOC 4351 (3.00 CR)
### INORGANIC CHEMISTRY: BIOINORGANIC

**Prereq:** CHEM 2311; CHEM 3321; or permission of the Department

This course examines the roles metals play in biochemical systems, and includes an overview of bioinorganic chemistry and a discussion of metals in medicine. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with CHEM 4351 and may therefore count as three credits in either discipline.]

### BIOC 4903 (3.00 CR)
### CURRENT ADVANCES IN BIOCHEMISTRY

**Prereq:** Fourth- year standing

**Coreq:** BIOC 4990

This is a seminar course for Honours students in Biochemistry, which critically evaluates a wide range of topics from the current literature. Students are expected to deliver seminars on topics outside their thesis areas and to present preliminary thesis results. (Format: Seminar 3 Hours)

### BIOC 4950 (6.00 CR)
### INDEPENDENT STUDY IN BIOCHEMISTRY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [ Note 1: Permission of the Department/Program Advisor is required. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for BIOC 4950/51 more than once, provided the subject matter differs.]

### BIOC 4951 (3.00 CR)
### INDEPENDENT STUDY IN BIOCHEMISTRY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [ Note 1: Permission of the Department/Program Advisor is required. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for BIOC 4950/51 more than once, provided the subject matter differs.]

### BIOC 4990 (6.00 CR)
### HONOURS THESIS

**Coreq:** BIOC 4903

The honours thesis is based upon a program of original student research conducted with the advice of an academic supervisor. (Format: Independent Study/Thesis) [Note 1: Consent of supervising staff member prior to registration and permission of the Program Advisor is required.]

### BIOC 4991 (3.00 CR)
### SPECIAL TOPIC IN BIOCHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOC 4991 more than once, provided the subject matter differs.]

# BIOLOGY

Biology is the scientific study of living things: their form, their function, their origin and their behaviour. The study of Biology can be an important part of a liberal education, for to understand it well requires knowledge of chemistry, physics, mathematics, and natural history; to describe it well requires a command of language and ability to present observations visually; to appreciate it requires an awareness of human nature, both past and present, and the interplay between humans and other living organisms and their common environment. For three thousand years this discipline has developed to describe living things in aid of the arts of healing, of gardening and of living. Today it abounds with exciting new knowledge and discoveries, so that wise people still read about it with amazement or pursue it with delight.

In this Department three things are attempted: to give all students an understanding of the scope, techniques and general principles which underpin Biology; to encourage independent study and self-learning where possible; to give those students who are seriously interested in advanced studies an opportunity of exploring the areas of special interest to faculty who are primarily concerned with the fields of ecology and physiology.

Students intending to take a Major or Minor or Honours in Biology should consult the Department website and/or a Program Advisor before completing registration.

## Disciplinary B.Sc. Programs

### MINOR in Biology is 24 credits earned as follows:

6 from BIOL 1001, 1501
3 from CHEM 1001, BIOC 1001
9 from BIOL 2101, 2201, 2301, 2401, 2601, 2701, 2801
6 from Biology at the 3/4000 level

### MAJOR in Biology is 60 credits earned as follows:

6 from BIOL 1001, 1501
3 from PHYS 1051, 1041
3 from MATH 1111 or 1151
3 from MATH 1121, 1251, 2211, 2221, or COMP 1631
3 from CHEM 1001
3 from BIOC 1001
12 from BIOL 2101, 2601, 2701, 2801
6 from BIOL 2201, 2301, 2401
21 additional credits from Biology at the 3/4000 level

**Note:** BIOC 2001 is a prerequisite for several 3/4000 Biology courses.

**Note:** Additional 3/4000 level courses are needed to fulfill Calendar Regulation 11.3.5

**Note:** Courses with significant biological content offered by other departments may be approved as biology credits (to a maximum of 6 credits, by permission of the Biology Department).

### HONOURS in Biology is 75 credits earned as follows:

60 as in the Major, including 3 credits from BIOL 2701 or 4711, plus:
9 from BIOL 4903, 4990

6 from Biology at the 3/4000 level, chosen in consultation with the Program Advisor

**Note:** The thesis required will involve laboratory or field investigation, and unless the candidate shows satisfactory ability to carry on independent work, honours will not be recommended. With permission of the Biology Department, up to 6 credits from an approved list of courses given in other departments can be used as the equivalent of Biology courses in the Major or Honours.

## BIOLOGY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

**Note:** The following courses are subject to an instructional supply fee - BIOL 1001, 1501, 2101, 2201, 2301, 2401, 2601, 2701, 3031, 3111, 3201, 3211, 3351, 3361, 3371, 3401, 4411, 3621, 3631, 3651, 3751, 3991 (Molecular Tools in Ecology), 4111.

### BIOL 1001 (3.00 CR)
### FOUNDATIONS OF BIOLOGY

This course introduces the fundamentals of organismal biology: the scientific method, principles of evolution including Darwin's theory of natural selection, adaptations in organismal form and function, biodiversity, the interactions of organisms with their environment, and the practices of scientific communication. [Note 1: This course is designed for science majors. Students who intend to continue to study in Biology should note the need to complete BIOC 1001 as a prerequisite for BIOL 1501.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of BIOL 1001 previously offered with a different title)

### BIOL 1201 (3.00 CR)
### HUMAN BIOLOGY

A lecture and laboratory course based on the application of biological principles to practical human concerns. It will introduce the development, structure and function of the human body, and mechanisms involved in degenerative infectious diseases. This will be followed by a discussion of human reproduction and genetics. The impact of evolutionary theory on our understanding of the human species will be presented, as well as the interdependence between natural ecosystems and human activities. Threats to the environment through pollution and overpopulation will be discussed. (Format: Lecture 3 Hours) [Note 1: This course is restricted to non-science majors. Science majors require the instructor's permission to enrol.]

### BIOL 1501 (3.00 CR)
### CELL BIOLOGY

**Prereq:** BIOC 1001; or permission of the Department

This course introduces the structure, organization and functions of the cell, which is the fundamental structural and functional unit of living organisms. It places particular emphasis on eukaryotic cells. Topics include: membranes and organelles, communication within and between cells, membrane transport, the cell cycle, meiosis and mitosis. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 1991 (3.00 CR)
### SPECIAL TOPIC IN BIOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOL 1991 more than once, provided the subject matter differs.]

### BIOL 2101 (3.00 CR)
### INTRODUCTION TO ECOLOGY

**Prereq:** BIOL 1001; BIOL 1501 strongly recommended; or permission of the Department

This course introduces current concepts of population and community ecology using local ecosystems and organisms, principally aquatic insects, whenever possible. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of BIOL 2101 previously offered with a different title)

### BIOL 2201 (3.00 CR)
### FORM AND FUNCTION: MICROORGANISMS

**Prereq:** 3 credits from BIOL 1501, BIOC 2001; or permission of the Department

This course surveys the evolutionary and functional diversity of the Archaea, Bacteria, and selected eukaryotic microbes, examining the cellular structures and metabolic processes characteristic of each group, and how these characteristics allow humans to control and use microbial growth. The course also examines how genomic sequencing is altering our views of microbial evolution and ecology. (Format: Lecture 3 Hours, Laboratory 3 Hours; Exclusion: BIOL 3101)

### BIOL 2301 (3.00 CR)
### FORM AND FUNCTION: PLANTS

**Prereq:** BIOL 1001; BIOL 1501 strongly recommended; or permission of the Department

This course introduces the structure and function of plants with an emphasis on vascular plants. Topics include comparative anatomy, development and functional adaptations to the environment, and how genomic sequencing is altering our views of plant evolution and ecology. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of BIOL 2301 previously offered with a different title)

### BIOL 2401 (3.00 CR)
### FORM AND FUNCTION: ANIMALS

**Prereq:** BIOL 1001; BIOL 1501; or permission of the Department

This course introduces students to the structure and function of major groups of invertebrate and vertebrate animals on a comparative basis by observation of both preserved and living material. Topics include comparative anatomy and phylogeny, and the evolution and function of locomotory, digestive, excretory, respiratory, nervous and reproductive systems.(Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of BIOL 2401 previously offered with a different title)

### BIOL 2601 (3.00 CR)
### GENETICS

**Prereq:** BIOL 1501; or permission of the Department

An introduction to genetics which will address the seemingly paradoxical phenomena of genetic continuity and genetic variation of living beings. This will be achieved by examining the cellular and molecular basis of gene replication, recombination and mutation. Viruses, bacteria and eukaryotes of various levels of organismic complexity will serve as examples both in lectures and laboratories. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 2701 (3.00 CR)
### INTRODUCTORY DESIGN & STATISTICAL ANALYSIS

**Prereq:** 3 credits from BIOL 1001, 1501; MATH 1111; or permission of the Department

This course introduces data analysis, the principles of experimental design and the formulating and testing of hypotheses. It describes graphical and statistical (t-test, chi-square test, ANOVA) analyses of laboratory and field collected data, and discusses their appropriate use in Biology. [Note 1: Data management and statistical analyses uses Excel and R.](Format: Lecture 3 Hours and Tutorial 1.5 Hours) (Exclusion: BIOL 3701; any version of BIOL 2701 previously offered with a different title)

### BIOL 2801 (3.00 CR)
### EVOLUTION

**Prereq:** BIOL 1001; BIOL 1501 ; BIOL 2601 recommended; or permission of the Department

This course investigates modern theories of biological evolution at all levels. It presents methods employed to describe and assess genetic variation within and between populations. Comprehension of presented concepts requires an understanding of Mendelian genetics and mechanisms of inheritance, sources of genetic variability in natural populations, natural selection, and genetic equilibrium of populations. (Format: Lecture 3 Hours) (Exclusion: BIOL 3011)

### BIOL 2991 (3.00 CR)
### SPECIAL TOPIC IN BIOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOL 2991 more than once, provided the subject matter differs.]

### BIOL 3021 (3.00 CR)
### PALAEONTOLOGY

**Prereq:** BIOL 2301; BIOL 2401; or permission of the Department

This course provides an overview of the major fossil plant and animal taxa in the context of the history of macroscopic and microscopic forms of life on Earth. It discusses morphology and anatomy of organisms in relation to accompanying changes in marine and terrestrial environments and when appropriate it emphasizes diagnostic features of the organisms used as time (biostratigraphy) and/or environmental (paleoecology) indicators. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: GENS 3991 Introduction to Palaeontology)

### BIOL 3031 (3.00 CR)
### MOLECULAR ANALYSES

**Prereq:** BIOC 2001; or permission of the Department

This course focuses on experiential analysis and computer modeling of key concepts of the molecular basis of biology, including nucleic acid structure, synthesis, and replication through template-directed polymerizations. The course builds on these key concepts to explore gene structure, expression, and engineering, leading to the wide-ranging applications of molecular biology to biology, medicine, and diagnostics. [Note 1: This course is cross-listed with BIOC 3031 and may therefore count as 3 credits in either discipline. Note 2: This course is required for students completing a Major or Honours in Biochemistry. It is open to students from other programs on a space available basis, provided that the student has met the prerequisite requirement.] (Format: Integrated Lecture and Laboratory, 6 Hours) (Exclusion: BIOC 3021; BIOC 3531)

### BIOL 3051 (3.00 CR)
### MOLECULAR IMMUNOLOGY

**Prereq:** BIOC 2001; or permission of the Department

This course explains the core molecular structures of the immune system: antibodies and their interactions with antigens. It places these molecular interactions in the context of the cells and tissues of the immune system and the signaling cascades that regulate immune responses. The course concludes with topics in immunology and applications of immunochemistry. [Note 1: This course is cross-listed with BIOC 3051 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours)(Exclusion: BIOC 4011)

### BIOL 3111 (3.00 CR)
### ENVIRONMENTAL MICROBIOLOGY

**Prereq:** 3 credits from BIOL 2201 or BIOC 2001

This course covers the ecophysiology of microorganisms. The course surveys the key functional microbial groups which mediate major steps in the biogeochemical cycles, their ecological requirements and factors limiting their growth and activity. This leads to discussion of the roles of microorganisms in current issues in biology, industry and environmental science. (Format: Integrated Lecture and Laboratory 6 Hours) (Exclusion: Any version of BIOL 3111 previously offered with a different title)

### BIOL 3201 (3.00 CR)
### ANIMAL PHYSIOLOGY; ADAPTATION AND ENVIRONMENT

**Prereq:** BIOL 2401; BIOL 2701; or permission of the Department

This course focuses on the physiological processes underpinning a monumental step in the evolution of the vertebrates, the transition from water to land. It examines the respiratory, circulatory, acid-base and osmoregulatory adaptations seen in fish to mammals and studies the integration of animal physiology with the environment by investigating metabolism and temperature. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 3211 (3.00 CR)
### HUMAN PHYSIOLOGY

**Prereq:** Third-year standing; BIOL 1501; or permission of the Department

This course provides a comprehensive study of the physiology of the human body. It examines the function of the nervous, muscular, sensory, endocrine, respiratory, cardiovascular, and renal systems. [Note: Laboratory exercises with students as participants in experiments complement the course material and advance students' knowledge of important physiological processes.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusions: Any version of BIOL 3201 offered prior to 2015-2016; Any version of BIOL 3211 previously offered with a different title)

### BIOL 3221 (3.00 CR)
### HUMAN ANATOMY

**Prereq:** BIOL 2401

This course examines the structural organization of the human body, including the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive systems. It investigates these systems in the context of human health and disease. (Format: Lecture 3 Hours) (Exclusion BIOL 3991 Human Anatomy)

### BIOL 3301 (3.00 CR)
### PHYSIOLOGICAL PLANT ECOLOGY

**Prereq:** BIOL 2101; BIOL 2301; or permission of the Department

This course examines the ways by which plants respond to their environments. Topics include a discussion of transpiration and heat transfer, photosynthesis in nature, vernalization, photoperiodism and response to stresses such as drought, temperature, salinity and pollutants. (Format: Lecture and Laboratory 3 Hours) (Exclusion: BIOL 4301)

### BIOL 3351 (3.00 CR)
### MARINE BOTANY

**Prereq:** BIOL 2301; or permission of the Department

A lecture, laboratory, and field course summarizing recent advances in our understanding of macroscopic plant growth in the sea. This progress has been based upon studies involving morphology, development, physiology, and ecology. The following topics will be emphasized: the sea as an environment for plants to grow, production of marine plants, morphogenesis and geographic distribution of marine plants, and use of marine plants. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 3361 (3.00 CR)
### MARINE BIOLOGY I: COASTAL SYSTEMS

**Prereq:** BIOL 2101; 2401; or permission of the Department

This course investigates the ecology of estuarine, intertidal, and subtidal ecosystems at the individual, population and community level. Topics include community structure, food webs, reproductive biology of benthic organisms, and effects of physical and anthropogenic factors. [Note: The course includes a field trip to the Huntsman Marine Sciences Centre in St. Andrews, N.B. Students are expected to contribute to their accommodation costs.] (Format: Lecture 3 Hours, Field Trip)

### BIOL 3371 (3.00 CR)
### PRINCIPLES OF AQUACULTURE

**Prereq:** BIOL 2401; or permission of the Department

This course introduces the history, practice, and future of aquaculture with particular emphasis on development of finfish aquaculture in Atlantic Canada. Topics include biology of growth, culture of live feed, hatchery techniques, health, nutrition, engineering, economics, and public policy.(Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: BIOL 3991 Principles of Aquaculture)

### BIOL 3401 (3.00 CR)
### ANIMAL BEHAVIOUR

**Prereq:** BIOL 2101; BIOL 2401; or permission of the Department

A course which will present the development, physiology, ecology and evolution of animal behaviour. Topics to be discussed will include basic concepts of behavioural organization; physiology of behaviour, learning and memory phenomena; behaviour of communication; reproductive behaviour and mating systems; spatial distribution patterns and social systems; migrations and orientation mechanisms; feeding and anti-predator behaviours. Field excursions and laboratory exercises will permit students to observe and to quantify different behaviours in a variety of animal species. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 3421 (3.00 CR)
### BIOGEOGRAPHY

**Prereq:** GENS 2421; GENS 2431; or permission of the Department

This course explores the links between the geomorphology and climatology of a region and the plant-animal environments through a biogeographical approach to ecological studies. It focuses on the geography of plants including environmental controls of plant distributions and the functional and historical aspects of plant communities. [Note 1: This course is cross-listed with GENS 3421 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: GEOG 3421)

### BIOL 3451 (3.00 CR)
### ENTOMOLOGY

**Prereq:** BIOL 2401; or permission of the Department

Insects surpass all other organisms in their diversity and numbers, comprising over two thirds of the earth's known animals. This course will introduce students to this class of organisms by covering the following six areas: structure, function classification and phylogeny, behaviour and ecology. Throughout the course, evolutionary forces influencing the animals and systems involved will be stressed. Discussions will emphasize the use of the comparative methods to determine what these forces might be. (Format: Lecture 3 Hours, Laboratory/Field Trip 3 Hours)

### BIOL 3501 (3.00 CR)
### NATIVE FLORA (VASCULAR PLANTS)

**Prereq:** BIOL 2301; or permission of the Department

A field-oriented course on identification, taxonomy, and ecology of vascular plants. (Format: Lecture 3 Hours, Laboratory/Field Trip 3 Hours)

### BIOL 3511 (3.00 CR)
### INVERTEBRATE ZOOLOGY
**Prereq:** BIOL 2401; or permission of the Department

This course investigates in an evolutionary framework the variation in body plan, physiology, reproduction, and ecology for the more than thirty invertebrate phyla. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: BIOL 4511)

### BIOL 3601 (3.00 CR)
### ECOLOGICAL GENETICS
**Prereq:** BIOL 2601; BIOL 2801; or permission of the Department

This course investigates theoretical and observed changes in ecologically significant traits. It explores the connections between ecological properties of populations and evolutionary forces at work through the study of population structure, mathematical treatment of models, quantitative traits, and natural selection on phenotypic traits. (Format: Lecture 3 Hours)

### BIOL 3621 (3.00 CR)
### APPLIED GENETICS
**Prereq:** BIOL 2601; or permission of the Department

This course explores how genetic technologies can be used to solve current problems in biology, ranging from ecology to medicine. It teaches skills in current genetic technologies including some or all of: polymerase chain reaction (PCR), DNA extraction, gel electrophoresis, cytology, in situ hybridization, immunocytology, data mining, bioinformatics, conventional light microscopy, fluorescent microscopy, scanning electron microscopy, and related techniques. (Format: Integrated Lecture and Laboratory, 5 Hours)

### BIOL 3631 (3.00 CR)
### EMBRYOLOGY
**Prereq:** BIOL 2401; or permission of the Department

The course provides a foundation to the rapidly expanding field of Developmental Biology, which draws upon the disciplines of Cell Biology, Genetics, and Molecular Biology. This course focuses on the structural changes exhibited during the development, differentiation, and growth of organisms. Gametogenesis, fertilization, and embryogensis are closely examined in a variety of model organisms. Laboratory exercises are aimed at reinforcing the student's understanding of the concepts and stages of development.(Format: Lecture 3 Hours, Laboratory 3 hours) (Exclusion: BIOL 3311)

### BIOL 3641 (3.00 CR)
### GENETIC REGULATION OF DEVELOPMENT
**Prereq:** BIOL 2601; or permission of the Department

This course focuses on the mechanisms responsible for controlling development. Topics may include signaling pathways, homeotic genes, epigenetic gene regulation, and applications including developmental diseases, cloning, and stem cells. (Format: Lecture 3 Hours) (Exclusion: BIOL 3311)

### BIOL 3651 (3.00 CR)
### INTRODUCTION TO ORNITHOLOGY
**Prereq:** BIOL 2101; BIOL 2401; or permission of the Department

An introduction to the study of birds through lectures, laboratories and field trips. All of the bird families represented in the Maritime region will be discussed, with special emphasis on anatomy, structural adaptations, behaviour and physiology. The species composing the bird communities of the Sackville area will be examined during field trips. (Format: Lecture 3 Hours, Laboratory/Field Trip 3 Hours)

### BIOL 3711 (3.00 CR)
### BIOCHEMICAL ECOLOGY
**Prereq:** BIOL 2101; BIOC 2001; or permission of the Biology Department

This course deals with the biochemistry of interactions between animals, plants and microorganisms that occur in the natural environment. It places strong emphasis on the role of so-called "secondary metabolites" or "natural products" such as alkaloids, flavonoids, terpenoids, etc., in the insect-plant, vertebrate-plant, plant-plant and vertebrate-vertebrate relationships. (Format: Seminar 3 Hours) [Note 1: This course is cross-listed with BIOC 3711 and may therefore count as three credits in either discipline.]

### BIOL 3751 (3.00 CR)
### COMPARATIVE CHORDATE ANATOMY
**Prereq:** BIOL 2401; or permission of the Department

A lecture and laboratory course in which the structure, function and diversity of vertebrate animals will be examined and compared. It will discuss successive modifications of structural and functional systems found in vertebrates, and speculate on the survival value of these systems and on their relationships to contemporary environments. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 3781 (3.00 CR)
### TROPICAL MARINE BIOLOGY
**Prereq:** BIOL 2101; 2401; or permission of the Department

This course introduces the fauna, flora and complex ecological and behavioural interactions of organisms in tropical habitats and allows independent research in such habitats. It includes on-site exploration of coral reefs, reef lagoons, mangrove swamps and rocky shores. [Note 1: The field component of this course usually takes place at a location in the Caribbean. Enrollment is limited and students should be aware of the additional costs of travel and participation fees.] (Format: Lecture 3 Hours, Field Trip; (Exclusion: BIOL 4701)

### BIOL 3801 (3.00 CR)
### THEORETICAL AND EVOLUTIONARY ECOLOGY
**Prereq:** Third-year standing; BIOL 2101; BIOL 2701; or permission of the Department

This course evaluates theories of population and evolutionary ecology that were introduced in BIOL 2101. Using a suite of mathematical and simulation techniques, it explores the effects of specific parameters on the predicted outcomes of evolutionary models and ecological models such as population growth, competition, predation, and community. The course assesses the limitations, application, and interpretation of outcomes for each examined model. (Format: Lecture 3 Hours)

### BIOL 3811 (3.00 CR)
### CONSERVATION BIOLOGY

**Prereq:** BIOL 2101; or permission of the Department

The field of conservation biology applies to the principles of ecology, biogeography, and population genetics to the mitigation of human impact and the maintenance of global biodiversity. The course will familiarize the student with the concepts and principles of conservation biology and will encourage active debate about threats to ecological integrity and the ways scientists attempt to cope with such threats. (Format: Lecture 3 Hours)

### BIOL 3911 (3.00 CR)
### PLANTS AND HUMAN SOCIETY

**Prereq:** Third-year standing; 3 credits from BIOL; or permission of the Department

This course investigates the interactions between plants and human societies from the introduction of agriculture until the present. It includes the consideration of the evolution of vascular plants, especially those important to agriculture and forestry. It emphasizes the origins of agriculture on various continents and discusses economic botany and the present day commercial uses of plants. It also considers interrelations between plants and societies in dietary, cultural and religious connotations. Finally, the course considers world food shortages, either present or potential, and possible ways to alleviate these. (Format: Lecture 3 Hours)

### BIOL 3941 (3.00 CR)
### PLANT PHYSIOLOGY

**Prereq:** 3 credits from BIOL 2301, BIOC 2001; or permission of the Department

This course presents a general introduction to the physiology of plants. Topics discussed include photosynthesis, from the level of light entrapment to that of the fixation of carbon dioxide; translocation of sugars and the storage of energy rich food reserves; transpiration and water loss from leaves; water uptake and transport within the plant; plant defense from perception of biotic or abiotic stress to the plant response; and mineral nutrition including uptake, transport, distribution, and use of nutrients. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### BIOL 3991 (3.00 CR)
### SPECIAL TOPIC IN BIOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOL 3991 more than once, provided the subject matter differs.]

### BIOL 4101 (3.00 CR)
### BEHAVIOURAL ECOLOGY

**Prereq:** BIOL 2801; BIOL 3401; or permission of the Department

A course to explore the relationships between animal behaviour and ecology, emphasizing the behavioural strategies which animals have evolved to enhance their survival and to increase their reproductive success. Topics such as foraging, living in groups, resource defence, sexual selection, parental care, mating systems, altruism and communication will be discussed within a neo-Darwinian framework using optimality models and game theory. (Format: Lecture 3 Hours)

### BIOL 4111 (3.00 CR)
### FIELD ECOLOGY

**Prereq:** BIOL 2101; 3 credits from BIOL 2701, 4711; or permission of the Department

This course introduces the basic principles of field ecology research, experimental design, and data analysis It considers various techniques used in quantitative field ecology, including the design of observational and manipulative studies, and methods used to quantify abundance of plants and animals, implementing these in a wide range of environments during the field week. (Format: Field course, Lecture 3 Hours) [Note 1: This course requires a 6-day field course component in August as well as regular class meetings through the term.]

### BIOL 4151 (3.00 CR)
### VIROLOGY

**Prereq:** Third year standing; BIOL 2201; BIOL 2601; or permission of the Department

This course introduces the fundamental features of animal, bacterial, and plant viruses. It covers the biochemical genetic features of viral structure and replication, techniques used in studying viruses, the evolution of viruses, cell defence against viruses, the history of viruses as the causal agents of animal and plant disease, and current antiviral strategies. It also discusses the role of viruses as agents of evolutionary change, and their use in modern molecular genetics. [Note 1: This course is cross-listed with BIOC 4151 and may therefore count as three credits in either discipline.](Format: Lecture 3 Hours)

### BIOL 4201 (3.00 CR)
### ENVIRONMENTAL PHYSIOLOGY AND BIOCHEMISTRY OF ANIMALS

**Prereq:** 3 credits from BIOL 3201, BIOL 3211, BIOC 2001; or permission of the Department

This course in animal physiology examines the physiological and biochemical strategies animals use to survive in diverse, often stressful environments. Using primary literature from scientific journals, this course focuses on animal responses to environmental conditions such as hypoxia/anoxia, high and low temperatures, overwintering, altitude, environmental pollutants, osmotic stress and UV radiation. [Note 1: Weekly discussion groups on recent topical papers form a major component of this course.] [Note 2: This course is cross-listed with BIOC 4201 and may therefore count as three credits in either discipline.] (Format: Seminar 3 hours) (Exclusion: Any version of BIOL 4201 previously offered with a different title)

### BIOL 4211 (3.00 CR)
### ENDOCRINOLOGY

**Prereq:** BIOL 3211; or permission of the Department

This course investigates vertebrate hormone systems and may examine some aspects of invertebrate systems. It discusses hormone synthesis, control of secretion, modes of secretion and general mechanisms of action and examines specific hormone systems such as the hypothalamus-pituitary axis, renin-angiotensin system, and pituitary-adrenal axis. (Format: Seminar 3 Hours)

### BIOL 4221 (3.00 CR)
### EXERCISE PHYSIOLOGY

**Prereq:** 3 credits from BIOL 3201, BIOL 3211; or permission of the Department

This course explores the metabolic and systemic basis of exercise, the physiology of training and performance and exercise under special conditions such as environment and disease. In addition to studying these fundamentals of exercise physiology, this course delves into recent research and advancements in the field. (Format: Seminar 3 Hours)

### BIOL 4311 (3.00 CR)
### NEUROPHYSIOLOGY

**Prereq:** BIOL 3211

This course investigates advanced topics in neurophysiology including neuro- and glio-transmission, the physiology and plasticity of synapses, and neuronal circuits that underlie behaviour. It also discusses the development and pathophysiology of the nervous system. (Format: Lecture/Seminar 3 Hours) (Exclusion: BIOL 4991 Special Topics in Neurophysiology)

### BIOL 4371 (3.00 CR)
### ADVANCED TOPICS IN MARINE SCIENCE

**Prereq:** Third-year standing; BIOL 2101; or permission of the Department;

This course provides the opportunity for in-depth research of selected topics from the most current and progressive areas of marine science such as advances in biological, geological, chemical and physical oceanography and methodologies such as genomic approach to assessment of oceanic biodiversity and application of remote technology in marine exploration of the deep sea. The course emphasizes specific topics of global significance such as interactions between ocean and atmosphere, integrative and sustainable aquaculture, invasive biology, and marine pollution. (Format: Lecture 3 hours) (Exclusion: Any version of BIOL 4371 previously offered with a different title)

### BIOL 4401 (3.00 CR)
### EVOLUTIONARY BIOLOGY OF SEX AND REPRODUCTION

**Prereq:** BIOL 2801; BIOL 3401; or permission of the Department

This is a seminar/discussion course on the evolution of sexuality and various reproductive patterns. Topics covered will include (but not be limited to): what is sex, sexual and asexual reproduction, asexual reproduction and parthenogenesis, the role of sex in evolution, Muller's Ratchet vs. the Red Queen, genetic and epigenetic sex determination, sexual selection, mating strategies of males and females, role of parasites in the evolution of sex, fertilization strategies and hermaphroditism. (Format: Seminar 3 Hours)

### BIOL 4411 (3.00 CR)
### ECOLOGY AND BIOLOGY OF FISHES

**Prereq:** BIOL 2101; BIOL 2401; 3 credits from BIOL 2701, GENS 2431, MATH 2311, PSYC 2001; or permission of the Department

This course provides an overview of the general biology of fish-like chordates, with particular emphasis on the teleost fishes and on adaptations that have allowed fishes to become the most evolutionary successful group of vertebrates. Topics include: aspects of form and function, ecology and behaviour, and fisheries management. (Format: Lecture 3 Hours, Laboratory 3 Hours/Field Trip 3 Hours) (Exclusion: BIOL 3411)

### BIOL 4621 (3.00 CR)
### GENES, CELLS, AND DISEASE

**Prereq:** BIOL 2601; 3 credits from BIOL 3211, BIOL 3621, BIOC 3031; or permission of the Department

This course examines the genetic basis of cellular processes and organelles such as telomeres, nuclear architecture, cytoskeleton, intracellular transport, the extracellular matrix, cell cycle control, and the contribution to disease when these processes are abnormal.(Format: Lecture 3 Hours) (Exclusion: BIOL 3991 Genes, Cells, and Disease; BIOL 4991 Genes, Cells, and Disease)

### BIOL 4711 (3.00 CR)
### ADVANCED DESIGN AND STATISTICAL ANALYSIS

**Prereq:** 3 credits from MATH 2311, PSYC 2011, BIOL 2701, GENS 2431; or permission of the Department

This course investigates how to design studies with clear hypotheses, select appropriate statistical methods, and carry out the analyses, applying the techniques to real data sets. It reviews a variety of statistical techniques including advanced ANOVA and regression, techniques for categorical data, resampling methods, MANOVA, and other multivariate techniques. It also considers experimental design issues such as power analysis and pseudoreplication. (Format: Lecture 3 Hours, Laboratory 2 Hours) [Note: Throughout the course, data analyses are conducted using R.]

### BIOL 4903 (3.00 CR)
### CURRENT ADVANCES IN BIOLOGY

**Coreq:** BIOL 4990

A seminar course for Honours students in Biology which will critically evaluate a wide range of topics from the current literature in all branches of biological science. Students will be expected to deliver seminars on topics outside their thesis area and present preliminary thesis results. (Format: Lecture/Seminar 3 Hours)

### BIOL 4950 (6.00 CR)
### INDEPENDENT STUDY IN BIOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for BIOL 4950/51 more than once, provided the subject matter differs.]

### BIOL 4951 (3.00 CR)
### INDEPENDENT STUDY IN BIOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for BIOL 4950/51 more than once, provided the subject matter differs.]

### BIOL 4990 (6.00 CR)
### HONOURS THESIS

**Coreq:** BIOL 4903

The thesis requires a report on one or more laboratory, library or field investigations carried out by arrangement with and under the direction of an appropriate member of the staff. This course is open only to candidates for Honours in Biology in their senior year. A minimum grade of B is required in this course for successful completion of an honours degree. (Format: Independent Study/Thesis) [Note 1: Consent of supervising staff member prior to registration and permission of the Program Advisor is required]

### BIOL 4991 (3.00 CR)
### SPECIAL TOPIC IN BIOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for BIOL 4991 more than once, provided the subject matter differs.]

# CANADIAN PUBLIC POLICY

## Interdisciplinary B.A. Program

### MAJOR in CANADIAN PUBLIC POLICY is 60 credits earned as follows:

18 from COMM 2101, 2131, 2301, COMP 1631, MATH 1111, 2311
27 from ECON 1001 and 1011, 2301, 2311, 3101, 3111, POLS 1001, 2101, 3101, 3111
6 from HIST 3431, 3441, 4420, SOCI 3521, ANTH 3851
9 from courses at the 3/4000 levels in Canadian Studies, Commerce, Economics, French, Geography and Environment, Political Science, Philosophy, Sociology and Anthropology, chosen in consultation with the Program Advisor

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

# CANADIAN STUDIES

Canadian Studies seeks to analyse and explain the Canadian experience in all of its dimensions. These include Canada's vast and varied geographical character, its regional distinctions, its history and politics, its cultures and economy, its urban, modern and multicultural realities. An important feature of Canadian Studies is the analysis of Canada's place in the world. Questions about Canada and the world are addressed across departments and disciplines at the university. The Canadian Studies Program approaches these questions by drawing together the analytical strengths and content of individual disciplines in the humanities, the social sciences, and the sciences. The multi-disciplinary and interdisciplinary approaches of Canadian Studies core courses are a distinguishing feature of Canadian Studies.

There are many reasons for taking Canadian Studies. The program's courses provide students with skills and knowledge that graduates find very valuable in their working lives - as teachers in the classroom; as government employees at various levels - municipal, provincial, national and international; as individuals working in the private sector or in business. The multi-disciplinary or interdisciplinary approaches of Canadian Studies core courses provide students the opportunity to develop unique and flexible analytical skills.

Mount Allison's Canadian Studies Program offers courses leading to a Minor, Major, or Honours as well as a range of courses that can be taken as electives or as distribution credits. Students looking for more information about Canadian Studies at Mount Allison may consult the program web page or the Program Advisor.

## Interdisciplinary B.A. Programs

### MINOR in Canadian Studies is 24 credits earned as follows:

6 from CANA 1001, 1011
15 from CANA 2121, 2421, 2431, 2991, 3111, 3301, 3401, 3991 chosen in consultation with the Program Advisor
3 from CANA 4601, 4611, 4991 chosen in consultation with the Program Advisor

### MAJOR in Canadian Studies is 60 credits earned as follows:

6 from CANA 1001 and 1011
6 from CANA 2121, 2421, 2431, 2991
9 from CANA 3111, 3301, 3401, 3991
6 from CANA 4601, 4611, 4991
9 from English 1/2000 series, ECON 1001, 1011, FINH 2101, 2111, FREN 1811, MUSC 2011, POLS 1001, HIST 2411, 2421, GENV 1201, SOCI 1001, ANTH 1011
6 from FREN 1811 (if not used in the previous line), any French language course by placement, or any 3000 level course on the literature of French Canada, HIST 3411, 3431
18 from complementary courses where a significant Canadian Studies component can be demonstrated, chosen in consultation with the Program Advisor. The following courses are specifically recommended:

ANTH 3421, 3801, 3821, 3851
COMM 3271
ECON 2301, 2311, 3201, 3211, 4501
ENGL 2801, 3801, 3811, 3821, 3831,3841, 4801
FINH 3021, 3031
FREN 3721, 3731, 3741, 3861
GENV 2101,3511, 3531, 4201, 4821
HIST 2411, 2421 (if not used in line 5 above), 3401, 3411, 3431 (if not used in line 6 above), 3441, 3461 3471, 3481, 3491, 3811, 4411, 4420, 4441, 4461
INLR 4201
MUSC 3001
POLS 2101, 2211, 3101, 3111, 3141, 3151, 4121, 4141, 4300
SOCI 2111, 2211, 3521, 3531, 3541, 3551, 3711, 3721, 4551

### HONOURS in Canadian Studies is 72 credits earned as follows:

60 credits as in the Major, plus
3 further from CANA 2121, 2421, 2431, 2991, 3111, 3301, 3401, 3991, 4951, 4991
3 from CANA 4901
6 from CANA 4990

Courses chosen in consultation with the Program Advisor

## CANADIAN STUDIES COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### CANA 1001 (3.00 CR)
#### CONTEMPORARY CANADA: AN INTRODUCTION

This course provides an introduction to contemporary Canada as represented by its key social, political, and economic institutions. It examines the nature and character of Canadian institutions, communities, and values. (Format: Lecture/Tutorial 3 Hours) (Exclusion: CANA 2001)

#### CANA 1011 (3.00 CR)
#### REPRESENTING CANADA: AN INTRODUCTION TO CANADIAN CULTURE

This course provides an introduction to Canadian culture and identity. It examines key Canadian symbols and myths and various forms of cultural expression, including film, the arts, literature, and music in relation to Canadian national identity. (Format: Lecture/Tutorial 3 Hours) (Exclusion: CANA 2011)

### CANA 1991 (3.00 CR)
### SPECIAL TOPIC IN CANADIAN STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CANA 1991 more than once, provided the subject matter differs.]

### CANA 2121 (3.00 CR)
### CULTURAL DIVERSITY IN CANADA

**Prereq:** CANA 1001; CANA 1011; or permission of the Canadian Studies Program Advisor

This course explores plurality and diversity in Canada, from historical developments in demographic trends to multiculturalism and its policy frameworks. It examines current debates about Canadian identity and future developments in diversity in Canada. (Format: Lecture 3 Hours)(Exclusion: CANA 3121)

### CANA 2421 (3.00 CR)
### CANADIAN-AMERICAN RELATIONS

**Prereq:** 6 credits from CANA 1001, 1011; or 6 credits from CANA 2001, 2011; or permission of the Program Advisor

This course explores the political, economic, cultural, and social interaction between Canada and the United States. It pays special attention to the demise of the Canada-US 'special relationship', the current status of this relationship, and a comparative perspective of the values animating Canada and the United States as political communities. (Format: Lecture 3 Hours) (Exclusion: CANA 3421)

### CANA 2431 (3.00 CR)
### COMPARATIVE CANADIAN REGIONALISM

**Prereq:** 6 credits from CANA 1001 and 1011; or 6 credits from CANA 2001 and 2011; or permission of the Program Advisor

This course explores regionalism as a key dynamic of Canadian political-economic, geographic, and cultural life. The course pays particular attention to regional diversity in Canada and to the changing character of Canadian regionalism. (Format: Lecture 3 Hours)(Exclusion: CANA 3431)

### CANA 2991 (3.00 CR)
### SPECIAL TOPIC IN CANADIAN STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CANA 2991 more than once, provided the subject matter differs.]

### CANA 3111 (3.00 CR)
### INDIGENOUS CANADA

**Prereq:** 6 credits from CANA 1001, 1011; or 6 credits from CANA 2001 and 2011; or permission of the Program Advisor

This course explores Indigenous Canada from an interdisciplinary perspective. Topics include: Indigenous history in Canada, the development of Indigenous arts and culture in Canada, Indigenous philosophy and ethics, and the politics of self-government among various Indigenous communities. (Format: Lecture 3 Hours)(Exclusion: Any version of CANA 3111 previously offered with a different title)

### CANA 3301 (3.00 CR)
### GENDER IN CANADA

**Prereq:** 6 credits from CANA 1001, 1011; or 6 credits from CANA 2001, 2011; or permission of the Program Advisor

This course provides an interdisciplinary perspective on gender in Canada. It explores how gender experience in the country has been shaped by various factors including interactions with the state and the law, identity politics, region, protests, and activism, and the impact of Canadian feminism, Indigenous women, and recent immigrants. (Format: Lecture 3 Hours)(Exclusion: Any version of CANA 3301 previously offered with a different title)

### CANA 3401 (3.00 CR)
### CONTEMPORARY CANADIAN ISSUES

**Prereq:** Second-year standing; 6 credits from Humanities, Social Sciences; or permission of the Program Advisor

This course explores contemporary Canadian issues in light of the evolution and development of Canadian institutions, belief systems and social relations. (Format: Lecture 3 Hours) (Exclusion: CANA 3400)

### CANA 3991 (3.00 CR)
### SPECIAL TOPIC IN CANADIAN STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CANA 3991 more than once, provided the subject matter differs.]

### CANA 4601 (3.00 CR)
### INTERDISCIPLINARY SEMINAR IN CANADIAN STUDIES

**Prereq:** CANA 2001; CANA 2011; or permission of the Program Director

This is an interdisciplinary seminar on questions of importance in Canadian Studies. (Format: Seminar 3 Hours) (Exclusion: CANA 4600)

### CANA 4611 (3.00 CR)
### ADVANCED STUDIES ON MAJOR CANADIAN ISSUES

**Prereq:** CANA 2001; CANA 2011; or permission of the Program Director

This course provides an in-depth, advanced examination of key Canadian issues. (Format: Seminar 3 Hours) (Exclusion: CANA 4600)

### CANA 4901 (3.00 CR)
### DIRECTED READINGS IN CANADIAN STUDIES

**Coreq:** CANA 4990; or permission of the Program Director

This course is required of honours students. It promotes bibliographic and information literacy skills and familiarizes students with the larger-scale organization of secondary literature in Canadian Studies. (Format: Seminar 3 Hours)

### CANA 4950 (6.00 CR)
### INDEPENDENT STUDY IN CANADIAN STUDIES

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study.(Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for CANA 4950/51 more than once, provided the subject matter differs.]

### CANA 4951 (3.00 CR)
### INDEPENDENT STUDY IN CANADIAN STUDIES

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study.(Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for CANA 4950/51 more than once, provided the subject matter differs.]

### CANA 4990 (6.00 CR)
### HONOURS THESIS

**Coreq:** CANA 4901; or permission of the Program Director

Supervised by the Advisor and with one or more members of the faculty associated with the Program. The subject must be approved by the Advisor. The candidate will receive instruction in the techniques of research methods and thesis writing. (Format: Thesis) [Note 1: Permission of the Program Advisor]

### CANA 4991 (3.00 CR)
### SPECIAL TOPIC IN CANADIAN STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CANA 4991 more than once, provided the subject matter differs.]

# CHEMISTRY

Chemistry is the branch of physical science involving the study of the composition of substances, the ways in which their properties are related to their composition, and the interaction of substances to produce new materials. This subject occupies a central place among the sciences, it draws on the facts and theories of physics, and on mathematics for the tools necessary to evaluate and express quantitative chemical information. Chemistry in turn, provides terminology, facts, principles and methods that are essential to many aspects of other sciences. The applications of chemistry in fields such as agriculture, medicine, pharmacology, pharmacy, engineering and oceanography are numerous.

Mount Allison's undergraduate chemistry program is fully accredited by the Canadian Society for Chemistry (CSC). The program is designed to provide students with an education in the main branches of the subject, namely, analytical, inorganic, organic, physical and computational chemistry. The broad objectives of the Department are summarized in the following definition of education:

> Education is learning to appraise data critically, to try to think up an intellectual framework, to be able to test it, to be able to marshal facts, to be able to write about them, to be able to communicate with people who may - and almost certainly will - have less knowledge of those facts than you have, because they will be asking you questions about them with a view to taking some action. (F. Dainton)

Students interested in pursuing a Major or Minor in Chemistry or Chemistry Honours, should consult the Departmental Website and a faculty member of the Department before completion of registration.

## Disciplinary B.Sc. Programs

### MINOR in Chemistry is 24 credits earned as follows:

- 6 from CHEM 1001, 1021
- 3 from MATH 1111
- 9 from Chemistry at the 2000 level*
- 6 from Chemistry at the 3/4000 levels

**Note:** *Where insufficient Chemistry courses are available at the 2000 level to fulfill this requirement, Chemistry courses at the 3/4000 levels may be substituted. Students cannot count CHEM 2511 towards a Minor.

### MAJOR in Chemistry is 60 credits earned as follows:

- 6 from CHEM 1001, 1021
- 6 from MATH 1111, 1121
- 3 from Mathematics at the 2000 level**
- 6 from BIOC 1001, 2001
- 6 from PHYS 1051, 1551***
- 12 from CHEM 2111, 2211, 2311, 2411
- 12 from CHEM 2121, 3231, 3321, 3421
- 9 from Chemistry at the 3/4000 level, one of which must contain a lab, chosen in consultation with the Program Advisor

**Note:** *** It is recommended that Chemistry Majors take Physics 1551 in their first or second year.

**Note:** Additional 3/4000 level courses are needed to fulfill Calendar regulation 11.3.5

## THE CHEMISTRY HONOURS PROGRAM

Students with a special interest in Chemistry and those who, after obtaining the B.Sc. degree, wish to continue their studies at the post-graduate level, should consider following the Chemistry Honours program. The courses required for the B.Sc. Chemistry Honours degree are all listed below. The required chemistry credits are ones that provide for study of the main branches of Chemistry in some depth. The required nine credits from Mathematics and the six credits from Physics give minimum background essential for work in Chemistry. Honours students are given a special opportunity to participate in chemical research with faculty members in the Thesis (CHEM 4990) course. This research is normally carried out in the summer months following the third year.

## HONOURS in Chemistry is 81 credits earned as follows:

51 credits as in first 7 lines of Major**, plus
21 from Chemistry at the 3/4000 level, chosen in consultation with the Program Advisor
3 from CHEM 4903
6 from CHEM 4990

## CHEMISTRY LABORATORY WORK

Most Chemistry courses in the first three years have laboratory classes of about three hours duration each week as indicated in the course description.

## GRADUATE STUDIES IN CHEMISTRY

The Department of Chemistry & Biochemistry offers a program of research courses leading to the Master of Science degree. The research interests in the Department are varied and further information can be obtained from the Department Head or from individual faculty members. The requirements for the M.Sc. degree are given in Section 11.4. Individual programs are arranged, depending on the student's background and interests.

## CHEMISTRY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

**Note:** The following courses are subject to an instructional supply fee - CHEM 1001, 1021, 2111, 2121, 2211, 2311, 2411, 3111, 3231, 3321, 3331, 3421.

### CHEM 1001 (3.00 CR)
### INTRODUCTORY CHEMISTRY I

Fundamental concepts of introductory chemistry will be covered and expanded upon, including stiochiometry and redox processes. The Atomic theory will be introduced by discussion about the periodic table. Chemical bonding will be developed leading to the three-dimensional nature of matter for both organic and inorganic materials. Finally, an introduction to intermolecular forces and thermodynamic phase diagrams and related properties will be covered. (Format: Lecture 3 Hours, Laboratory 3 Hours, Regular Tutorials.)

### CHEM 1021 (3.00 CR)
### INTRODUCTORY CHEMISTRY II

**Prereq:** CHEM 1001; or permission of the Department

The quantitative nature of chemistry will be developed through discussions involving thermodynamics, kinetics and equilibrium processes. Qualitative concepts introduced in Introductory Chemistry I (CHEM 1001) will be expanded to include this quantitative nature of matter. As well, a brief discussion of redox properties and electrochemistry will be introduced. (Format: Lecture 3 Hours, Laboratory 3 Hours, Regular Tutorials.)

### CHEM 1991 (3.00 CR)
### SPECIAL TOPIC IN CHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CHEM 1991 more than once, provided the subject matter differs.]

### CHEM 2111 (3.00 CR)
### ORGANIC CHEMISTRY I

**Prereq:** CHEM 1021; or permission of the Department

Structural basics including aromaticity, resonance, and stereochemistry will be emphasized and developed. An appreciation of the link between structure, mechanism and reactivity will be explored. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: CHEM 2101; CHEM 2131; CHEM 2141)

### CHEM 2121 (3.00 CR)
### ORGANIC CHEMISTRY II

**Prereq:** CHEM 2111; or permission of the Department

Functional group chemistry will be used to develop more sophisticated mechanistic skills. Problems in organic synthesis will be studied within a mechanistic context. An introduction to the interpretation of first order proton nmr spectra will be included. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: CHEM 2101; CHEM 2131; CHEM 2151)

### CHEM 2211 (3.00 CR)
### INTRODUCTORY PHYSICAL CHEMISTRY

**Prereq:** CHEM 1021; MATH 1121; PHYS 1051 recommended; or permission of the Department

This course introduces the fundamental principles of thermodynamics, including the laws of thermodynamics and their applications to ideal systems, mixtures, and chemical equilibria. It also examines the historical development of quantum theory and the postulates of quantum mechanics and how they apply to simple physical systems, such as particle in a box and harmonic oscillator. (Format: Lecture 3 Hours, Laboratory 3 Hours, Tutorials) (Exclusion: Any version of CHEM 2211 previously offered with a different title)

### CHEM 2311 (3.00 CR)
### INORGANIC CHEMISTRY I: CO-ORDINATION CHEMISTRY

**Prereq:** CHEM 1021; or permission of the Department

Lewis acid-base chemistry and applications to transition metals will be discussed. Concepts covered will include structure and bonding, ligand field theory, magnetism and electronics. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: CHEM 3311)

### CHEM 2411 (3.00 CR)
### ANALYTICAL CHEMISTRY I

**Prereq:** CHEM 1021; MATH 1111 recommended; or permission of the Department

This course covers the following topics with an emphasis on problem solving: the treatment of errors and statistics of measurements; aqueous solutions, complex equilibria (including acid/base and buffer systems); electrochemistry theory; redox, electrode potentials (ion selective electrodes), and electrogravimetry. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: CHEM 3411)

### CHEM 2511 (3.00 CR)
### INTRODUCTION TO ENVIRONMENTAL CHEMISTRY

**Prereq:** CHEM 1021; or permission of the Department

This course introduces environmental chemistry to students in a life sciences program. The subject matter primarily deals with the chemistry of the atmosphere and hydrosphere at an introductory level, with an emphasis on problem solving skills. [Note 1: CHEM 2511 credit will not fulfill any Chemistry requirements for a Minor, Major or Honours degree in Chemistry.] (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: Any version of CHEM 2511 previously offered with a different title)

### CHEM 2991 (3.00 CR)
### SPECIAL TOPIC IN CHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CHEM 2991 more than once, provided the subject matter differs.]

### CHEM 3111 (3.00 CR)
### INTERMEDIATE ORGANIC CHEMISTRY

**Prereq:** CHEM 2121; or permission of the Department

This course introduces common spectroscopic techniques in the context of structure elucidation. Frontier Molecular Orbital Theory, and the application of synthetic reactions to total synthesis. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any verson of CHEM 3111 previously offered with a different title)

### CHEM 3131 (3.00 CR)
### ORGANIC CHEMISTRY: BIOORGANIC

**Prereq:** CHEM 2121; or permission of the Department

This course presents the principles of organic chemistry as they apply to biochemical problems. Topics covered include enzymic reaction mechanisms, enzyme cofactors, peptide and nucleic acid synthesis, and enzymes in organic synthesis. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with BIOC 3131 and may therefore count as three credits in either discipline. Chemistry students should register for CHEM 3131.]

### CHEM 3161 (3.00 CR)
### EXPERIENTIAL SYNTHETIC CHEMISTRY

**Prereq:** CHEM 2121; CHEM 2311; CHEM 3321; or permission of the Department

This course examines the planning and conducting of multi-step reaction sequences involving a range of synthetic organic and inorganic reactions and techniques, including those required for the manipulation of air-sensitive materials. It emphasizes purification of synthesized compounds and their characterization by a variety of spectroscopic and physical methods. (Format: Integrated Lecture and Laboratory, 6 Hours)

### CHEM 3231 (3.00 CR)
### ADVANCED PHYSICAL CHEMISTRY

**Prereq:** CHEM 2211; or 6 credits from PHYS 3701 and PHYS 3821; or permission of the Department

This course examines physical and chemical applications of kinetics, including those related to reaction mechanisms and dynamics. Specific topics include: experimental methods in kinetics; introduction to quantum mechanics needed to understand chemical kinetics; the potential energy surface (PES) for a chemical reaction and the effects of different features of the PES on the rate of chemical reactions; the effects of zero point energy and quantum tunneling on reaction rates. [Note 1: This course is cross-listed with CHEM 3231 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: CHEM 3221; any version of PHYS 3231 previously offered with a different title)

### CHEM 3251 (3.00 CR)
### PHYSICAL CHEMISTRY: SPECTROSCOPY

**Prereq:** PHYS 3821 (PHYS 3821 may be taken as a co-requisite); or permission of the Department

This course discusses the application of quantum chemistry in spectroscopy and surveys the principles of electronic, vibrational, rotational, and magnetic resonance spectroscopy. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of CHEM 3251 previously offered with a different title)

### CHEM 3261 (3.00 CR)
### PHYSICAL CHEM: SURFACE & INTERFACIAL

**Prereq:** CHEM 2211; or permission of the Department

This course investigates a broad range of fundamental topics in surface and interface science including: self-assembly, surface chemistry and monolayers, colloidal systems, liquid crystals, and modern experimental techniques. (Format: Lecture 3 Hours) (Exclusion: CHEM 3991 Surface and Interfacial Chemistry; CHEM 4261)

### CHEM 3271 (3.00 CR)
### NANOSCIENCE AND NANOTECHNOLOGY

**Prereq:** PHYS 1051; 3 credits from CHEM 2211 or CHEM 2411; or permission of the Department

This course examines the changes in physical and chemical properties that arise when systems are confined to nanoscale dimensions and discusses applications in electronics, photonics, and biotechnology. Topics may include: quantum confinement, scanning probe techniques, localized surface plasmon resonance, self-assembled monolayers, nanoparticle synthesis, and biological applications. (Format: Lecture 3 Hours) (Exclusion: CHEM 3991-Nanoscience and Nanotechnology -14/WI, 16/WI)

### CHEM 3321 (3.00 CR)
### INORGANIC CHEMISTRY II: MAIN GROUP ELEMENTS

**Prereq:** CHEM 1021; or permission of the Department

This course examines structure and bonding in main group compounds and discusses ionic and covalent bonding with respect to Lewis, valence shell electron pair repulsion, valence bond and molecular orbital theories as well as periodic trends and a survey of the properties and reactions of the elements of groups 1, 2 and 13 - 18. It presents an overview of state of the art spectroscopic techniques and their applications. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### CHEM 3421 (3.00 CR)
### ANALYTICAL CHEMISTRY II: INSTRUMENTAL METHODS OF ANALYSIS

**Prereq:** PHYS 1551; 3 credits from CHEM 2411, 3411; or permission of the Department

This course introduces the theoretical basis, scope and limitations of various instrumental methods of analysis, in the areas of Spectroscopy and Chromatography. Methods include GC/MS and HPLC for organic compounds, Atomic Absorption Spectroscopy (AAS) for metals and UV/VIS for both organic and inorganic compounds. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### CHEM 3751 (3.00 CR)
### ENERGY PRODUCTION AND THE ENVIRONMENT

**Prereq:** PHYS 1551; CHEM 1021; or permission of the Department

This course examines different aspects of energy harvesting, storage, and transmission with particular emphasis on the environmental impacts, sustainability, and development of renewable energy resources. It also introduces modern technologies based on the development of novel materials. Specific technologies and topics may include: wind power, photovoltaic generation, solar energy, nuclear fission, and fusion, hydroelectric, combustion based fuel generation, tidal energy and fuel cells. [Note 1: This course is cross-listed with PHYS 3751 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of PHYS 3751 previously offered with a different title)

### CHEM 3991 (3.00 CR)
### SPECIAL TOPIC IN CHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CHEM 3991 more than once, provided the subject matter differs.]

### CHEM 4131 (3.00 CR)
### ADVANCED ORGANIC CHEMISTRY

**Prereq:** CHEM 3111; or permission of the Department

This course investigates the synthesis of complex organic molecules. Topics include: conformational analysis, stereoselectivity, transition metal mediated reactions, radical reactions, mechanisms, and synthetic strategy. (Format: Lecture 3 Hours) (Exclusion: CHEM 4101; any version of CHEM 4131 previously offered with a different title)

### CHEM 4141 (3.00 CR)
### PHYSICAL ORGANIC CHEMISTRY

**Prereq:** CHEM 3111; CHEM 3231; or permission of the Department

This course examines the principles of bonding, structure, and mechanisms in organic chemistry. Topics include: models of bonding, acid/base catalysis, linear free-energy relationships, dynamic NMR, concerted reactions and orbital symmetry, transition-state theory and intramolecular dynamics, thermodynamics, and molecular motors. (Format: Lecture 3 Hours) (Exclusion: CHEM 4111; any version of CHEM 4141 previously offered with a different title)

### CHEM 4211 (3.00 CR)
### PHYSICAL CHEMISTRY: STATISTICAL THERMODYNAMICS

**Prereq:** PHYS 3701, 3821; or permission of the Department

This course will address the connection between the microscopic and macroscopic world by providing an introduction to the probabilistic nature of physical chemistry. Partition functions will be calculated from the various contributions to the total energy for simplified models of actual systems. Thermodynamic quantities will then be derived in terms of partition functions. Applications relevant to the interests of students will be discussed with an emphasis on recent literature. (Format: Lecture 3 Hours, Major Term Project) (Exclusion: CHEM 4201)

### CHEM 4241 (3.00 CR)
### PHYSICAL CHEMISTRY: COMPUTATIONAL

**Prereq:** 3 credits from CHEM 3231, PHYS 3821; or permission of the Department

This course focuses on a basic knowledge of the methods currently used in computational chemistry. It addresses approximations involved in the application of quantum mechanics to chemical systems, and how these approximations can be systematically improved, and considers practical aspects of computational chemistry programs. (Format: Lecture 3 Hours, Laboratory 1.5 Hours)

### CHEM 4331 (3.00 CR)
### INORGANIC CHEMISTRY: ORGANOMETALLICS

**Prereq:** CHEM 2121; CHEM 3321; or permission of the Department

This course examines the structure, bonding, and reactivity of organotransition metal complexes. Topics include: the 18-electron rule, the isolobal analogy, catalysis, and the role metals play in organic synthesis. (Format: Lecture 3 Hours) (Exclusion: CHEM 3331)

### CHEM 4341 (3.00 CR)
### INORGANIC CHEMISTRY: PHYSICAL ASPECTS

**Prereq:** CHEM 2311; CHEM 3321; or permission of the Department

This course investigates applications of group theory in inorganic chemistry for molecular bonding, reaction mechanisms, and IR and Raman spectroscopic transformations for small molecules and ions. It explores the interpretation of multinuclear NMR, EPR, IR and Raman spectra and discusses the fundamental aspects of X-ray crystallography. (Format: Lecture 3 Hours) (Exclusion: CHEM 4311)

### CHEM 4351 (3.00 CR)
### INORGANIC CHEMISTRY: BIOINORGANIC

**Prereq:** CHEM 2311; CHEM 3321; or permission of the Department

This course examines the roles metals play in biochemical systems, and includes an overview of bioinorganic chemistry and a discussion of metals in medicine. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with BIOC 4351 and may therefore count as three credits in either discipline. Honours Chemistry students should register for CHEM 4351.]

### CHEM 4361 (3.00 CR)
### INORGANIC CHEMISTRY: STRUCTURE AND BONDING IN MAIN GROUP CHEMISTRY

**Prereq:** CHEM 2311; CHEM 3321; or permission of the Department

This course explores modern approaches to describing bonding in main group compounds with novel and unusual structures. Classes of compounds discussed include electron-deficient clusters, inorganic rings and polymers, and low coordinate main group centres. It also considers synthetic approaches, spectroscopic analysis, and industrial applications of these materials (Format: Lecture 3 Hours) (Exclusion: CHEM 3361)

### CHEM 4521 (3.00 CR)
### ENVIRONMENTAL CHEMISTRY

**Prereq:** Third-year standing; CHEM 2111; 3 credits from CHEM 2411, 3421; or permission of the Department

This course investigates chemical aspects of the environment and draws upon physical, organic, inorganic and analytical chemistry. It explores the natural chemical compositions of and anthropogenic effects on air, water and soil. Topics include ozone chemistry, smog, acid rain, global climate, DOM, metals, colloids, pE/pH, soil chemistry and wastes. (Format: Lecture 3 Hours,Tutorials 1.5 Hours)

### CHEM 4831 (3.00 CR)
### ADVANCED QUANTUM MECHANICS

**Prereq:** CHEM 3231; or 6 credits from PHYS 3821 and MATH 2221; or permission of the Department

This course extends the study of principles of quantum mechanics, comparing properties of continuous and discrete representations. It also develops time-independent perturbation theory for first order, second order, and degenerate cases and treats small perturbations through direct diagonalization of large matrices. This course examines variational principle, central force problems, elements of scattering theory, and the addition of quantized angular momenta. The course concludes with applications of quantum mechanics in molecules, aspects of relativistic quantum mechanics, time dependence in quantum and quantum statistics. [Note 1: This course is cross-listed with CHEM 4831 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: Any version of PHYS 4831 previously offered with a different title)

### CHEM 4903 (3.00 CR)
### CURRENT ADVANCES IN CHEMISTRY

**Coreq:** CHEM 4990

This is a course for Honours students in Chemistry which critically evaluates a wide range of topics from the current literature in all branches of Chemistry. Students are expected to deliver seminars on topics outside of their thesis area and to present preliminary thesis results. (Format: Seminar 3 Hours)

### CHEM 4950 (6.00 CR)
### INDEPENDENT STUDY IN CHEMISTRY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for CHEM 4950/51 more than once, provided the subject matter differs.]

### CHEM 4951 (3.00 CR)
### INDEPENDENT STUDY IN CHEMISTRY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for CHEM 4950/51 more than once, provided the subject matter differs.]

### CHEM 4990 (6.00 CR)
### HONOURS THESIS
**Coreq:** CHEM 4903

This will involve an extensive experimental or theoretical study culminating in the writing of a thesis. The research will be conducted under the supervision of a faculty member and will usually be carried out during the summer and the following year. (Format: Independent Study/Thesis) [Note 1: Permission of the Department is required.]

### CHEM 4991 (3.00 CR)
### SPECIAL TOPIC IN CHEMISTRY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CHEM 4991 more than once, provided the subject matter differs.]

# CLASSICS

Classical Studies is concerned primarily with the cultures of Greece and Rome and their contributions to Western civilization. It is unique among modern academic disciplines in the breadth of its approach to its subject. Classics is a field in which the specialist must be simultaneously linguist, literary critic, anthropologist, sociologist, and historian, not only of politics, but also of religion and art.

The cultures of Greece and Rome are fascinating and important in themselves, but seen in the context of their legacy the very special value that we attach to them comes to light. For many elements of our own culture - its language and literature, its social and political patterns, and its ideals - are deeply rooted in the experience and achievement of Greece and Rome.

The Department of Classics at Mount Allison offers the opportunity to study these ancient cultures through courses in history, mythology, art, archaeology, language, and literature. The history and literature of Greece and Rome can be approached either in the original languages or through courses using English translation. The study of ancient literature in translation makes it possible to gain an acquaintance with the thought and literary art of antiquity without studying Greek and Latin. But those deeply interested in the subject should bear in mind the importance of the languages themselves; the direct experience of the ancients through study of Greek and Latin, in order to be fruitful, should begin as early as possible in the university career.

The Humanities 1600 series is intended to provide an introduction to Humanities disciplines. These three-credit courses offered by the participating disciplines of Classics, History, Philosophy and Religious Studies are designed to acquaint beginning students with the methodologies typical of these disciplines and to familiarize them with the approaches taken, as well as the sorts of themes pursued and questions raised in those disciplines.

## Disciplinary B.A. Programs

### MINOR in Classical Studies is 24 credits earned as follows:

18 from Classics, Latin, or Greek; or PHIL 1601
6 from Classics, Latin, or Greek at the 3/4000 level
Students may choose a minor program with an emphasis on Ancient History, Classical Literature or Art and Archaeology

### MINOR in Greek is 24 credits earned as follows:

18 from GREK 1001, 1101, 2001, 2101, and Greek at the 3000 level
6 from Greek, Latin, or Classics

### MINOR in Latin is 24 credits earned as follows:

18 from LATI 1001, 1101, 2001, 2101, and Latin at the 3000 level
6 from Greek, Latin, or Classics

### MAJOR in Classical Studies is 60 credits earned as follows:

6 from LATI 1001, 1101, GREK 1001, 1101
36 from Classics, Greek, Latin, of which 24 must be from the 3/4000 level

18 from complementary courses in Arts and Letters and Humanities (or others), chosen in consultation with the Program Advisor

## HONOURS in Classical Studies is 72 credits earned as follows:

12 from LATI 1001, 1101, GREK 1001, 1101
6 from LATI 2001, 2101, GREK 2001, 2101
6 from Greek/Latin at the 3000/4000 level OR CLAS 4950/4951
48 from Classics/Greek/Latin, of which 33 must be at the 3/4000 level

## CLASSICAL STUDIES COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### CLAS 1631 (3.00 CR)
### GREECE AND ROME: THE FOUNDATIONS OF WESTERN CIVILIZATION

The political and social history of ancient Greece and Rome will be surveyed with a focus on the themes of Law, Politics, War, and Society. Special attention will be paid to Athens in the fifth and fourth centuries B.C.E. and to Rome under Caesar Augustus. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with HIST 1631 and may therefore count as 3 credits in either discipline.]

### CLAS 1641 (3.00 CR)
### CLASSICAL MYTHOLOGY: THE HERO'S QUEST

An introduction to the heroes and heroines of classical myth through the literature and art of ancient Greece and Rome. The course will examine the major cycles of Greek heroic saga, including stories about the Trojan War, the Wanderings of Odysseus, the exploits of Hercules, and the Voyage of Jason and the Argonauts, as well as the adventures of Aeneas and the foundation myths of Rome. (Format: Lecture 3 Hours)

### CLAS 1651 (3.00 CR)
### CLASSICAL MYTHOLOGY: GODS, GODDESSES, AND THE CREATION OF ORDER

An introduction to the gods and goddesses of classical myth in the literature, art, and religion of ancient Greece and Rome. The course will examine cosmogonies and divine myths in order to shed light on the views held by the Greeks and Romans about the nature of the relationship between mortal and immortal. (Format: Lecture 3 Hours)

### CLAS 1991 (3.00 CR)
### SPECIAL TOPIC IN CLASSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CLAS 1991 more than once, provided the subject matter differs.]

### CLAS 2021 (3.00 CR)
### ALEXANDER THE GREAT AND THE HELLENISTIC WORLD

An examination of the career of Alexander the Great and the Hellenistic era that followed his conquest of the eastern Mediterranean. Among the main themes included will be the goals of Alexander, the new political climate of kingship and patronage that he helped create, the interaction of the Greeks with the civilizations of Egypt and the East, and the integration of new cultural ideas into Greek society. [Note 1: This course is cross-listed with HIST 2021 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: CLAS/HIST 3011)

### CLAS 2051 (3.00 CR)
### WOMEN IN ANTIQUITY

Using written and material evidence, this course will explore the economic, social and political roles of women in the societies of ancient Greece and Rome, as well as the development of the Western idea of the female in antiquity. Secondarily, it will introduce and explore the social theories commonly applied to the study of gender in history. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with HIST 2051 and may therefore count as 3 credits in either discipline.]

### CLAS 2501 (3.00 CR)
### INTRODUCTION TO ARCHAEOLOGY

An introduction to the methods of archaeological excavation. This course aims to acquaint the student with the theory and basic techniques of archaeology. Examples showing both past and present archaeological research done in the Old and New Worlds will be used to illustrate the topics under discussion. (Format: Lecture 3 Hours)

### CLAS 2521 (3.00 CR)
### THE ARCHAEOLOGY OF DAILY LIFE IN THE GREEK AND ROMAN WORLD

An examination of the evidence used by archaeologists to recreate the social history of ancient Greece and Rome. The course will consider how archaeology can shed light on such topics as the lives of men, women, and children; the home; government; the economy; the army; and entertainment. (Format: Lecture 3 Hours)

### CLAS 2531 (3.00 CR)
### THE ARCHAEOLOGY OF RELIGION IN THE GREEK AND ROMAN WORLD

An examination of the evidence used by archaeologists to recreate the religions of the ancient Greeks and Romans. The course will consider how archaeology reveals ancient views and practices involved in the worship of the Olympian Gods; the religions of Egypt and the Near East; Royal and Emperor cults; Mithraism and mystery cults; Judaism; and early Christianity. (Format: Lecture 3 Hours)

### CLAS 2991 (3.00 CR)
### SPECIAL TOPIC IN CLASSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CLAS 2991 more than once, provided the subject matter differs.]

### CLAS 3001 (3.00 CR)
### DEMOCRACY AND IMPERIALISM IN CLASSICAL GREECE

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of archaic and classical Greek history and civilization from the emergence of the polis to the fall of the Athenian empire. Main themes include the development of political institutions, warfare, and gender relations. Emphasis is placed on historical methods and the interpretation of ancient evidence. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with HIST 3001 and may therefore count as 3 credits in either discipline.]

### CLAS 3021 (3.00 CR)
### CONQUEST AND EXPANSION: THE RISE AND FALL OF THE ROMAN REPUBLIC

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of the development of Rome from a small city-state into the leading power in the Mediterranean. Main themes include the conflict between Rome and Carthage, the conquest of the Hellenistic East, and the political and social changes in Roman society. There will be an emphasis on the analysis and interpretation of primary sources in translation. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with HIST 3021 and may therefore count as 3 credits in either discipline.]

### CLAS 3031 (3.00 CR)
### THE ROMAN EMPIRE: CENTRE AND PERIPHERY

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of the history of imperial Rome from the age of Augustus to that of Constantine. Main themes include the imperial form of government, the Roman army, urban development and its impact on society, and the conflicts between Romans and other cultures. There will be an emphasis on the analysis and interpretation of primary sources in translation. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with HIST 3031 and may therefore count as 3 credits in either discipline.]

### CLAS 3051 (3.00 CR)
### HEALTH AND MEDICINE IN THE ANCIENT WORLD

**Prereq:** Second-year standing; 3 credits from CLAS, HIST, PHIL; or permission of the Department

Employing both material and literary evidence, this course surveys the conditions of life and common ailments and treatments of the inhabitants of the Greek and Roman world from ca. 1000 B.C.E. to ca. 500 C.E.. It also examines the origins of Western medicine in Greek and Roman science, alongside its alternatives, such as magic. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with HIST 3051 and may therefore count as 3 credits in either discipline.]

### CLAS 3201 (3.00 CR)
### GREEK TRAGEDY

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

A study of Greek tragic drama as it developed in Athens of the fifth century B.C.E. The course will examine (in translation) the main surviving plays of Aeschylus, Sophocles, and Euripides. (Format: Lecture 3 Hours)

### CLAS 3211 (3.00 CR)
### GREEK AND ROMAN COMEDY

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

A study of Greek and Roman comic drama (in translation) as represented by the work of Aristophanes, Menander, Plautus, and Terence. (Format: Lecture 2 Hours)

### CLAS 3401 (3.00 CR)
### THE LYRIC POETRY OF GREECE AND ROME

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

A study of Greek and Roman poetry that expresses universal feelings of love and fear, celebration and personal aspiration. The course will examine the themes and forms of lyric poetry, as well as the role of the poet in society. The poems of Sappho, Archilochus, Pindar, Catullus, Propertius, Ovid, and others will be read in English translation. (Format: Lecture 3 Hours)

### CLAS 3411 (3.00 CR)
### THE EPIC POETRY OF GREECE AND ROME

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of the epic genre as it developed in ancient Greece and Rome. The focus of the course will be on Homer's Iliad and Odyssey and Virgil's Aeneid, with attention given to other representative works. The poems will be studied (in translation) both as products of their respective societies and in light of their influence on later European literature. (Format: Lecture 3 Hours)

### CLAS 3501 (3.00 CR)
### ARCHAEOLOGICAL FIELD COURSE

This course involves participation in an archaeological field project, through which students gain experience in archaeological methods such as site survey, supervised excavation, recording and interpretation of evidence, and the processing of finds. The field location varies according to the project. [Note 1: Permission of the Department is required. Note 2: This course is only available to students during the Spring/Summer term. Enrollment is limited and students should be aware of the additional costs of travel and participation fees.] (Format: Field Course) (Exclusion: ANTH 3321 if taken as archaeological field schools in which credit was received for excavation of material remains)

### CLAS 3511 (3.00 CR)
### LABORATORY METHODS IN CLASSICAL ARCHAEOLOGY

**Coreq:** CLAS 3501

This course introduces students to the laboratory methods used by Classical archaeologists in the study of materials recovered from Greek and Roman sites. The field location and nature of the remains studied vary according to the project. [Note 1: Permission of the Department is required. Note 2: This course is only available to students during the Spring/Summer term. Enrollment is limited and students should be aware of the additional costs of travel and participation fees.] (Format: Field Course) (Exclusion: ANTH 3321 if taken as archaeological field schools in which credit was received for laboratory analysis of material remains.)

### CLAS 3601 (3.00 CR)
### THE BIRTH OF GREEK ART

**Prereq:** Second-year standing; 3 credits from CLAS, FINH, HIST at the 1/2000 level; or permission of the Department; or permission of the Department

A study of the art and archaeology of the Greek world from the Bronze Age to the end of the Persian invasion. This period saw the rise and fall of two Bronze Age civilizations, and the emergence of Athens as the cultural and political leader of the Mediterranean world. The architecture, painting, sculpture, and minor arts will be studied with attention to their historical and cultural contexts. (Format: Lecture 3 Hours) [Note 1: This course may count as 3 credits in Art History.]

### CLAS 3611 (3.00 CR)
### THE SPLENDORS OF CLASSICAL AND HELLENISTIC GREEK ART

**Prereq:** Second-year standing; 3 credits from CLAS, FINH, HIST at the 1/2000 level; or permission of the Department

A study of the art and archaeology of the Greek world from the Persian invasion to the coming of the Romans. This period saw the achievements of Athenian democracy, the subsequent dissolution of Athenian power, the domination of the Macedonians under Alexander, and the spread of Greek culture throughout the Mediterranean and beyond. The architecture, painting, sculpture, and minor arts will be studied with attention to their historical and cultural contexts. (Format: Lecture 3 Hours) [Note 1: This course may count as 3 credits in Art History.]

### CLAS 3701 (3.00 CR)
### ETRUSCAN AND EARLY ROMAN ART AND ARCHAEOLOGY

**Prereq:** Second-year standing; 3 credits from CLAS, FINH, HIST at the 1/2000 level; or permission of the Department

A study of the art and archaeology of peninsular Italy from the Iron Age to the period of the Julio-Claudian emperors. It will examine Etruscan culture and its interaction with the Greeks and Romans, the rise of Rome, and the transitions from republic to empire. The material culture of Italy will be explored through the architecture, sculpture, painting, and minor arts. (Format: Lecture 3 Hours) [Note 1: This course may count as 3 credits in Art History.]

### CLAS 3711 (3.00 CR)
### THE ART OF IMPERIAL ROME AND ITS EMPIRE

**Prereq:** Second-year standing; 3 credits from CLAS, FINH, HIST at the 1/2000 level; or permission of the Department

A study of the art and archaeology of the Roman world from the reign of the emperor Nero to the time of Constantine. It will examine the development of art and architecture in Rome, the connections between this development and imperial policy, and the use and adaptation in other parts of the Roman world of ideas which originated in Rome. (Format: Lecture 3 Hours) [Note 1: This course may count as 3 credits in Art History.]

### CLAS 3991 (3.00 CR)
### SPECIAL TOPIC IN CLASSICS

**Prereq:** second-year standing; 3 Credits from CLAS, HIST, LATI, GREK at the 1/2000 level

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CLAS 3991 more than once, provided the subject matter differs.]

### CLAS 4950 (6.00 CR)
### INDEPENDENT STUDY IN CLASSICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for CLAS 4950/51 more than once, provided the subject matter differs.]

### CLAS 4951 (3.00 CR)
### INDEPENDENT STUDY IN CLASSICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for CLAS 4950/51 more than once, provided the subject matter differs.]

### CLAS 4991 (3.00 CR)
### SPECIAL TOPIC IN CLASSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for CLAS 4991 more than once, provided the subject matter differs.]

## GREEK COURSES

### GREK 1001 (3.00 CR)
### INTRODUCTORY ANCIENT GREEK I

An introduction to the grammar and vocabulary of ancient Greek for students with no previous knowledge of the language. Through grammatical exercises, composition, and the reading of prescribed texts, the student will develop a basic understanding of the language of classical Athens. Three class periods per week, plus a fourth hour to be arranged after classes have begun. (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: GREK 1000)

### GREK 1101 (3.00 CR)
### INTRODUCTORY ANCIENT GREEK II

**Prereq:** GREK 1001; or permission of the Department

A continuation of the study of the ancient Greek language. This course adds new grammar and continues to build vocabulary, while concentrating on the development of a reading facility in ancient Greek. Three class periods per week, plus a fourth hour to be arranged after classes have begun. (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: GREK 1000)

### GREK 1991 (3.00 CR)
### SPECIAL TOPIC IN GREEK

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GREK 1991 more than once, provided the subject matter differs.]

### GREK 2001 (3.00 CR)
### INTERMEDIATE GREEK

**Prereq:** GREK 1101; or permission of the Department

This course introduces students to the reading of unadapted passages from ancient authors. While the emphasis is on developing a fluency in reading Greek, it also reviews basic Greek grammar and presents some more advanced grammar and syntax. (Format: Lecture 3 Hours)

### GREK 2101 (3.00 CR)
### INTRODUCTORY READINGS IN GREEK LITERATURE

**Prereq:** GREK 2001; or permission of the Department

A reading of selected works by Greek authors. This course will acquaint the student with some of the forms of ancient prose and poetry. (Format: Lecture 3 Hours)

### GREK 2991 (3.00 CR)
### SPECIAL TOPIC IN GREEK

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GREK 2991 more than once, provided the subject matter differs.]

### GREK 3001 (3.00 CR)
### READINGS IN GREEK PROSE

**Prereq:** GREK 2101; or permission of the Department

The translation and study of the work of one or more Greek prose authors. (Format: Lecture 3 Hours)

### GREK 3101 (3.00 CR)
### READINGS IN GREEK POETRY

**Prereq:** GREK 2101; or permission of the Department

The translation and study of the work of one or more Greek poets. (Format: Lecture 3 Hours)

### GREK 3991 (3.00 CR)
### SPECIAL TOPIC IN GREEK

**Prereq:** 6 Credits from History and first year standing;

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GREK 3991 more than once, provided the subject matter differs.]

### GREK 4001 (3.00 CR)
### DIRECTED READINGS IN GREEK

This course is a detailed study of one or more Greek authors. (Format: Lecture 3 Hours) [Note 1: Permission of the Department required. Note 2: GREK 4001 may be taken for credit more than once if the topic differs.]

### GREK 4950 (6.00 CR)
### INDEPENDENT STUDY IN GREEK

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GREK 4950/51 more than once, provided the subject matter differs.]

### GREK 4951 (3.00 CR)
### INDEPENDENT STUDY IN GREEK

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GREK 4950/51 more than once, provided the subject matter differs.]

### GREK 4991 (3.00 CR)
### SPECIAL TOPIC IN GREEK

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GREK 4991 more than once, provided the subject matter differs.]

## LATIN COURSES

### LATI 1001 (3.00 CR)
### INTRODUCTORY LATIN I

An introduction to basic Latin grammar and vocabulary for students with no previous knowledge of the language. This course is based on readings which present not only the fundamentals of Latin but also the Roman world in which it was used. Some effort is made to show the connections between Latin and modern languages (English, French, Spanish).Three class periods per week, plus a fourth hour to be arranged after classes have begun. (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: LATI 1000)

### LATI 1101 (3.00 CR)
### INTRODUCTORY LATIN II

**Prereq:** LATI 1001; or permission of the Department

A continuation of the study of the Latin language. While adding new grammar, this course concentrates on reading comprehension and vocabulary building. Three class periods per week, plus a fourth hour to be arranged after classes have begun. (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: LATI 1000)

### LATI 1991 (3.00 CR)
### SPECIAL TOPIC IN LATIN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisites set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for LATI 1991 more than once, provided the subject matter differs.]

### LATI 2001 (3.00 CR)
### INTERMEDIATE LATIN

**Prereq:** LATI 1101; or permission of the Department

This course introduces students to the reading of unadapted passages from ancient authors. While the emphasis is on developing a fluency in reading Latin, it also reviews basic Latin grammar and presents some more advanced grammar and syntax. (Format: Lecture 3 Hours)

### LATI 2101 (3.00 CR)
### INTRODUCTORY READINGS IN LATIN LITERATURE

**Prereq:** LATI 2001; or permission of the Department

A reading of selected works by Latin authors. This course will acquaint the student with some of the forms of ancient prose and poetry. (Format: Lecture 3 Hours)

### LATI 2991 (3.00 CR)
### SPECIAL TOPIC IN LATIN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisites set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for LATI 2991 more than once, provided the subject matter differs.]

### LATI 3001 (3.00 CR)
### READINGS IN LATIN PROSE

**Prereq:** LATI 2101; or permission of the Department

The translation and study of the work of one or more Latin prose authors. (Format: Lecture 3 Hours)

### LATI 3101 (3.00 CR)
### READINGS IN LATIN POETRY

**Prereq:** LATI 2101; or permission of the Department

The translation and study of the work of one or more Latin poets. (Format: Lecture 3 Hours)

### LATI 3991 (3.00 CR)
### SPECIAL TOPIC IN LATIN

**Prereq:** Second-year standing; 6 credits from HIST; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisites set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for LATI 3991 more than once, provided the subject matter differs.]

### LATI 4001 (3.00 CR)
### DIRECTED READINGS IN LATIN

This course is a detailed study of one or more Latin authors. (Format: Lecture 3 Hours) [Note 1: Permission of the Department is required. Note 2: LATI 4001 may be taken for credit more than once if the topic differs.]

### LATI 4950 (6.00 CR)
### INDEPENDENT STUDY IN LATIN

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for LATI 4950/51 more than once, provided the subject matter differs.]

### LATI 4951 (3.00 CR)
### INDEPENDENT STUDY IN LATIN

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for LATI 4950/51 more than once, provided the subject matter differs.]

### LATI 4991 (3.00 CR)
### SPECIAL TOPIC IN LATIN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisites set by the Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for LATI 4991 more than once, provided the subject matter differs.]

# COGNITIVE SCIENCE

## Interdisciplinary B.Sc. Program

### MAJOR in Cognitive Science is 66 credits earned as follows:

9 from PSYC 1001, 1011, 2201
6 from PSYC 2101, 3111, 3201, 3211, 3101, 4101
9 from COMP 1631, 1731, 2611
3 from COMP 2631, 2931
3 from MATH 1111
6 from CHEM 1001, 1021
6 from PHYS 1051, 1551
6 from PSYC 2001 (or MATH 2311), 2011 (or MATH 2321)
9 from PHIL 2511, 3511, 4511
3 from LING 3001, 3011, PSYC 3221
6 from the following, with at least 3 being at the 3000 level: COMP 3651, 3851, 3611, COMP/MATH 2211, 3531, PHIL 2611, 3221, 3231, 3631, PHYS 3581, 3361

**Note:** Students pursuing the Interdisciplinary Major in Cognitive Science are reminded that Regulations 12.3.4 and 12.3.5 must still be fulfilled.

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

# COMMERCE/RON JOYCE CENTRE FOR BUSINESS STUDIES

**Note:** The Minor and Major in Commerce on a B.A. program are outlined below. For a description of program requirements for completion of a B.Comm. Please see Section 11.5.

## Disciplinary B.A. Programs

### MINOR in Commerce is 24 credits earned as follows:

9 credits from the following 12 credits: MATH 1111 or 1151, ECON 1001, 1011, and 3 credits in Computer Science
15 from Commerce, including at least 6 at the 3/4000 level

### MAJOR in Commerce is 60 credits earned as follows:

12 from COMM 2101, 2131, 2201, 2301
3 from Computer Science
6 from Economics (not including ECON 2701)
6 from Mathematics (not including MATH 1011)
21 from Commerce at the 3/4000 level
12 from complementary courses, chosen in consultation with the Program Advisor

**Note:**

1. COMM 3411, 3501, 4141, 4501, and 4521 may be designated as Economics electives for students taking a Major, Minor or Honours in Economics.
2. ECON 3201, 3211, 3301, 3601, 3711, 3921, 4501, 4511, 4611, 4621, 4700, 4801, 4811, 4821, 4990 and COMP 3851 are Commerce electives for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

# COMMERCE COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### COMM 1011 (3.00 CR)
#### APPLICATIONS IN BUSINESS STUDIES

This course introduces the study of organizations and management theory. It explores the interdisciplinary nature of business studies and examines the history of organizational studies. It also studies the interdependence between business and society, and exposes students to different types of organizations and their leaders. (Format: Lecture 3 Hours, Tutorial 1 Hour)

### COMM 1991 (3.00 CR)
### SPECIAL TOPIC IN COMMERCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMM 1991 more than once, provided the subject matter differs. (Format: Variable)

### COMM 2101 (3.00 CR)
### INTRODUCTORY FINANCIAL ACCOUNTING I

**Prereq:** 9 credits from ECON 1001, ECON 1011, MATH 1111 or 1151, 3 credits from COMP; or permission of the Department

This course introduces the accounting model and analysis of Financial Statements and the important concepts associated with them. (Format: Lecture/Problem Based Learning 3 Hours) (Exclusion: COMM 1111)

### COMM 2121 (3.00 CR)
### INTRODUCTORY FINANCIAL ACCOUNTING II

**Prereq:** COMM 2101; or permission of the Department

This course examines in greater detail the principles, practices and techniques of financial accounting first introduced in Commerce 2101. (Format: Lecture/Problem Based Learning 3 Hours) (Exclusion: COMM 1121)

### COMM 2131 (3.00 CR)
### MANAGEMENT ACCOUNTING

**Prereq:** COMM 2101; or permission of the Department

An introduction to the principles and practices of management accounting, with a concentration on the decision making process. Topics include the use of accounting data in short-run and long-run decision making; managerial planning, control, and internal performance evaluation; and an introduction to variance analysis. (Format: Lecture/Problem Based Learning/Projects 3 Hours)

### COMM 2201 (3.00 CR)
### FUNDAMENTALS OF MARKETING

**Prereq:** 9 credits from ECON 1001, ECON 1011, MATH 1111 or 1151, 3 credits from COMP; or permission of the Department

A consumer orientation is essential for effective marketing decision making. In this course, the meaning of products and services to the consumer is stressed. Students have the opportunity to develop fundamental skills in analysis, report writing, and presentations. (Format: Lecture/Case Study 3 Hours)

### COMM 2211 (3.00 CR)
### MARKETING MANAGEMENT

**Prereq:** COMM 2201; or permission of the Department

The development and implementation of marketing strategy is the primary concern of marketing management. This course covers the key elements of a marketing strategy: competitive positioning, product/service strategy, pricing strategy, distribution strategy and marketing communications strategy. Students are provided with opportunities to develop analytical, decision-making and communication skills. (Format: Case Discussion/Lecture/Projects 3 Hours)

### COMM 2301 (3.00 CR)
### ORGANIZATIONAL BEHAVIOUR I

**Prereq:** 9 credits from ECON 1001, ECON 1011, MATH 1111 or 1151, 3 credits from COMP; or permission of the Department

This course focuses on the micro aspects of organizational behaviour. It emphasizes human needs, motivation, perception, individual differences, personality, job design, work attitudes, performance appraisal, and stress management. The objective is to ensure that potential managers interact more effectively with subordinates, peers and superiors in the organizational setting. Teaching methodology includes lectures, discussions, and case analysis. (Format: Case Discussion/Lecture 3 Hours)

### COMM 2311 (3.00 CR)
### ORGANIZATIONAL BEHAVIOUR II

**Prereq:** COMM 2301; or permission of the Department

This course focuses on the macro aspects of organizational behaviour. Topics include group processes in the organization and their relationship to effectiveness, intergroup conflict, cooperation, leadership, communication, team dynamics, and organizational change. (Format: Case Discussion/Lecture 3 Hours) (Exclusion: COMM 3331)

### COMM 2991 (3.00 CR)
### SPECIAL TOPIC IN COMMERCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMM 2991 more than once, provided the subject matter differs.] (Format: Variable)

### COMM 3111 (3.00 CR)
### INTERMEDIATE ACCOUNTING I

**Prereq:** COMM 2121; or permission of the Department

This course expands basic accounting concepts learned in Commerce 2101 and 2121. It develops the general accounting theory of assets, liabilities, income, equity, and funds flow. Particular emphasis will be placed on the conceptual framework of accounting, revenue and expense recognition, asset and liability recognition, and measurement and disclosure. (Format: Case Discussion/Lecture/Problem Based Learning 3 Hours.)

### COMM 3121 (3.00 CR)
### INTERMEDIATE ACCOUNTING II

**Prereq:** COMM 3111; or permission of the Department

The following topics are discussed: shareholders' equity, dilutive securities, investments, and a series of special topics, including: corporate income taxes, pension costs, leases, and accounting changes and error analysis. (Format: Case Discussion/Lecture/Problem Based Learning 3 Hours)

### COMM 3131 (3.00 CR)
### COST ACCOUNTING
**Prereq:** COMM 2131; or permission of the Department

A study of the principles, procedures and techniques of analysis used in cost accounting. This course will cover operating budgets, product costing, predetermined costs, planning and control, relevant costs, and variance analysis. (Format: Lecture/Problem Based Learning 3 Hours)

### COMM 3151 (3.00 CR)
### TAXATION
**Prereq:** COMM 2131; or permission of the Department

The course will explore the basic principles of taxation in Canada, with emphasis on Canadian Income Tax. It stresses the effects of taxation on business decisions by individuals and corporations. (Format: Lecture/Problem Based Learning 3 Hours) (Exclusion: COMM 4111)

### COMM 3161 (3.00 CR)
### INTRODUCTION TO AUDITING
**Prereq:** COMM 2121; or permission of the Department

This course introduces the role of auditing in society and the ethics and standards of professional conduct expected of auditors. It develops a conceptual understanding of key decisions made by auditors when examining and reporting on financial statements. It develops an appreciation of the complex environment in comprehensive or value-for-money audit on corporations and public institutions. (Format: Lecture 3 Hours) (Exclusion: COMM 4151)

### COMM 3211 (3.00 CR)
### CONSUMER BEHAVIOUR
**Prereq:** COMM 2211; or permission of the Department

The course examines social, psychological, situational, and economic influences on the consumer decision-making process of individuals and families. It emphasizes new product adoption, marketing communications, and consumer research applications. (Format: Lecture/Application 3 Hours)

### COMM 3231 (3.00 CR)
### MARKETING CHANNELS OF DISTRIBUTION
**Prereq:** COMM 2211; or permission of the Department

Marketing strategy is implemented within the context of channels of distribution. This course studies distribution issues faced by manufacturers, wholesalers, retailers, and specialized institutions. It emphasizes inventory issues, product assortment decisions, channel negotiations, and channel change. (Format: Case Discussion/Lecture/Projects 3 Hours)

### COMM 3251 (3.00 CR)
### INTERNATIONAL MARKETING
**Prereq:** COMM 2211; or permission of the Department

Markets are becoming increasingly global. This course explores the managerial aspects of exporting and importing companies, multi-national firms, and small to large businesses serving global markets. (Format: Lecture/Case Study 3 Hours)

### COMM 3261 (3.00 CR)
### INTEGRATED MARKETING COMMUNICATIONS
**Prereq:** COMM 2211; or permission of the Department

This course provides a broad exposure to the promotional mix concentrating on integrated marketing communications and its key elements: advertising, personal selling, sales promotion, public relations, direct marketing, and other forms of communications. Canadian advertising institutions, government legislation and industry regulations are considered in relation to social and economic concepts. Emphasis is placed on understanding the marketing communications process and its place in an organization's planning process. (Format: Lecture/Experiential Learning Projects 3 Hours) (Exclusion: COMM 4251)

### COMM 3271 (3.00 CR)
### ARTS AND CULTURE MARKETING
**Prereq:** COMM 2211; or permission of the Department

This course examines the appropriate application of marketing management concepts and frameworks to arts and culture. Students gain familiarity with research issues and experience in identifying and resolving marketing problems in the arts and culture sector. [Note 1: Bachelor of Fine Arts or Bachelor of Music students already doing 3/4000 level work in their own field will be admitted to this course.] (Format: Lecture 3 Hours) (Exclusion: COMM 4241 if taken in Winter 2005 or Fall 2006)

### COMM 3321 (3.00 CR)
### HUMAN RESOURCE MANAGEMENT
**Prereq:** COMM 2301; or permission of the Department

This course examines human resource management functions in formal organizations, both public and private. Topics covered include human resource planning, recruitment, selection, performance appraisal and employment equity; training and development; compensation systems and the management of employee benefits; and the role of the human resource manager. (Format: Lecture 3 Hours)

### COMM 3341 (3.00 CR)
### ORGANIZATIONAL THEORY
**Prereq:** COMM 2311; or permission of the Department

This course examines current theory and research on the design of effective organizations. It focuses on interrelationships among an organization's formal and informal structures, culture, technology, and competitive environment and the different types of organizations resulting from different configurations of these elements. Topics may include power and politics in and about the organization, goal setting, organizational effectiveness and efficiency, and organizational renewal. (Format: Case Discussion/Lecture 3 Hours)

### COMM 3351 (3.00 CR)
### SMALL BUSINESS MANAGEMENT
**Prereq:** COMM 2131; COMM 2201; or permission of the Department

This course examines the structure of the small and micro-business sector in Canada and the United States and the most significant management issues characteristic of small enterprise. These include business opportunity assessment for small enterprises, competitive advantage, ownership and management structure, government/small business relations, planning, data-base management, financing, financial management, and marketing. (Format: Lecture 3 Hours)

### COMM 3361 (3.00 CR)
### ENTREPRENEURSHIP AND NEW VENTURE CREATION

**Prereq:** COMM 2131; COMM 2201; or permission of the Department

This course examines the process of business venture creation and start-up and of the role of the entrepreneur in this process. Topics include business opportunity assessment, the structure and function of the business plan, new venture financing, and the legal and regulatory aspects of start-up. (Format: Lecture 3 Hours)

### COMM 3371 (3.00 CR)
### ISSUES IN BUSINESS AND SOCIETY

**Prereq:** COMM 2131; COMM 2301; or permission of the Department

This course examines problems in managing relations between the firm and its many stakeholders, including shareholders, government, public interest groups, employees, other firms with which it does business, consumers, and society at large. Such topics as business ethics, the social responsibility of business, business and the environment, pluralism, foreign ownership, consumerism, and the multi-national organization are examined. (Format: Lecture 3 Hours) (Exclusion: COMM 4371)

### COMM 3381 (3.00 CR)
### GLOBAL CONTEXT OF BUSINESS

**Prereq:** 3 credits from COMM 2101, 2201, 2301; or permission of the Department

This course examines issues, challenges and opportunities that face managers in our interdependent global economy. A worldview perspective is used to examine the influence of political, economic, environmental, social, cultural and technological factors that influence how business is conducted in various parts of the world. It explores strategies for managing interactions with business, government and non-government organizations. (Format: Lecture 3 Hours) (Exclusion: COMM 2321; COMM 4801 if taken in Winter 2006)

### COMM 3401 (3.00 CR)
### RESEARCH METHODS IN BUSINESS

**Prereq:** 3 credits from MATH 2321, ECON 2701, PSYC 2011; or permission of the Department

This course introduces students to the process of research to illuminate the academic and practical significance of research activities. Students are exposed to different research methodologies and how these underlying methodologies inform the research process. Topics include qualitative and quantitative research methodologies, developing data collection strategies and tools, and selecting appropriate methods to analyze data. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: COMM 4231)

### COMM 3411 (3.00 CR)
### MANAGEMENT SCIENCE

**Prereq:** 3 credits from MATH 1111, 1151; 3 credits from MATH 2321, ECON 2701, PSYC 2011; 3 credits from COMP; or permission of the Department

This course examines formalized methods of arriving at business decisions. Topics will be selected from, but not limited to, constrained optimization models, decision models, game theory, network models, forecasting and dynamic programming. [Note 1: Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.] (Format: Lecture 3 Hours) (Exclusion: Any version of COMM 3411 previously offered with a different title)

### COMM 3421 (3.00 CR)
### PRODUCTION AND OPERATIONS MANAGEMENT

**Prereq:** COMM 2131; MATH 2311; or permission of the Department

An introduction to issues and problems in the area of operations management. Topics include: productivity, product design and process selection (manufacturing and services), quality control, capacity planning, facility layout, work measurement, just-in-time inventory systems, synchronized manufacturing, and automation. (Format: Lecture/Projects 3 Hours)

### COMM 3431 (3.00 CR)
### MANAGEMENT INFORMATION SYSTEMS

**Prereq:** COMM 2131; 3 credits from COMP; or permission of the Department

This course covers the information systems approach to the decision-making process. Such methods as Critical Path Planning, Electronic Data Processing and others will be studied in reference to a total information system. The student will be involved in identifying, evaluating, and designing information flows. (Format: Lecture/Projects 3 Hours) (Exclusion: COMM 4411)

### COMM 3501 (3.00 CR)
### INTRODUCTION TO FINANCE

**Prereq:** COMM 2101; 3 credits from MATH 2321, ECON 2701, PSYC 2011; or permission of the Department

Important topics in this course include value, capital budgeting, the relationship of risk and expected return, market efficiency, capital structure and dividend policy. Other topics such as option theory, hedging, the theory of interest, and international finance may be introduced. The institutional setting of financial management in North America, and specifically in Canada, will be discussed. [Note 1: Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.] (Format: Lecture 3 Hours)

### COMM 3611 (3.00 CR)
### COMMERCIAL LAW

**Prereq:** Third-year standing; or permission of the Department

An introductory course in commercial law, providing background for general business. Topics dealt with are: the essentials of a contract, general contract law, sale of goods, employment and agency, business associations, credit transactions. (Format: Lecture 3 Hours) (Exclusion: COMM 4611)

### COMM 3991 (3.00 CR)
### SPECIAL TOPIC IN COMMERCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMM 3991 more than once, provided the subject matter differs.] (Format: Variable)

### COMM 4101 (3.00 CR)
### ADVANCED ACCOUNTING I

**Prereq:** COMM 3121; or permission of the Department

This course concentrates on advanced accounting theory and relates it to the business reality this theory reflects. Topics will include partnerships, government and not-for-profit accounting, corporate liquidation and bankruptcies, price level and current value accounting, trusts and estates, and standard setting. (Format: Lecture 3 Hours) (Exclusion: COMM 4121)

### COMM 4131 (3.00 CR)
### ADVANCED ACCOUNTING II

**Prereq:** COMM 3121; or permission of the Department

An introduction to business combinations, consolidated financial statements, joint ventures, and accounting for transactions and operations conducted in foreign currencies. (Format: Lecture/Online Project 3 Hours)

### COMM 4141 (3.00 CR)
### ACCOUNTING THEORY

**Prereq:** COMM 3111; COMM 3501; or permission of the Department

This course examines the historical development of accounting theory and practice with particular emphasis on the theory of income and asset valuation. Topics include the theoretical basis for past and present accounting principles and current issues and developments in accounting practice. [Note 1: Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.] (Format: Lecture 3 Hours) (Exclusion: COMM 3141)

### COMM 4201 (3.00 CR)
### MARKETING STRATEGY

**Prereq:** Fourth-year standing; 6 credits from the 32/4200 series; or permission of the Department

The course provides an in-depth treatment of how marketing strategy is formulated and implemented. This capstone course in the marketing major integrates knowledge obtained from other marketing courses, and selected courses such as finance, policy, and management. The focus is on strategic decisions which have a long-term impact on the organization and which are difficult and costly to reverse. The strategic decision making process is supported by an external analysis (an analysis of the organization's environment) and an internal (firm) analysis. [Note 1: This course is open only to students in the Commerce Program.] (Format: Discussion/Computer Simulation/Projects 3 Hours)

### COMM 4241 (3.00 CR)
### CURRENT CHALLENGES IN MARKETING

**Prereq:** Fourth-year standing; 6 credits from the 32/4200 series; or permission of the Department

This course addresses emerging issues in marketing decision-making. Topics may include recent research related to buyer behaviour, multidimensional scaling for positioning strategies, marketing mistakes and controversies, advertising research issues, pricing policy issues, distribution problems, product development issues, and social marketing approaches. [Note 1: This course is open only to students in the Commerce Program.] (Format: Lecture/Seminar 3 Hours)

### COMM 4251 (3.00 CR)
### SPORTS MARKETING

**Prereq:** COMM 3211: or permission of the Department

This course examines the sports marketing industry in relation to amateur sports, professional leagues, media, endorsements by athletes, corporate sponsorship, and the revenue streams associated with sport. It considers how effective marketing strategies can be created for sporting properties, and also how sport is used as a vehicle to market non-sport products. There is an emphasis on understanding and applying the conceptual and theoretical bases of sport marketing to actual sports organizations and their business strategies. (Format: Lecture 3 Hours)

### COMM 4301 (3.00 CR)
### ARTS AND CULTURE MANAGEMENT

**Prereq:** Third-year standing; or permission of the Department

This course explores the unique factors that affect the arts and culture sector, such as public pressure for accountability, fundraising needs and the desire of nations to develop the sector. An interdisciplinary, applied approach is taken to resolving management issues in a broad range of arts and culture organizations including art galleries, museums and performing arts series. [Note 1: This course is open only to students in the Commerce Program.] (Format: Lecture 3 Hours)

### COMM 4311 (3.00 CR)
### STRATEGIC MANAGEMENT

**Prereq:** Fourth year standing; COMM 2201, 2301, and 3501; or permission of the Department

This course integrates the concepts and techniques developed in prior Commerce courses through the analysis and discussion of case studies, current affairs and academic literature. It introduces the discipline and practice of strategic management and applies the concepts in a diverse range of organizational and industry settings. It encourages the development of an ability to view the organization as a whole through exploring the interdependencies between organizational functions and the environment. [Note 1: This course is open only to students in their last year of studies for a Bachelor of Commerce degree. It is not available to students enrolled in the Minor or Major in Commerce.] (Format: Lecture/Seminar 3 Hours) (Exclusion: Any version of COMM 4311 previously offered with a different title)

### COMM 4321 (3.00 CR)
### STRATEGIC ISSUES

**Prereq:** COMM 4311; or permission of the Department

This course builds upon the content covered in Comm 4311 to explore in depth pertinent issues facing organizations in the deployment of strategic management. This course examines some of these issues and explores how these issues affect an organization's ability to compete and survive. Issues that may be covered include strategy and structure,culture, strategic human resource management, sustainability, leadership and management in complex systems, creating shared value, and leveraging power and potential in organizations. (Format: Lecture/Seminar 3 Hours) (Exclusion: Any version of COMM 4321 previously offered with a different title)

### COMM 4331 (3.00 CR)
### MANAGEMENT OF ORGANIZATIONAL CHANGE

**Prereq:** COMM 3341; or permission of the Department

A study of organizational change from two perspectives: planned change and evolutionary change. In discussing planned change the focus is on the planning and implementation process for introducing innovation, restructuring, continual learning, and other types of organizational change. Topics include overcoming resistance to change and embedding the desired change. In discussing evolutionary change the focus is on the patterns of change in the cultures, structures, systems and processes in different types of organizations over extended periods of time in response to management initiatives, competitive pressures and changes in other organizational variables. (Format: Case Discussion/Lecture 3 Hours)

### COMM 4341 (3.00 CR)
### BUSINESS ETHICS

**Prereq:** ECON 1001; ECON 1011; 3 credits from COMM 3501, COMM 3411; or permission of the Department

This course deals with principles and practices of business ethics, with particular reference to Canada and North America. Issues investigated may include: the question of moral and legal responsibilities of corporations, ethics in business (including the various elements of ethics programs such as codes of conduct, telephone hotlines, training, the use of ethics officers and of ethics consultants), different control styles (integrity vs compliance programs), the problems associated with the prisoner's dilemma, the existence of implicit moral theory in economics and finance, the theory of the firm and agency theory, the problem of reputation, virtue ethics, ethical investment theory and practice, and the modelling of ethical problems, mainly using game theory. (Format: Lecture 3 Hour)

### COMM 4501 (3.00 CR)
### INVESTMENTS AND PORTFOLIO MANAGEMENT

**Prereq:** COMM 3501; or permission of the Department

Topics include theories of security valuation, portfolio selection, stock markets and economic efficiency, and capital market equilibrium. The behaviour of prices of stocks, bonds, and money market instruments will be investigated. Derivative securities will be introduced. Problems of evaluating the investment performance of individuals and investment management institutions will be discussed. [Note 1: Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.] (Format: Lecture/Field Trip 3 Hours)

### COMM 4521 (3.00 CR)
### CORPORATE FINANCE

**Prereq:** COMM 3501; or permission of the Department

Financial concepts and techniques applied to problems such as working capital management, financial planning, capital budgeting, capital structure, cost of capital, and mergers and acquisitions. [Note 1: Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.] (Format: Lecture 3 Hours)

### COMM 4531 (3.00 CR)
### VENTURE CAPITAL AND FINANCE OF INNOVATION

**Prereq:** COMM 3501; or permission of the Department

This course will provide students with an understanding of the venture capital process in the financing of innovation. The course will address the demand and supply of venture capital issues from the perspective of entrepreneurs and investors. Lectures, discussions, case studies and labs may be used to assist students in developing an understanding of the venture capital industry and explore various partnership and organizational arrangements. An important element of the course will be the application of valuation methodologies to these innovative ventures. Issues related to corporate governance will also be discussed in the course. (Format: Lecture 3 Hours)

### COMM 4950 (6.00 CR)
### INDEPENDENT STUDY IN COMMERCE

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for COMM 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### COMM 4951 (3.00 CR)
### INDEPENDENT STUDY IN COMMERCE

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for COMM 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### COMM 4990 (6.00 CR)
### HONOURS THESIS

**Prereq:** Fourth-year standing

This course requires a major paper on a business topic and is carried out in close consultation with a thesis director. [Note 1: Permission of the Department is required.] (Format: Independent Study/Thesis)

### COMM 4991 (3.00 CR)
### SPECIAL TOPIC IN COMMERCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMM 4991 more than once, provided the subject matter differs.]

# COMPUTER SCIENCE

The study of computing ranges from hands-on applications to pure theory, and includes the analysis of algorithms, the study of computer architectures, compilers and operating systems, networks, and software engineering. Our goal is to introduce students to all facets of the discipline, and to give them an appreciation of the historical, ethical, and social context of computing, and the responsibility of the computer professional and casual computer user in a modern society.

The Department offers a broad variety of courses and programs in Computer Science. Introductory courses may teach programming and theories of computing or offer a general overview of the use and application of popular microcomputer software; more advanced courses deal with topics ranging from artificial intelligence and the role of computers in society to the design and implementation of advanced hardware or software systems. All courses in the computing curriculum offer a blend of theory and practical application, with many of the offerings having a significant project component in which students are given the opportunity to apply the classroom material to real-world problems. Courses are designed to address the needs of a wide variety of users, from the casual to the professional. Some students may enrol in a course to familiarize themselves with the microcomputer and application software, while others may choose to pursue a minor or a major in Computer Science. Students may choose to select Computer Science in combination with areas such as English, Economics, Philosophy, or Physics. Mount Allison has been quite successful in placing its students in graduate programs in Computer Science, while many others have found employment after graduation in one of the many computer-related fields.

## Disciplinary B.A. and B.Sc. Programs

### B.A. or B.Sc. MINOR in Computer Science is 24 credits earned as follows:

12 from COMP 1631, 1731, 2611, 2631
6 from COMP 2211, 2931, MATH 1111
6 from Computer Science at the 3/4000 level

### B.A. MAJOR in Computer Science is 60 credits earned as follows:

18 from COMP 1631, 1731, 2211, 2611, 2631, 2931
12 from COMP 3611, 3721, 3911, 4721
3 from COMP 3361, 3971
9 from Computer Science at the 3/4000 level
6 from MATH 1111, 2221
3 from MATH 1121, 1131, 2311
9 from complementary courses in Arts and Letters, Humanities and Social Sciences chosen in consultation with the Program Advisor

### B.Sc. MAJOR in Computer Science is 63 credits earned as follows:

18 from COMP 1631, 1731, 2211, 2611, 2631, 2931
12 from COMP 3611, 3721, 3911, 4721
3 from COMP 3361, 3971

9 from Computer Science at the 3/4000 level
6 from MATH 1111, 2221
6 from MATH 1121, 2311
6 from CHEM 1001, PHYS 1051, 1551
3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011

### B.A. HONOURS in Computer Science is 75 credits earned as follows:

60 Credits as in the B.A. Major, plus
3 from Computer Science at the 3/4000 level
6 from Computer Science or Mathematics at the 3/4000 level
6 from COMP 4990

### B.Sc. HONOURS in Computer Science is 78 credits earned as follows:

63 Credits as in the B.Sc. Major, plus
3 from Computer Science at the 3/4000 level
6 from Computer Science or Mathematics at the 3/4000 level
6 from COMP 4990

### B.A. or B.Sc. HONOURS in Computer Science and Mathematics is 75 or 87 credits earned as follows:

18 from COMP 1631, 1731, 2211, 2611, 2631, 2931
15 from MATH 1111, 1121, 2111, 2121, 2221
9 from MATH 3111, 3211, 3311
3 from MATH 3011, 3221, 3231, 3251, 4221
3 from Mathematics at the 3/4000 levels
3 from COMP 3361, 3971
15 from COMP 3411, 3611, 3721, 3911, 4721
9 from Computer Science or Mathematics at the 3/4000 level
9 from CHEM 1001, 1021; PHYS 1051, 1551 (only for B.Sc.)
3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011 (only for B. Sc.)

## Interdisciplinary B.A. and B.Sc. Programs

### B.A. or B.Sc. MINOR in Geographic Information Systems is 24 credits earned as follows:

6 from COMP 1631, 1731
3 from GENS 1401, GENV 1201
3 from GENS 2431, MATH 2311
6 from GENS 2441, GENV 4711
3 from COMP 2611, 3851
3 from GENS 3401, GENV 3701

## COMPUTER SCIENCE COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### COMP 1631 (3.00 CR)
#### INTRODUCTION TO COMPUTER SCIENCE

An introduction to computer science providing a broad survey of the discipline and an introduction to programming. Survey topics will be chosen from: origins of computers, data representation and storage, Boolean algebra, digital logic gates, computer architecture, assemblers and compilers, operating systems, networks and the Internet, theories of computation, and artificial intelligence. [Note 1: University preparatory level course in Mathematics is required.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: COMP 1611; COMP 1711; any COMP course at the 2000 level or higher)

#### COMP 1731 (3.00 CR)
#### PROGRAMMING TECHNIQUES AND ALGORITHMS

**Prereq:** COMP 1631; or permission of the Department

In the context of solving several larger problems, the techniques of topdown problem solving will be emphasized in order to further develop good programming style. Topics include: documentation, debugging and testing, string processing, internal searching and sorting, elementary data structures, recursion and algorithmic analysis. (Format: Lecture 3 Hours, Laboratory 3 Hours)

#### COMP 1991 (3.00 CR)
#### SPECIAL TOPIC IN COMPUTER SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMP 1991 more than once, provided the subject matter differs.]

#### COMP 2211 (3.00 CR)
#### DISCRETE STRUCTURES

**Prereq:** 3 credits from MATH 1111, 1151; or permission of the Department

An introduction to the terminology and concepts of discrete mathematics, covering such topics as: logical arguments, proofs and algorithm verification, sets, relations, functions and cardinality of sets, induction and recursion, enumeration, algorithms and complexity. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with MATH 2211 and may therefore count as three credits in either discipline.]

#### COMP 2611 (3.00 CR)
#### DATA STRUCTURES AND ALGORITHMS I

**Prereq:** COMP 1731; or permission of the Department

Effective methods of data organization, focussing on data structures and their algorithms via abstract data types with use of recursive procedures. Design of flexible file structures and related methods e.g. indexes, system file structures, hashed access. Object oriented programming techniques are used in depth. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### COMP 2631 (3.00 CR)
### DATA STRUCTURES AND ALGORITHMS II

**Prereq:** COMP 2611; or permission of the Department

Advanced structures for data organization, with an emphasis on associated algorithms and their complexity. Topics include: binary and text file structures, compression, distributed computing, event-driven programming, advanced user interface design. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### COMP 2931 (3.00 CR)
### INTRODUCTION TO SYSTEMS PROGRAMMING

**Prereq:** COMP 1731; or permission of the Department

This course is an introduction to programming at the systems level. Topics include: basic machine organization, assembly language, the UNIX environment, shell scripting, and C/C++ programming. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### COMP 2991 (3.00 CR)
### SPECIAL TOPIC IN COMPUTER SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMP 2991 more than once, provided the subject matter differs.]

### COMP 3361 (3.00 CR)
### DIGITAL SIGNAL PROCESSING AND ELECTRONICS

**Prereq:** COMP 1631; PHYS 1551; or permission of the Department

This course introduces students to both digital electronic circuits and digital signal processing, and would be valuable both for those planning to go on in technical careers in computer science or in physics, and for scientists who wish to develop tools for the collection and analysis of data. Topics to be covered include digital logic gates, Boolean algebra, counting circuits, digital signal conditioning, sampling considerations such as the Nyquist criterion, analog to digital and digital to analog conversion, Fourier Transform theory and application as FFT, correlation and convolution, digital filtering using finite impulse response and infinite impulse response circuits including the ztransform and filter design, and digital image processing including two dimensional FFT techniques, microprocessors, microcontrollers and digital signal processing integrated circuits. (Format: Lecture 3 Hours, Laboratory 3 Hours) [Note 1: This course is cross-listed with PHYS 3361 and may therefore count as three credits in either discipline.]

### COMP 3411 (3.00 CR)
### NUMERICAL ANALYSIS

**Prereq:** MATH 1121; 3 credits from COMP; or permission of the Department

This course introduces numerical methods for solving a variety of problems in mathematics, the natural sciences, and engineering and the implementation of numerical methods on a computer. Topics include numerical stability, polynomial approximation and interpolation, integration and solution of differential equations, solution of linear and nonlinear systems of equations and matrix factorization. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with MATH 3411 and may therefore count as three credits in either discipline.]

### COMP 3531 (3.00 CR)
### SIMULATION AND MODELING

**Prereq:** MATH 1111; 3 credits from MATH 2311, MATH 3311, PSYC 2001, PSYC 2011; 3 credits from COMP; or permission of the Department

An introduction to the simulation technique for studying mathematical models. Specific topics to be considered include: systems theory and system models, continuous system simulation, discrete system simulation, Monte Carlo methods, random number generators, and simulation languages. Emphasis will be placed upon computer implementation of the methods studied. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with MATH 3531 and may therefore count as three credits in either discipline.]

### COMP 3611 (3.00 CR)
### ALGORITHM ANALYSIS

**Prereq:** COMP 2631; COMP/MATH 2211; or permission of the Department

This course applies analysis and design techniques to non-numeric algorithms that act on data structures. The design of efficient algorithms leads to in-depth investigations of computational complexity such as NP-hard problems. (Format: Lecture 3 Hours)

### COMP 3651 (3.00 CR)
### ARTIFICIAL INTELLIGENCE

**Prereq:** COMP 2631; COMP/MATH 2211; or permission of the Department

This course introduces general problem solving methods associated with automated reasoning and simulated intelligence. Topics include: state space heuristic search theory, mechanical theorem proving, game playing, natural language processing, propositional logic, learning and cognitive models and expert systems. (Format: Lecture 3 Hours)

### COMP 3711 (3.00 CR)
### PRINCIPLES OF PROGRAMMING LANGUAGES

**Prereq:** COMP 2631; COMP 2931; or permission of the Department

An introduction to the principles of design and implementation of procedural and functional programming languages; modular, object and logic programming. Topics include language syntax and processors and semantic models of data and control structures. (Format: Lecture 3 Hours)

### COMP 3721 (3.00 CR)
### OBJECT-ORIENTED DESIGN AND METHODOLOGY

**Prereq:** COMP 2631; or permission of the Department

Continues the introduction to object-oriented programming begun in earlier CS courses, emphasizing further development of algorithms, data structures, software engineering, and the social context of computing. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### COMP 3811 (3.00 CR)
### DATABASE SYSTEMS

**Prereq:** COMP 2631; COMP/MATH 2211; or permission of the Department

This course introduces the major types of database systems and provides experience with at least one database model. It emphasizes the theoretical and practical aspects of the relational model, including database query systems and database design. (Format: Lecture 3 Hours)

### COMP 3831 (3.00 CR)
### COMPUTER GRAPHICS

**Prereq:** COMP 2631; COMP 2931; MATH 2221; or permission of the Department

This course introduces the principles and tools of interactive computer graphics: implementation of device drivers, 3D transformations, clipping, perspective views, input routines, user interface design, data structures, hidden lines, surface removal, colour shading and ray tracing. (Format: Lecture 3 Hours)

### COMP 3851 (3.00 CR)
### COMPUTERS AND SOCIETY

**Prereq:** Third-year standing; 3 credits from COMP; 3 credits from Science; or permission of the Department

This course examines the historical development and growth of the computer and related digital technology. The impact of the computer and the digitalization of society are discussed, including ethical issues related to the modern information age. Privacy and data protection, computer crime, data theft, and legal issues in software creation and use are examined. The responsibilities of the computer professional and computer user are examined from the technical, personal, and societal perspectives. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### COMP 3911 (3.00 CR)
### OPERATING SYSTEMS

**Prereq:** COMP 2631; COMP 2931; or permission of the Department

This course examines the major concepts underlying the design of operating systems such as process management, scheduling, memory management, device management, security, and network structures. (Format: Lecture 3 Hours)

### COMP 3971 (3.00 CR)
### COMPUTER ORGANIZATION AND ARCHITECTURE

**Prereq:** COMP 2631, 2931; or permission of the Department

This course introduces modern computer design and its relation to system architecture and program function. Topics include system bus design, memory organization, I/O device access, instruction set design, instruction pipelining, leading to an investigation of how these tools are used to support multi-processor systems. (Format: Lecture 3 Hours)

### COMP 3991 (3.00 CR)
### SPECIAL TOPIC IN COMPUTER SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMP 3991 more than once, provided the subject matter differs.]

### COMP 4631 (3.00 CR)
### THEORY OF COMPUTATION

**Prereq:** COMP 1731; COMP/MATH 2211; or permission of the Department

This course is an introduction to theoretical aspects of Computer Science such as formal language and automata theory and complexity theory. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with MATH 4631 and may therefore count as three credits in either discipline.]

### COMP 4651 (3.00 CR)
### CRYPTOGRAPHY

**Prereq:** COMP 1731; COMP/MATH 2211; MATH 2221; or permission of the Department

This course is an introduction to cryptographic algorithms and to the cryptanalysis of these algorithms, with an emphasis on the fundamental principles of information security. Topics include: classical cryptosystems, modern block and stream ciphers, public-key ciphers, digital signatures, hash functions, key distribution and agreement. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed with MATH 4651 and may therefore count as three credits in either discipline.]

### COMP 4721 (3.00 CR)
### SOFTWARE DESIGN

**Prereq:** Third-year standing; COMP 3721; or permission of the Department

This course focuses on software design culminating in a major project. It studies life cycle models and their phases: planning, requirements, specifications, design, implementation, testing, and maintenance. (Format: Lecture 3 Hours, Laboratory 2 Hours)

### COMP 4911 (3.00 CR)
### COMPUTER NETWORKS

**Prereq:** COMP 2631; COMP 2931; or permission of the Department

An introduction to computer network applications and design. Topics will include: layered models, data transmission protocols, network topology, and security. (Format: Lecture 3 Hours)

### COMP 4950 (6.00 CR)
### INDEPENDENT STUDY IN COMPUTER SCIENCE

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for COMP 4950/51 more than once, provided the subject matter differs.]

### COMP 4951 (3.00 CR)
### INDEPENDENT STUDY IN COMPUTER SCIENCE

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for COMP 4950/51 more than once, provided the subject matter differs.]

### COMP 4990 (6.00 CR)
### HONOURS THESIS

Independent research and study under direction of a member of the Department; for students in Computer Science Honours program. (Format: Independent Study/Thesis) [Note 1: Consent of supervising staff member and permission of the Department required.]

### COMP 4991 (3.00 CR)
### SPECIAL TOPIC IN COMPUTER SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for COMP 4991 more than once, provided the subject matter differs.]

# DRAMA STUDIES

Students at Mount Allison with an interest in drama have several options open to them. In all cases, the programs are designed to provide an education in drama rather than professional training for the theatre.

## Interdisciplinary B.A. Programs

### MINOR in Drama is 24 credits earned as follows:

| | |
|---|---|
| 3 | from DRAM/ENGL 1701 |
| 6 | from DRAM 2151, 2161, 3161 |
| 15 | from CLAS 3201, 3211; DRAM 2151, 2161 or 3161 (if not counted above), 2669, 3669, 4669, 3001, 3151, 3171, 3201, 4011, 4951, 1991-4991; DRAM/ENGL 3841; ENGL 2211, 3211, 3311, 3431, 3551, 3561, 3611, 3621; MUSC 3201, 3271; SPAN 3321 |

### MAJOR in Drama is 60 credits earned as follows:

**Drama Core is 33 credits as follows:**

| | |
|---|---|
| 3 | from DRAM/ENGL 1701 |
| 15 | from DRAM 2151, 2161, 3001, 3151, 3161 |
| 3 | from DRAM 4011 |
| 9 | from DRAM 3171, 1991-4991, 3201; COMM 3271 |
| 3 | from DRAM 2669, 3669, 4669 |

**Dramatic Literature**

| | |
|---|---|
| 15 to 21 | from CLAS 3201, 3211; DRAM 4950*, 4951*; DRAM/ ENGL 3841; ENGL 2211, 3211, 3311, 3431, 3551, 3561, 3611 or 3621; SPAN 3321 and from the following when the topic is dramatic literature: English 4000 series; GERM 1991-4991; SPAN 3060, 4950/51 |
| 6 to 12 | to be chosen in consultation with the Drama Program Advisor. The following are particularly recommended: ANTH 2231, 4421; COMM 3271 (if not counted in the core courses), 4301; DRAM 3201 (if not counted in the core courses), 4011*, 1991-4991; English credits at the 1000 level, ENGL 3621, 3850, 3871, 3881, 3921; FINA 1901, 1911, 1921, 1931, FINH 2101, 2111; FREN 2601, 2801, 3801; GERM 2601, 2701; MUSC 1991-4991, 1001, 1011, 1101, 1111, 2011, 2679, 3201, 3271, 3301, 3679, 4679; SOCI 3451; and from the following courses when their subject is appropriate: ANTH 4901, 1991-4991; CANA 1991-4991, 4601, 4951; ENGL 1991-4991; FREN 4951; GERM 1991-4991, 4950/4951; SPAN 1991-4991, 4950/51 |

**Note:** Students may take DRAM 4011 and 4950-51 more than once provided the topic differs.

## DRAMA COURSES

With the exceptions below, all descriptions of Drama courses available are given in the appropriate course description section. The only interdisciplinary drama courses offered are described below.

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of

the appropriate Department Head or Program Co-ordinator must be obtained.

### DRAM 1701 (3.00 CR)
### INTRODUCTION TO DRAMA STUDIES

This course introduces conventions, forms, and devices of drama as they emerge under, and respond to, specific theatrical and cultural conditions. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as ENGL 1701 and may be taken as three credits in either discipline.]

### DRAM 1991 (3.00 CR)
### SPECIAL TOPIC IN DRAMA

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for DRAM 1991 more than once, provided the subject matter differs.]

### DRAM 2151 (3.00 CR)
### INTRODUCTION TO ACTING

**Prereq:** DRAM/ENGL 1701; or permission of the Program Director

This course introduces students to the theory and practice of acting, and will help them to develop competence in script analysis and performance with a view to creating a dramatic role on stage. The study of the themes, structures, rhythms and subtext, and of the visual-kinetic dimension embedded in several dramatic texts will be complemented by dramatic improvisations and character/scene studies in order to prepare students for a final public performance. (Format: Lecture/Workshop 3 Hours)

### DRAM 2161 (3.00 CR)
### THEATRE PRODUCTION

**Prereq:** DRAM/ENGL 1701; or permission of the Program Director

This course allows students to develop competence in basic stagecraft, chiefly set construction, light and sound; in stage management, production management, technical direction, lighting and sound design; and in basic drafting and technical drawing.(Format: Lecture/Workshop 3 Hours) (Exclusion: Any version of DRAM 2161 previously offered with a different title)

### DRAM 2991 (3.00 CR)
### SPECIAL TOPIC IN DRAMA

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for DRAM 2991 more than once, provided the subject matter differs.]

### DRAM 3001 (3.00 CR)
### DRAMATIC THEORY

**Prereq:** DRAM/ENGL 1701; or permission of the Program Director

This course studies ways in which theatre practitioners have understood their art and the ways in which it reflects their world. Among topics to be explored are theories of representation, performance theory, tragic theory, comic theory, Naturalism, Expressionism, and Political Theatre. (Format: Lecture 3 Hours) (Exclusion: DRAM 3000)

### DRAM 3151 (3.00 CR)
### PRINCIPLES OF DIRECTING

**Prereq:** DRAM 2151; or permission of the Program Director

This course introduces students to the theory and practice of directing, diverse models of the director's role in the theatrical process, script analysis for directorial purposes, study of staging techniques, and techniques for working with actors. The class will study several texts and present selected scenes with a view to developing directorial competence. (Format: Lecture/Workshop 3 Hours) (Exclusion: DRAM 3051)

### DRAM 3161 (3.00 CR)
### THEATRE DESIGN

**Prereq:** DRAM/ENGL 1701; or permission of the Program Director

This course explores theatre architecture, set design, costume design, scenic painting, properties, mask-making, and historical research in support of theatrical design. (Format: Lecture/Workshop 3 Hours) (Exclusion: DRAM 3061; any version of DRAM 3161 previously offered with a different title)

### DRAM 3171 (3.00 CR)
### ACTING STYLES

**Prereq:** DRAM 2151; or permission of the Program Director

This course focuses on approaches to character creation and acting styles across diverse theatrical forms. Advanced acting techniques and principles are explored as a way to approach non-realist dramatic literature and types of performance with a special emphasis on developing the students' knowledge and understanding of style in performance. The course addresses the particular demands made on the performer by styles such as Greek tragedy, Choral performance, Shakespearean (tragedy and comedy), Comedy of Character, Comedy of Manners, Commedia dell'arte, Farce, Melodrama, Theatre of the Absurd, and Physical Theatre. (Format: Integrated Lecture and Workshop 3 Hours)

### DRAM 3201 (3.00 CR)
### TRENDS IN STAGE PERFORMANCE

**Prereq:** DRAM/ENGL 1701; DRAM 2151 and 3 credits from DRAM at the 3000 level, or third-year standing in the Interdisciplinary Drama Program; or permission of the Program Director

This course introduces students to emerging trends in contemporary stage performance. It complements the investigation of artistic practices with study of historical and cultural influences as well as seminal theories of performance that inform the work of selected artists. The course combines critical study with experiential exploration. Contemporary performance genres include site-specific and site-responsive performance, one-to-one theatre, audio theatre, postdramatic theatre and devising, dancetheatre, interdisciplinarity in performance and intermediality, virtual theatre, and verbatim theatre. (Format: Lecture 3 hours) (Exclusion: DRAM 3991 Trends in Stage Performance)

### DRAM 3841 (3.00 CR)
### MODERN CANADIAN DRAMA

**Prereq:** DRAM 1701; 3 credits from ENGL at the 2000 level or third-year standing in the Interdisciplinary Drama Program; or permission of the Program Director

This course explores developments in Canadian theatre from the mid-1960s by looking at representative playwrights, plays, theatres, and movements. (Format: Lecture 3 hours) (Exclusion: ENGL 3991 Modern Canadian Drama)

### DRAM 3991 (3.00 CR)
### SPECIAL TOPIC IN DRAMA

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for DRAM 3991 more than once, provided the subject matter differs.]

### DRAM 4011 (3.00 CR)
### ADVANCED THEATRICAL INTERPRETATION

This course involves projects in areas such as acting, directing, writing and design as assigned within the Motyer-Fancy Theatre season by the Director of Drama. Practical results are supported by written and/or visual materials as appropriate. (Format: Independent Study)[Note 1: Students may register for DRAM 4011 more than once, provided the subject matter differs.]

### DRAM 4950 (6.00 CR)
### INDEPENDENT STUDY IN DRAMA

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for DRAM 4950/51 more than once, provided the subject matter differs.]

### DRAM 4951 (3.00 CR)
### INDEPENDENT STUDY IN DRAMA

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for DRAM 4950/51 more than once, provided the subject matter differs.]

### DRAM 4991 (3.00 CR)
### SPECIAL TOPIC IN DRAMA

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for DRAM 4991 more than once, provided the subject matter differs.]

## ONE CREDIT Production Practicum:

**Prereq:** DRAM 1701 and DRAM 2161 or DRAM 3161 (also can be a co-requisite with either DRAM 2161 or DRAM 3161).

This course allows students to focus on developing skills and practical experience in areas of theatre production such as costume or set design and construction, lighting, stage-management, or front-of-house. (Format: Experiential) [Note 1: Students registered for DRAM 3011 or 4011 projects related to a Motyer-Fancy Theatre production, as well as students engaged as paid theatre assistants, cannot also receive Production Practicum credit for that same production work.]

**DRAM 2669**
**DRAM 3669**
**DRAM 4669**

# ECONOMICS

Every society must in some way determine what goods and services its members will produce, and to what extent each person can claim a portion of this flow of output. Our Canadian society relies primarily, although not completely, upon a system of variable money prices, a market economy, to resolve the questions of production and distribution.

Much of the study of economics consists of examining the operation of market economies to discover regularities of behaviour, ultimately in the expectation that through better understanding society will be able to remedy undesirable results and achieve better ones. Such a study logically includes looking at the historical evolution of modern economies (economic history), the evolution of thinking about economic systems (economic thought), the operation of markets (microeconomics), the aggregate flows of output (macroeconomics), the operation of the money system (money and banking), economic relationships with other societies (international economics) and so on. Instruction on such topics emphasizes understanding.

To achieve understanding means moving into the seemingly abstract realm of theory, analysis and technical terms. Little attention is paid to description or factual memorization. Students planning to concentrate on economics will find mathematics a valuable complementary study. Those who dislike mathematics or who do poorly in it usually encounter difficulties in economics.

## Disciplinary B.A. Programs

### MINOR in Economics is 24 credits earned as follows:

6 from ECON 1001 and 1011
18 from Economics, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor

### MAJOR in Economics is 60 credits earned as follows:

21 from ECON 1001, 1011, 2001, 2011, 2101, 2111, 2701
6 from MATH 1111, 2311
6 from COMM 2101, COMP 1631, MATH 1121, 2221
18 from Economics at the 3/4000 level
9 from complementary courses, chosen in consultation with the Program Advisor

**Note:**

1. COMM 3411, 3501, 4141, 4501, and 4521 may be designated as Economics electives for students taking a Major, Minor or Honours in Economics.
2. ECON 3201, 3211, 3301, 3601, 3711, 3921, 4501, 4511, 4611, 4621, 4700, 4801, 4811, 4821, 4990, and COMP 3851 are Commerce electives for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

**Note:** See also the Interdisciplinary Minor in International Economics and Business

### HONOURS PROGRAM

Honours in Economics may be completed in both Arts and Commerce Degree Programs. For Honours under the B.A. please see the section below; for Honours under the B.Comm. please see section 11.5.9.

Students who plan to pursue graduate studies in Economics are advised to include Economics 4700, 4801, 4811, 4821 and courses in Calculus, Linear Algebra (Mathematics 2221) and Statistics (Mathematics 3311, 3321) from the Mathematics Department. Other courses in Mathematics are also valuable. Students should seek advice from a member of the Department of Economics when deciding on a program of study.

### HONOURS in Economics is 72 credits earned as follows:

51 credits as in the first four lines of the Major, plus:
12 from ECON 4001, 4011, 4700, 4801, 4811, 4821, 4990
9 from Economics at the 3/4000 level or Mathematics and Computer Science (except MATH 1011, 1251 and 2321; and COMP 1631) chosen in consultation with the Economics Program Advisor

## Interdisciplinary B.A. Program

### B.A. HONOURS in Economics and Mathematics is 81 credits earned as follows:

21 from ECON 1001, 1011, 2001, 2011, 2101, 2111, 2701
21 from MATH 1111, 1121, 2111, 2121, 2211, 2221, 2311
3 from COMP 1631
6 from MATH 3111, 3211
12 from ECON 4700, 4801, 4811, 4821
6 from ECON at the 3/4000 levels which may include ECON 4990
12 from MATH 3011, 3121, 3131, 3151, 3161, 3221, 3251, 3311, 3321, 3411, 3531, 4111, 4221. Note that MATH 4951 may also be included if the Program Co-ordinators approve its content.

## ECONOMICS COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### ECON 1001 (3.00 CR)
#### PRINCIPLES OF MICROECONOMICS

A general introduction to the study of Economics and the nature of economic problems. Of primary concern is the behaviour of consumers and firms in different markets, and the results of their actions as manifested in production, costs, and prices. Market efficiency and market failure are also examined. [Note 1: Students should normally have completed a university preparatory level course in Mathematics.] (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: ECON 1000)

### ECON 1011 (3.00 CR)
### PRINCIPLES OF MACROECONOMICS

A general introduction to the study of Economics and the nature of economic problems. Of primary concern is the determinants of the level of national income, employment, and the accompanying stabilization problems and policies. Topics also include money and banking. international trade, exchange rates, and the problems of inflation. (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: ECON 1000)

### ECON 1991 (3.00 CR)
### SPECIAL TOPIC IN ECONOMICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ECON 1991 more than once, provided the subject matter differs.]

### ECON 2001 (3.00 CR)
### INTERMEDIATE MICROECONOMICS I

**Prereq:** ECON 1001; or permission of the Department

This course presents microeconomic theory and its applications relating to consumer decisions. Topics covered include: scope and method of microeconomics; demand and consumer behaviour; choices under uncertainty; intertemporal decisions making; asymmetric information; externalities and public goods; and exchange equilibrium and economic efficiency. (Format: Lecture 3 Hours)

### ECON 2011 (3.00 CR)
### INTERMEDIATE MICROECONOMICS II

**Prereq:** ECON 1001; or permission of the Department

This course presents microeconomic theory and its applications relating to producer decisions. Topics include: the theory of production and cost; profit maximization and competitive supply; pricing with market power; monopoly and monopsony; monopolistic competition and oligopoly; game theory and strategic interactions; markets for inputs and income distribution; markets and asymmetric information; analysis of markets and effects of government policies; and the theory of the firm and team production. (Format: Lecture 3 Hours)

### ECON 2101 (3.00 CR)
### INTERMEDIATE MACROECONOMICS I

**Prereq:** ECON 1011; or permission of the Department

Theories of national income, employment, inflation, balance of payments, and stabilization policy within the framework of macroeconomic models of a open economy. The focus of the course will be on short-run macroeconomic analysis and policy. (Format: Lecture 3 Hours)

### ECON 2111 (3.00 CR)
### INTERMEDIATE MACROECONOMICS II

**Prereq:** ECON 2101; or permission of the Department

A continuation of macroeconomic analysis in the context of the long-run. Topics include long-run consumption functions, investment and real business cycles, economic growth and productivity, and the monetary theories of the classical economists, Keynes, and Friedman. (Format: Lecture 3 Hours)

### ECON 2301 (3.00 CR)
### ECONOMIC ISSUES IN CANADIAN PUBLIC POLICY I

**Prereq:** 6 credits from Social Sciences; or permission of the Department

This course introduces analytical methods used by social scientists examining Canadian social and economic policy by studying issues that arise perennially. Topics may include: unemployment and government policy, Canada and the global economy, social security reform, regionalism, education policy, health policy, and inflation. (Format: Lecture 3 Hours) (Exclusion: Any version of ECON 2301 previously offered with a different title)

### ECON 2311 (3.00 CR)
### ECONOMIC ISSUES IN CANADIAN PUBLIC POLICY II

**Prereq:** 6 credits from Social Sciences; or permission of the Department

This course provides a critical study of current debates on economic and social policy in Canada. (Format: Lecture 3 Hours) (Exclusion: Any version of ECON 2311 previously offered with a different title)

### ECON 2701 (3.00 CR)
### INTRODUCTION TO ECONOMETRICS

**Prereq:** ECON 1001; ECON 1011; MATH 2311; or permission of the Department

This course introduces statistical tools for handling data generated in uncontrolled environments and the techniques involved in their use. Topics include estimation and inference of single- and multi-variable regression models, large sample techniques, dummy variables, heteroskedasticity, and an introduction to times series. (Format: Lecture 3 Hours) (Exclusion: Any version of ECON 2701 previously offered with a different title)

### ECON 2991 (3.00 CR)
### SPECIAL TOPIC IN ECONOMICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ECON 2991 more than once, provided the subject matter differs.]

### ECON 3101 (3.00 CR)
### LAW AND ECONOMICS

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

An introduction to the economic analysis of law, the role of economics in legal debates, and the role of law in economic exchange. The course examines economic aspects of social and legal issues and policies in regional, national and international contexts. Topics may include: property, contracts, torts, environmental law, and the economics of crime and punishment. (Format: Lecture 3 Hours)

### ECON 3111 (3.00 CR)
### HEALTH ECONOMICS

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

An introduction to economic issues in the health care system. The course examines applications of economic principles and empirical analysis to the study of health and health policies in Canadian and International contexts. Topics may include: the demand for health care, the supply of health services through health practitioners and hospitals, the economic effects of health insurance, pharmaceutical markets, economic evaluation techniques for health, health technology assessment and public policy formulation. (Format: Lecture 3 Hours)

### ECON 3201 (3.00 CR)
### MONEY, BANKING, AND THE CANADIAN FINANCIAL SYSTEM: MICROECONOMIC PERPECTIVES

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

This course covers microeconomic aspects of the Canadian financial system. One main focus of the course is on financial instruments, the markets in which they are traded, and the economic role that these markets play. The other main focus is on Canadian financial institutions, the activities in which they engage, and the economic roles they play. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 3211 (3.00 CR)
### MONEY, BANKING, AND THE CANADIAN FINANCIAL SYSTEM: MACROECONOMIC PERPECTIVES

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

This course covers macroeconomic aspects of the Canadian financial system. These include central banking, and the conduct and mechanics of monetary policy. The international financial system is also covered. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 3301 (3.00 CR)
### INTRODUCTION TO GAME THEORY

**Prereq:** 6 credits from ECON 1001, 1011; or 3 credits from MATH 1111, 1151; or permission of the Department

This course introduces the basic tools and methods of Game Theory. Game Theory is a mathematically oriented approach to understanding the strategic interaction of self-interested agents. Emphasis is on non-cooperative games. Topics include backwards induction, iterative deletion of dominated strategies, Nash equilibrium, repeated games, some equilibrium refinements, evolutionary game theory, and Bayesian Nash equilibria. (Format: Lecture 3 hours, Laboratory 1 Hour) [Note 1: This course is cross-listed as MATH 3301 and therefore may count as 3 credits in either discipline.]

### ECON 3401 (3.00 CR)
### SURVEY RESEARCH METHODS

**Prereq:** 6 credits from Social Sciences; 3 credits from MATH 2311, PSYC 2011, GENS 2431, BIOL 3701; or permission of the Department

The purpose of this course is to introduce students in social science disciplines to survey research methods. To achieve this goal, students will be taken through the complete survey development process. This will involve not only the development and administration of a survey questionnaire, sample selection, and statistical analysis but also collaboration with survey developers and parties interested in the survey administration. Presentation techniques will also be covered. (Format: Lecture 3 Hours) (Exclusion: ECON 4981 Data Analysis I, II, Data and Research)

### ECON 3501 (3.00 CR)
### ECONOMIC GROWTH AND TECHNOLOGICAL CHANGE

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

This course covers economic theories of economic growth and technological change and their application in the study of the historical evolution of the world economy. Historical sections of the course will selectively cover materials on Canada, the US, Europe, Asia, and the developing world. (Format: Lecture 3 Hours)

### ECON 3601 (3.00 CR)
### PRINCIPLES OF COST-BENEFIT ANALYSIS

**Prereq:** ECON 2001; or permission of the Department

This course examines the use of economic theory in the assessment of public sector regulations and projects. Topics include the measurement of social costs and social benefits, shadow pricing, and the choice of discount rate. The course will rely heavily on concrete examples such as transportation infrastructure, medical services, environmental protection and hydro development. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 3711 (3.00 CR)
### LABOUR MANAGEMENT RELATIONS

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

An introduction to the history and institutions of the North American industrial relations system. Topics include: labour management techniques used by firms; unions and union strategies; government regulation of pay and working conditions; and the structure of collective bargaining. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 3721 (3.00 CR)
### LABOUR ECONOMICS

**Prereq:** ECON 2001; or permission of the Department

This course introduces labour economics. Topics covered include the demand and supply of labour, the Canadian labour market and income distribution, unemployment, poverty, and discrimination in Canada. (Format: Lecture 3 Hours)

### ECON 3801 (3.00 CR)
### ENVIRONMENTAL ECONOMICS

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

The application of economic analysis in the study of environmental problems. Students will examine when and why markets often fail to allocate sufficient resources to environmental conservation, and will critically assess different policy instruments available to correct for the fundamental "market failure". Using the analytical methods developed in this course, the following type of policies will be examined: measures to control air and water pollution, the disposal of hazardous wastes, the protection of endangered species, and the control of cross border pollution, including the Canadian "Green Plan". (Format: Lecture 3 Hours)

### ECON 3821 (3.00 CR)
### NATURAL RESOURCE ECONOMICS

**Prereq:** ECON 2001; 3 credits from MATH 1111, 1151; or permission of the Department

This course examines the application of economic analysis to questions of management, use, and conservation of natural resources. It exposes students to economic theories used in the study of renewable and non-renewable resource industries. It pays particular attention to resource industries important to the Atlantic Canadian economy (the fishery, forestry, agriculture, mining, and energy). (Format: Lecture 3 Hours)

### ECON 3901 (3.00 CR)
### INTERNATIONAL TRADE

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

Issues examined will include the pure economic theory of international trade and important institutions (the FTA, NAFTA, the EC, GATT, etc.), plus problems and policies associated with trade in goods and services. Students will examine issues such as free trade and protectionism and the gains and losses resulting from globalization. (Format: Lecture 3 Hours)

### ECON 3921 (3.00 CR)
### INTERNATIONAL FINANCE

**Prereq:** ECON 1001; ECON 1011; or permission of the Department

This course examines the financial side of international trade. The focus is on exchange rates, the balance of international payments, alternative means of adjustment to shocks in the international economy, and international monetary arrangements. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 3991 (3.00 CR)
### SPECIAL TOPIC IN ECONOMICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ECON 3991 more than once, provided the subject matter differs.]

### ECON 4001 (3.00 CR)
### MODES OF CLASSICAL ECONOMIC THOUGHT

**Prereq:** ECON 1001; ECON 1011; 6 credits from ECON 2001, 2011, 2101, 2111, or 6 credits from ECON at the 3/4000 level, or 6 credits from PHIL 3000, 3221, 3231, 3250, 3301, 3311, 3311, 4111, 4211, or 6 credits from POLS 3001, 3011, 4000, 4011; or permission of the Department

This course focuses on the work of classical economists (especially Adam Smith, David Ricardo, and Thomas Malthus) and the economic theories of Karl Marx. (Format: Lecture 3 Hours)

### ECON 4011 (3.00 CR)
### MODES OF ECONOMIC THOUGHT

**Prereq:** ECON 1001; ECON 1011; 6 credits from ECON 2001, 2011, 2101, 2111, or 6 credits from ECON at the 3/4000 level, or 6 credits from PHIL 3000, 3221, 3231, 3250, 3301, 3311, 4111, 4211, or 6 credits from POLS 3001, 3011, 4000, 4011; or permission of the Department

This course examines the historical origins of neo-classical, Austrian and Keynesian economic thought. (Format: Lecture 3 Hours)

### ECON 4501 (3.00 CR)
### PUBLIC FINANCE: TAXATION AND FISCAL FEDERALISM

**Prereq:** ECON 2001; ECON 2011; or permission of the Department

This course examines positive and normative approaches to taxation and fiscal federalism with special emphasis on issues in Canadian Public Finance. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 4521 (3.00 CR)
### NORMATIVE ECONOMICS

**Prereq:** 12 credits from ECON 2001, 2011, 2101, 2111; or 3 credits from ECON at the 2/3/4000 level and 6 credits from ECON at the 3/4000 level; or permission of the Department

This course examines the criteria for making judgments on economic performance. It introduces and evaluates notions of efficiency, fairness, and distributive justice in economic outcomes. Topics include the measurement of economic inequality and poverty, value judgments in cost-benefit analysis, consistent collective decision making, and effective means of income redistribution. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 4531 (3.00 CR)
### ECONOMIC GROWTH AND DEVELOPMENT: JAPAN AND EAST ASIA

**Prereq:** 6 credits from ECON 1001, 2111; or ECON 3501; or permission of the Department

This course focuses on the economic performance of the economies of Japan, China, and other areas of eastern Asia, emphasizing historical and major current events. (Format: Lecture 3 Hours) (Exclusion: ECON 3531)

### ECON 4551 (3.00 CR)
### INTERNATIONAL DEVELOPMENT

**Prereq:** 6 credits from ECON 1001, 2111; or ECON 3501; or permission of the Department

This course focuses on differences in the patterns of economic development in the world economy. It examines the developing world, national and international policies designed to improve the global distribution of income, and the economic development policies of the World Bank, the International Monetary Fund, and the United Nations. (Format: Lecture 3 Hours) (Exclusion: ECON 3551)

### ECON 4611 (3.00 CR)
### INDUSTRIAL ORGANIZATION: THEORY

**Prereq:** ECON 2001; ECON 2011; 3 credits from MATH 1111, 1151; or permission of the Department

This course provides an overview of central theories of industrial organization, examining market power, the theory of the firm, and strategic behaviour, within classic and dynamic oligopoly theoretical frameworks. It makes explicit use of game theoretic techniques where appropriate. Topics may include: collusive and competitive behaviour, non-linear pricing, commitment and repeated games, and entry deterrence. (Format: Lecture 3 Hours) (Exclusion: ECON 3611)

### ECON 4621 (3.00 CR)
### INDUSTRIAL ORGANIZATION: POLICY

**Prereq:** ECON 2001; ECON 2011; 3 credits from MATH 1111, 1151; or permission of the Department

This course examines the economics of vertical and horizontal constraints. It provides an introduction to regulatory economics and Canadian and International competition policy. Topics may include policy issues concerning the control of mergers, monopoly, predatory pricing, collusion, resale price maintenance, exclusive dealing, tying, and other contractual agreements, including restrictions on contracting agents. (Format: Lecture 3 Hours) (Exclusion: ECON 3621)

### ECON 4700 (6.00 CR)
### ECONOMETRICS

**Prereq:** 6 credits from MATH 2221, ECON 2701; or 9 credits from MATH 2221, 3311, 3321; or permission of the Department

This course provides an introduction to the measurement of economic relationships. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 4801 (3.00 CR)
### ADVANCED ECONOMIC THEORY I

**Prereq:** ECON 2001; ECON 2011: ECON 2101; ECON 2111; MATH 1121; or permission of the Department

The course develops tools and techniques for analyzing problems in microeconomics. These include modern theories of the consumer and of the firm, general equilibrium, and welfare theorems. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce. Note 2: Although not required, the Economics Department recommends that students complete MATH 2111 and MATH 2221 prior to undertaking ECON 4801. Note 3: Honours students who wish to pursue graduate studies in economics are strongly advised to take this course.]

### ECON 4811 (3.00 CR)
### ADVANCED ECONOMIC THEORY II

**Prereq:** ECON 4801; or permission of the Department

The course develops tools and techniques for analyzing dynamic macroeconomic problems. Topics include growth models, overlapping generation models, and real business cycle models. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce. Note 2: Although not required, the Economics Department recommends that students complete MATH 2111 and MATH 2221 prior to undertaking ECON 4811. Note 3: Honours students who wish to pursue graduate studies in economics are strongly advised to take this course]

### ECON 4821 (3.00 CR)
### UNCERTAINTY AND STRATEGY IN ECONOMICS

**Prereq:** ECON 2001; ECON 2011; ECON 2101; ECON 2111; or permission of the Department

The course examines the roles played by uncertainty and asymmetric information in the allocation of resources. It also uses tools of probability theory to examine strategic interaction. Honours students who wish to pursue graduate studies in economics are strongly advised to take this course. (Format: Lecture 3 Hours) [Note 1: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 4950 (6.00 CR)
### INDEPENDENT STUDY IN ECONOMICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ECON 4950/51 more than once, provided the subject matter differs.]

### ECON 4951 (3.00 CR)
### INDEPENDENT STUDY IN ECONOMICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ECON 4950/51 more than once, provided the subject matter differs.]

### ECON 4990 (6.00 CR)
### HONOURS THESIS

A student fulfilling requirements for an Honours degree may elect to undertake a research and writing project of acceptable scope and quality under the supervision of faculty members in Economics. The student must submit a formal proposal to the Department prior to registration. (Format: Independent Study/Thesis) [Note 1: Written permission of the Department required. Note 2: Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.]

### ECON 4991 (3.00 CR)
### SPECIAL TOPIC IN ECONOMICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ECON 4991 more than once, provided the subject matter differs.]

# ENGLISH LITERATURES

The majority of students take at least one English course during their undergraduate career. While the curriculum focuses on literary study, students are encouraged to develop an appreciation for the English language that will stand them in good stead in all other fields of academic and professional endeavour. English is, in fact, a central study. The language is every student's essential instrument of understanding and expression, and the subject-matter of the literature touches on every area of human knowledge and experience. More and more, under the increasing threat in our society to the Humanities and the values they embody, the vital importance of English must be stressed. With urgent reason, English has become "the central humanity."

## GENERAL DESCRIPTION OF THE ENGLISH PROGRAM

The 1000 level series courses offer an introduction to a variety of approaches to the reading of and writing about literature, using texts from a range of genres and periods. At the 2000 level, students may choose from introduction to literary periods courses, Shakespeare course, and Canadian and American literature courses. These courses provide foundation for the 3000 level courses. At the 3000 level students are offered courses in traditional periods of English literature, various national literatures including Canadian and American, Postcolonial literature, dramatic literature, creative writing, film, genre and cultural studies.

Normally taken only in the fourth year when students are best equipped to benefit from them, the "Selected Topics" courses of the 4000 series provide an opportunity for students and faculty to develop their special interests. While various topics are offered from year to year at the 4000 level, students can pursue individual study and research under supervision (4951: Independent Study).

## Disciplinary B.A. Programs

### MINOR in English is 24 credits earned as follows:

| | |
|---|---|
| 3 | from ENGL 1201 |
| 3 | from ENGL 1501, 1701, 1801 |
| 6 to 9 | from English at the 2000 level |
| 9 to 12 | from English at the 3/4000 level, chosen in consultation with the Program Advisor |

### MAJOR in English is 60 credits earned as follows:

| | |
|---|---|
| 3 | from ENGL 1201 |
| 3 | from ENGL 1501, 1701, 1801 |
| 6 to 12 | from English at the 2000 level including 2201 and 2301 |
| 24 to 30 | from English at the 3/4000 level including:<br>a) 6 credits from the first four subject areas listed below (Medieval to 18th Century), and<br>b) credits from at least five of the eleven subject areas below. |
| 18 | credits from complementary courses in Arts and Letters and Humanities, chosen in consultation with the Program Advisor |

## HONOURS PROGRAM

Students with a strong interest in and aptitude for the subject may wish to seek an Honours Degree in English. The requirements are sixty-six English credits, as outlined below. Students should contact the Honours Co-ordinator to do Honours in January of the year in which they have third year standing.

### HONOURS in English (Course Option) is 66 credits earned as follows:

- 42 credits as in the first four lines of the Major, including ENGL 2211
- 6 from ENGL 3871, 3881
- 6 from English 4000-level senior seminar course
- 12 from English at the 3/4000 level, including 3 credits each from two additional subject areas (for a total in the Honours program of seven subject areas)

### HONOURS in English (Thesis Option) is 66 credits earned as follows:

- 42 credits as in the first four lines of the Major, including ENGL 2211
- 6 from English 4990
- 18 from English at the 3/4000 level, including 3 credits each from two additional subject areas (for a total in the Honours program of seven subject areas)

Students are encouraged to take more than the minimal number of English courses required; this will give them a wider coverage of the subject. ("Core" selections often include the Shakespeare courses and one course in Canadian literature)

1. The subject areas and corresponding courses are as follows:
   a) Medieval: 3011, 3021, 3241 (if appropriate), 4221 (if appropriate)
   b) Renaissance: 3211, 3231, 3241 (if appropriate), 3311, 4221 (if appropriate)
   c) 17th Century: 3351, 3361, 4221 (if appropriate)
   d) 18th Century: 3411, 3421, 3431, 3451, 3711, 4221 (if appropriate)
   e) 19th Century: 3451, 3461, 3481, 3491, 4231 (if appropriate)
   f) Modern: 3511, 3521, 3551, 3941, 4231 (if appropriate)
   g) Contemporary and Theoretical Studies: 3561, 3611, 3621, 3850, 3871, 3881, 3911, 3921, 3931, 4231 (if appropriate), 4921, 4931, 4941
   h) American: 3711, 3721, 3731, 3741, 4701, 4231 (if appropriate)
   i) Canadian: 3801, 3811, 3821, 3831, 3841, 4801
   j) Postcolonial: 3751, 3761, 3771, 3781, 4231 (if appropriate), 4801 (if appropriate), 4941 (if appropriate)
   k) Literature by Women: 3651, 3661, 4921 (if appropriate)

   Note: Any course may be counted in one category only. ENGL 4951 and 4990 fall outside the subject areas.
2. Each year the English Department prints, and publishes on the web, a Handbook which includes a detailed syllabus and the texts prescribed for each course offered in the English program in the current year, together with information on classes and assignments. Since it is impossible to offer in any one year all the courses listed here at the 2000, 3000 and 4000 level, students must use the Department's Handbook as their guide for the coming year.
3. Students may allow up to 6 credits in English for: Drama 3151 "Acting and Directing," Drama 3161 "Principles of Methods of Interpretation," and Drama 3001 "Dramatic Theory."
4. The Major or Minor in Drama. See Drama Entry

## SPECIAL REGISTRATION PROVISIONS 1000 AND 2000 SERIES

English 1111 and 1121 are companion courses that will fulfill the Arts and Letters distribution requirement for the Bachelor of Arts and Bachelor of Science degrees. Students who wish to pursue courses in English at the 2000 level and above, are required to take English 1201.

## DEPARTMENTAL ADVICE

At registration, students should consult with Departmental Program Advisors in the selection of courses.

## ENGLISH COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### ENGL 1111 (3.00 CR)
### LITERATURE, THE ARTS AND HUMANITIES

English 1111 provides an introduction to the interrelationship between literature and social issues, focusing on the intersection of the discipline of English with other fields in the Arts and Humanities. The course will acquaint beginning students with many of the major forms of English literature as encountered through discussions related to subjects such as the fine arts, religion, philosophy, history, and other fields in the Arts and Humanities. (Format: Lecture 3 Hours, Tutorials Time Arranged)

### ENGL 1121 (3.00 CR)
### LITERATURE, SCIENCE AND TECHNOLOGY

Like its companion course English 1111, English 1121 provides an introduction to the interrelationship between literature and social issues, in this case focusing on topics related to the fields of Science and Technology. The material will introduce beginning students to English Literature and its interaction with scientific and technological subjects in past and present societies. (Format: Lecture 3 Hours, Tutorials Time Arranged)

### ENGL 1201 (3.00 CR)
### INTRODUCTION TO PRINCIPLES OF LITERARY ANALYSIS

This course, offered in several sections each year, introduces students to critical approaches to the reading of, and writing about, literature. Each section has its own reading list, set by the individual instructor and including a balanced representation of prose, fiction, poetry and drama, taken from a range of historical periods.[Note 1: Students who wish to pursue courses in English at the 2000 level and above must take ENGL 1201.] (Format: Lecture 3 Hours) (Exclusion: ENGL 1001)

### ENGL 1501 (3.00 CR)
### INTRODUCTION TO POETRY

This course introduces the elements of poetry, including image, figure, rhythm, and form, and surveys outstanding achievements in the English tradition of poetry. (Format: Lecture 3 Hours) (Exclusion: ENGL 2011)

### ENGL 1701 (3.00 CR)
### INTRODUCTION TO DRAMA STUDIES

This course introduces conventions, forms, and devices of drama as they emerge under, and respond to, specific theatrical and cultural conditions. [Note 1: This course is cross-listed as DRAM 1701 and may be taken as three credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: DRAM/ENGL 2021)

### ENGL 1801 (3.00 CR)
### INTRODUCTION TO PROSE FICTION

**Prereq or Coreq:** ENGL 1201; or permission of the Department

This course will examine the two major prose genres of the novel and the short story; selected examples of representative forms will be chosen to illustrate the range and variety of both genres. (Format: Lecture 3 Hours) (Exclusion: ENGL 2031; ENGL 2041)

### ENGL 1991 (3.00 CR)
### SPECIAL TOPIC IN ENGLISH

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ENGL 1991 more than once, provided the subject matter differs.]

### ENGL 2201 (3.00 CR)
### LITERARY PERIODS TO 1800

**Prereq:** ENGL 1201; 3 credits from ENGL 1501, 1701, 1801; or permission of the Department

This course presents an intensive survey of English literary history from Anglo-Saxon times to the late eighteenth century as well as training in the research methods of the discipline. [Note 1: ENGL 2201 is mandatory for the Majors and Honours degrees.](Format: Lecture 3 Hours) (Exclusion: ENGL 2001)

### ENGL 2211 (3.00 CR)
### INTRODUCTION TO SHAKESPEARE

**Prereq:** ENGL 1201; 3 credits from ENGL 1501, 1701, 1801; or second-year standing in the Interdisciplinary Program in Drama; or permission of the Department

This course introduces students to a wide range of Shakespeare's plays. (Format: Lecture 3 Hours) (Exclusion: ENGL 2311; ENGL 2321; ENGL 3300)

### ENGL 2301 (3.00 CR)
### LITERARY PERIODS, 1800-PRESENT

**Prereq:** ENGL 1201; 3 credits from ENGL 1501, 1701, 1801; or permission of the Department

This course presents an intensive survey of English literary history from the Romantic period to the present as well as training in the research methods of the discipline. (Format: Lecture 3 Hours) [Note 1: ENGL 2301 is mandatory for the Majors and Honours degrees.]

### ENGL 2701 (3.00 CR)
### INTRODUCTION TO AMERICAN LITERATURE

**Prereq:** ENGL 1201; 3 credits from ENGL 1501, 1701, 1801; or permission of the Department

This course offers students an introductory survey of American writing from the colonial period to the present. (Format: Lecture 3 Hours)

### ENGL 2801 (3.00 CR)
### INTRODUCTION TO CANADIAN LITERATURE

**Prereq:** ENGL 1201; 3 credits from ENGL 1501, 1701, 1801; or permission of the Department

This course presents an introductory overview of Canadian literature from its beginnings to the present. (Format: Lecture 3 Hours) (Exclusion: ENGL 2800)

### ENGL 2991 (3.00 CR)
### SPECIAL TOPIC IN ENGLISH

**Prereq:** ENGL 1201; 3 credits from ENGL 1501, 1701, 1801; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ENGL 2991 more than once, provided the subject matter differs.]

### ENGL 3011 (3.00 CR)
### SURVEY OF MEDIEVAL LITERATURE

**Prereq:** ENGL 2201; 3 credits from ENGL at the 2000 level; or permission of the Department

A study of selected literary texts produced in England from the fifth century to the fifteenth century. Anglo-Saxon, Anglo-Norman and Celtic texts will be read in modern translations, Middle-English texts will be read in the original. Major texts and authors such as Beowulf, the Anglo-Saxon elegies, Chaucer, Lydgate and Malory will be included along with anonymous texts. (Format: Lecture 3 Hours) (Exclusion: ENGL 3011 Anglo-Saxon and Medieval Literature)

### ENGL 3021 (3.00 CR)
### MIDDLE-ENGLISH LITERATURE

**Prereq:** ENGL 3011; or permission of the Department

This course will concentrate on Middle-English literature produced in the twelfth to the fifteenth centuries. Prose and poetry genres, including lyrics, romances, dream visions and frame narratives may be studied in conjunction with a specific theme or subject. The texts will be read in the original Middle-English language. (Format: Lecture 3 Hours) (Exclusion: ENGL 3021 Later Medieval Literature)

### ENGL 3211 (3.00 CR)
### ADVANCED STUDIES IN SHAKESPEARE
**Prereq:** 3 credits from ENGL 2211, 3311; 3 credits from ENGL at the 2000 level; or permission of the Department

A study of a selected number of Shakespeare's plays at an advanced level, requiring students' engagement with current issues in Shakespearean scholarship and criticism. (Format: Lecture 3 Hours) (Exclusion: ENGL 3300)

### ENGL 3231 (3.00 CR)
### SIXTEENTH CENTURY LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course will examine development of literary forms and genres in the English Renaissance. It will provide an overview to the non-dramatic literary developments in the 16th Century, and will provide samples of the tremendous range of literature being produced in the Tudor period. (Format: Lecture 3 Hours)

### ENGL 3241 (3.00 CR)
### MAJOR TEXTS IN EARLY ENGLISH LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course will examine a major text, genre or theme from the Medieval and Renaissance periods. Topics will rotate from a selection of long texts and long text-based genres. Examples of such texts are: Beowulf, The Canterbury Tales, Piers Plowman, Morte D'Arthur, Sir Gawain and the Green Knight, The Faerie Queene, and Arcadia. (Format: Lecture 3 Hours) [Note 1: Please contact the English Department for the specific subject for each year.]

### ENGL 3311 (3.00 CR)
### ENGLISH DRAMA TO 1642
**Prereq:** ENGL/DRAM 1701; 3 credits from ENGL at the 2000 level or third-year standing in the Interdisciplinary Drama Program; or permission of the Department

A study of English dramatic literature and production, excluding Shakespeare, from the Middle Ages to the closing of the theatres in 1642. (Format: Lecture 3 Hours) (Exclusion: ENGL 3100; ENGL 3111; ENGL 3121)

### ENGL 3351 (3.00 CR)
### LITERATURE OF THE EARLY SEVENTEENTH CENTURY
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of the poetry and prose of the early seventeenth century, focusing on the work of authors such as Donne, Jonson, and Herbert. (Format: Lecture 3 Hours) (Exclusion: ENGL 3350)

### ENGL 3361 (3.00 CR)
### LITERATURE AND THE ENGLISH REVOLUTION
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of the poetry and prose which emerged from the political, religious, and social revolutions of the mid-seventeenth century, including the work of Marvell, Milton, and Bunyan. (Format: Lecture 3 Hours) (Exclusion: ENGL 3350)

### ENGL 3411 (3.00 CR)
### RESTORATION AND AUGUSTAN LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing of the Restoration and early Augustan periods (1660-1720). The variety of genres and authors to be studied includes early novels by Behn, Defoe, and Swift, formal verse satire by Rochester and Pope, verse epistles and lyrics by Philips and Finch, and diaries and memoirs by Pepys and Manley. (Format: Lecture 3 Hours) (Exclusion: ENGL 3400)

### ENGL 3421 (3.00 CR)
### LITERATURE IN THE AGE OF ENLIGHTENMENT
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing from the Age of Reason to the Age of Sensibility (1720-1780). The range of genres and authors to be studied includes satires by Pope and Johnson, novels by Haywood, Fielding, Sterne, and Burney, lyric odes by Carter, Collins, and Gray, and the first Gothic novel by Walpole. (Format: Lecture 3 Hours) (Exclusion: ENGL 3400)

### ENGL 3431 (3.00 CR)
### RESTORATION AND EIGHTEENTH CENTURY DRAMA
**Prereq:** ENGL/DRAM 1701; 3 credits from ENGL at the 2000 level or third-year standing in the Interdisciplinary Drama Program; or permission of the Department

This courses examines the major British playwrights and dramatic forms emerging between the time of the Restoration of the Monarchy (1660) and the end of the eighteenth century. Works will be assessed both in light of their contemporary theatrical conditions and as cultural artifacts of their respective ages. (Format: Lecture 3 Hours) (Exclusion: ENGL 3430)

### ENGL 3451 (3.00 CR)
### LITERATURE IN THE AGE OF ROMANTICISM
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing from 1780 to 1810, a period of profound cultural transformation under the impact of the American, French, and Industrial Revolutions. Romanticism was one response to this context, and the course will explore representative examples from the poetry of Blake, Smith, Coleridge, and William Wordsworth. Other genres to be studied will include the Gothic novel, the Jacobin novel, diaries, and epistolary essays. (Format: Lecture 3 Hours) (Exclusion: ENGL 3451 Literature in the Age of Revolution)

### ENGL 3461 (3.00 CR)
### LITERATURE OF THE REGENCY
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing of the early nineteenth century from the Regency through the reign of George IV (1810-1830). The literary genres to be studied will include Romantic poetry, Regency satire, the historical novel, and the novel of manners, written by such authors as Byron, Austen, Keats, the Shelleys, Scott, Hemans, and Landon. (Format: Lecture 3 Hours) (Exclusion: ENGL 3450)

### ENGL 3481 (3.00 CR)
### EARLY VICTORIAN LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing from the 1830s to the 1860s. Genres and authors to be studied include the novels, essays, and poems of such authors as Carlyle, the Brontes, Tennyson, Gaskell, Dickens, Elizabeth Barrett Browning, and Robert Browning. (Format: Lecture 3 Hours) (Exclusion: ENGL 3450)

### ENGL 3491 (3.00 CR)
### LATE VICTORIAN LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing at the zenith of the British Empire (1867-1900). The variety of genres and authors to be studied includes novels by Eliot, Thackeray and Hardy, essays by Arnold, Ruskin, and Pater, and poems by Webster, Field, Arnold, Hopkins, the pre-Raphealites, Christina Rossetti, and Wilde. (Format: Lecture 3 Hours) (Exclusion: ENGL 3450)

### ENGL 3511 (3.00 CR)
### EARLY TWENTIETH-CENTURY BRITISH LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines British writing from the turn of the twentieth century to the end of the Second World War. Although this period saw the formation of literary modernism, many British authors continued to write in more conventional modes. Many writers sought to understand how Western culture and civilization could allow for the destruction caused by total war. (Format: Lecture 3 Hours) (Exclusion: ENGL 3511 The Rise of Modernism)

### ENGL 3521 (3.00 CR)
### BRITISH LITERATURE SINCE 1945
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines various British literary works written since the Second World War. While some writers continued to experiment with style and form, other post-war British writers retreated from the experimentalism of the major modernists. (Format: Lecture 3 Hours)(Exclusion: Any version of ENGL 3521 previously offered with another title)

### ENGL 3551 (3.00 CR)
### THE DEVELOPMENT OF MODERN DRAMA
**Prereq:** ENGL/DRAM 1701; 3 credits from ENGL at the 2000 level or third-year standing in the Interdisciplinary Drama Program; or permission of the Department

A study of representative modern plays including works by Pirandello, Brecht, and Beckett chosen to illustrate the major developments in dramatic literature and production in the twentieth century. (Format: Lecture 3 Hours) (Exclusion: ENGL 3500)

### ENGL 3561 (3.00 CR)
### CONTEMPORARY DRAMA
**Prereq:** ENGL/DRAM 1701; 3 credits from ENGL at the 2000 level or third-year standing in the Interdisciplinary Drama Program; or permission of the Department

A study of selected contemporary plays and playwrights. (Format: Lecture 3 Hours) (Exclusion: ENGL 3500)

### ENGL 3611 (3.00 CR)
### DRAMA, THEATRE, AND SOCIETY
**Prereq:** ENGL/DRAM 1701; 3 credits from ENGL at the 2000 level or third-year standing in the Interdisciplinary Drama Program; or permission of the Department

This course examines ways in which drama may both reflect and influence society, using as examples the complex relationship between Restoration comedy and its society, efforts at social engineering in Eighteenth-Century bourgeois tragedy, the role of melodrama in reflecting nineteenth century society and culture, and the "birth" of social drama late in the nineteenth century. In addition, it carries these ideas forward to include study of political theatre of the 1920's and 1930's, as well as works by contemporary social playwrights. (Format: Lecture 3 Hours)

### ENGL 3621 (3.00 CR)
### READING FILMS
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course focuses on affinities between printed and cinematic narrative forms, introducing students as well to some of the principles of semiotics, and to the place of film theory within the context of cultural studies more generally. (Format: Lecture 3 Hours, Laboratory 2 Hours) [Note 1: This course may count as 3 credits in Art History.]

### ENGL 3651 (3.00 CR)
### LITERATURE BY WOMEN TO THE TWENTIETH CENTURY
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of literature by women before the twentieth century. This course employs a variety of critical approaches to define a tradition of writing by women. Works by such writers as Mary Godwin Shelley, Charlotte Brontë, Christina Rossetti, and Elizabeth Barrett Browning will be examined. (Format: Lecture 3 Hours) (Exclusion: ENGL 3650)

### ENGL 3661 (3.00 CR)
### LITERATURE BY WOMEN IN THE TWENTIETH - CENTURY
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of literature by women in the twentieth century. The course attempts to identify the major developments in the literature, using contemporary critical approaches. Works by such writers as Virginia Woolf, Jean Rhys and Margaret Atwood will be examined. (Format: Lecture 3 Hours) (Exclusion: ENGL 3650)

### ENGL 3711 (3.00 CR)
### AMERICAN LITERATURE FROM THE COLONIAL PERIOD TO THE CIVIL WAR

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of American Literature from its beginnings to 1865. This course focuses on various canonical texts which have become central to American culture and self-understanding; however, the course also makes room for voices of dissent, for those who criticized colonial practices and, after 1776, the newly formed United States of America. Finally, the course will consider various literary responses to what was called the "peculiar institution" that would ultimately divide the nation: slavery. (Format: Lecture 3 Hours) (Exclusion: ENGL 3711 Early American Literature)

### ENGL 3721 (3.00 CR)
### AMERICAN LITERATURE FROM THE CIVIL WAR TO THE PRESENT

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of American Literature from 1865 to the present. This course examines American writing and culture during the period when the United States became a colonial and, later, a world power. (Format: Lecture 3 Hours) (Exclusion: ENGL 3721 Twentieth Century American Literature)

### ENGL 3731 (3.00 CR)
### AFRICAN AMERICAN LITERATURE

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course offers a survey of African American writing from the eighteenth century to the present. In addition to "literary" texts, the course will examine selected examples of the African American vernacular tradition. (Format: Lecture 3 Hours)

### ENGL 3741 (3.00 CR)
### ASIAN AMERICAN LITERATURE

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course offers an introduction to a variety of Asian American writing from the late nineteenth century to the present. (Format: Lecture 3 Hours)

### ENGL 3751 (3.00 CR)
### POST-COLONIAL AFRICAN LITERATURE

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines African literature in English from 1950, covering the novel, drama, and poetry and relating the literature to both Post-Colonial theory and to the historical developments in African politics and cultures. (Format: Lecture 3 Hours) (Exclusion: ENGL 3751 Literatures of the South Pacific and Africa)

### ENGL 3761 (3.00 CR)
### LITERATURES OF AUSTRALIA, NEW ZEALAND AND THE SOUTH PACIFIC

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course traces the development, from their beginnings in the 1800's, of the literatures of Australia and New Zealand, and introduces the more recent literature from the South Pacific and island states. (Format: Lecture 3 Hours) (Exclusion: ENGL 3751 Literatures of the South Pacific and Africa)

### ENGL 3771 (3.00 CR)
### CARIBBEAN LITERATURE

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course offers an introduction to the literature of the Caribbean Islands since 1945. (Format: Lecture 3 Hours) (Exclusion: ENGL 3761 Literatures of South East Asia and Caribbean)

### ENGL 3781 (3.00 CR)
### THE LITERATURE OF INDIA AND SOUTHEAST ASIA

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course examines the 20th century literature of India and Southeast Asia against the history of the various independence movements and other ideological movements important to the cultures of the area. (Format: Lecture 3 Hours)

### ENGL 3801 (3.00 CR)
### CANADIAN LITERATURE FROM THE BEGINNINGS TO 1914

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of representative works of Canadian literature from the beginnings to the First World War. The development of Canadian literature from the exploration and settlement stage to Confederation and the beginnings of modernism will be presented. Works by such authors as Richardson, Moodie, Roberts, and Duncan will be examined. (Format: Lecture 3 Hours) (Exclusion: ENGL 3810)

### ENGL 3811 (3.00 CR)
### CANADIAN MODERNISM

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course will examine the developments in Modernism found in Canadian literature from 1910 to 1950. (Format: Lecture 3 Hours) (Exclusion: ENGL 3820)

### ENGL 3821 (3.00 CR)
### THE CANADIAN POSTMODERN

**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course will examine the proliferating innovations in the forms and themes of Canadian literature since 1950. (Format: Lecture 3 Hours) (Exclusion: ENGL 3820)

### ENGL 3831 (3.00 CR)
### ASPECTS OF CANADIAN LITERATURE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

A study of a selected aspect of Canadian literature. (Format: Lecture 3 Hours) (Exclusion: ENGL 3810)

### ENGL 3841 (3.00 CR)
### MODERN CANADIAN DRAMA
**Prereq:** DRAM/ENGL 1701; 3 credits from ENGL at the 2000 levle or third-year standing in the Interdisciplinary Drama Program; or permission of the Program Director

This course explores developments in Canadian theatre from the mid-1960s by looking at representative playwrights, plays, theatres, and movements. (Format: Lecture 3 hours) (Exclusion: ENGL 3991 Modern Canadian Drama)

### ENGL 3850 (6.00 CR)
### CREATIVE WRITING
**Prereq:** Acceptance of a portfolio of original creative work

This course will offers workshops in creative writing, concentrating primarily on poetry and short fiction; it may also include some work in other forms such as drama and the personal essay (Format: Seminar/Workshop 3 Hours)(Exclusion: ENGL 3851; ENGL 3861)

### ENGL 3871 (3.00 CR)
### CONTEMPORARY LITERARY THEORY I
**Prereq:** Third-year standing; 6 credits from ENGL at the 2000 level; or permission of the Department

This course offers an introduction to various contemporary theories of literature; diverse approaches, such as structuralist, semiotic, post-structuralist and "deconstructive" will be examined. (Format: Lecture 3 Hours) (Exclusion: ENGL 3880)

### ENGL 3881 (3.00 CR)
### CONTEMPORARY LITERARY THEORY II
**Prereq:** ENGL 3871; or permission of the Department

This course will draw upon the literary theories introduced in English 3871 while introducing further theoretical approaches such as psychoanalytic, feminist, and Marxist theories. (Format: Lecture 3 Hours) (Exclusion: ENGL 3880)

### ENGL 3911 (3.00 CR)
### STUDIES IN LITERARY GENRE
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course will address one or more popular genres of literature, paying attention to the emergence and rise of the genre(s) and to the narrative conventions of the genre(s). Generic literatures examined could include, but need not be limited to, autobiography, mystery, romance, speculative fiction, utopia or dystopia, etc. (Format: Lecture 3 Hours)

### ENGL 3921 (3.00 CR)
### CULTURAL STUDIES
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course offers an introduction to the broad field of contemporary cultural studies, paying particular attention to current theoretical models of 'reading' the texts of popular culture. Diverse forms of texts will be examined. (Format: Lecture 3 Hours)

### ENGL 3931 (3.00 CR)
### ASPECTS OF POSTMODERNISM
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course will examine various aspects of the postmodern aesthetic by exploring post-modern writing, such as that by Barth, Eco, Carter, Calvino, or Acker, within the context of recent theories of postmodernism; the course will explore implications of postmodernism as both a cultural and an aesthetic phenomenon. (Format: Lecture 3 Hours)

### ENGL 3941 (3.00 CR)
### MODERNISM
**Prereq:** 6 credits from ENGL at the 2000 level; or permission of the Department

This course is an introduction to concepts of modernism in literature and culture. While the course focuses on modernist literature written in English, its scope is international and interdisciplinary. Students study foundational modernist literary texts, but also read other works, in philosophy, anthropology, and psychology, for example, and consider other art forms in order to understand the cultural forces from which modernism arose. (Format: Lecture 3 Hours)

### ENGL 3991 (3.00 CR)
### SPECIAL TOPIC IN ENGLISH
This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ENGL 3991 more than once, provided the subject matter differs.]

### ENGL 4221 (3.00 CR)
### SELECTED TOPICS IN PRE-1800 LITERATURE
**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from pre-1800 English literature. (Format: Seminar 3 Hours)[Note 1: ENGL 4221 may be taken for credit more than once if the topic differs]

### ENGL 4231 (3.00 CR)
### SELECTED TOPICS IN POST-1800 LITERATURE
**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from post-1800 English literature. (Format: Seminar 3 Hours)[Note 1: ENGL 4231 may be taken for credit more than once if the topic differs]

### ENGL 4701 (3.00 CR)
### SELECTED TOPICS IN AMERICAN LITERATURE

**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from American English literature. (Format: Seminar 3 Hours)[Note 1: ENGL 4701 may be taken for credit more than once if the topic differs]

### ENGL 4801 (3.00 CR)
### SELECTED TOPICS IN CANADIAN LITERATURE

**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from Canadian English literature. (Format: Seminar 3 Hours)[Note 1: ENGL 4801 may be taken for credit more than once if the topic differs]

### ENGL 4921 (3.00 CR)
### SELECTED TOPICS IN SEX, GENDER AND LITERATURE

**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from English literature dealing with sex and gender. (Format: Seminar 3 Hours)[Note 1: ENGL 4921 may be taken for credit more than once if the topic differs]

### ENGL 4931 (3.00 CR)
### SELECTED TOPICS IN TEXT AND TECHNOLOGY

**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from English literature dealing with text and technology. (Format: Seminar 3 Hours)[Note 1: ENGL 4931 may be taken for credit more than once if the topic differs]

### ENGL 4941 (3.00 CR)
### SELECTED TOPICS IN LITERARY REPRESENTATIONS OF RACE, CULTURE AND NATION

**Prereq:** Third-year standing; permission of the Department. Preference is given to students pursuing a course-based Honours

This course examines closely selected topics drawn from English literature dealing with representations of race, culture, and nation. (Format: Seminar 3 Hours)[Note 1: ENGL 4941 may be taken for credit more than once if the topic differs]

### ENGL 4950 (6.00 CR)
### INDEPENDENT STUDY IN ENGLISH

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ENGL 4950/51 more than once, provided the subject matter differs.]

### ENGL 4951 (3.00 CR)
### INDEPENDENT STUDY IN ENGLISH

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for ENGL 4950/51 more than once, provided the subject matter differs.]

### ENGL 4990 (6.00 CR)
### HONOURS THESIS

Supervised by members of the Department, candidates for an Honours degree (Thesis Option) must complete an Honours thesis of acceptable scope and quality. The subject of the Honours thesis is to be approved by the Department at the end of the year in which the student will achieve fourth year standing (completion of at least 84 credits). A formal thesis proposal must be submitted to and approved by the Department at the beginning of the subsequent Fall term. The candidate is to be directly responsible to a supervisor and a department committee. (Format: Independent Study/Thesis)

### ENGL 4991 (3.00 CR)
### SPECIAL TOPIC IN ENGLISH

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for ENGL 4991 more than once, provided the subject matter differs.]

# ENVIRONMENTAL SCIENCE

See Geography and Environment

# ENVIRONMENTAL STUDIES

See Geography and Environment

# FINE ARTS

The teaching of art at Mount Allison University can be traced back to the opening of the Women's Academy in 1854. It has been an important part of the curriculum since that time. In 1941 Mount Allison was the first university in Canada to give a B.F.A. degree in the visual arts. Much of the Department's history was, and is, directly related to the Owens Art Gallery. Until 1965, when the Department moved to its own quarters in the Purdy Crawford Centre for the Arts Building, the Department was housed in the gallery. Since that time the gallery has been extensively remodelled into one of the largest in the Maritimes, serving both the university and community. We enjoy one of the best student/staff ratios of any art department in the country. The Department not only occupies its own building but has excellent facilities in other parts of the campus. We are proud of our tradition but prouder still of our ability to keep up with the changing needs of our students.

## THE B.F.A. PROGRAM

A description of the program leading to the B.F.A. degree is given in Section 11.7 of the Calendar. Studio courses are offered in the following areas: Drawing, Painting, Photography, Printmaking, Sculpture and Open Media.

## Disciplinary B.A. Programs

A Minor or Major in Fine Arts which includes a combination of Art History and Studio Art courses may also be completed on a B.A. degree. Students should submit a portfolio of artwork for assessment by February 14, to be considered for a Major or Minor in Fine Arts. Students completing a B.A. may earn a Minor or Major in Art History. These programs are outlined under Art History at the beginning of the section.

### MINOR in Fine Arts is 24 credits earned as follows:

- 6 from FINA 2001, FINA 2011, FINH 2001, FINH 2011, FINH 2101, FINH 2111; or other Art History with permission of the Department
- 6 from 1000 level Fine Arts studio courses
- 6 from 2000 level Fine Arts studio courses
- 6 from 3000 level Fine Arts studio courses

**Note:** Students must have appropriate pre-requisites for 2/3000 level courses or permission of the Department

### MAJOR in Fine Arts is 60 credits earned as follows:

- 12 from Art History, (including 6 at the 2000 level)
- 15 from Fine Arts 1101, 1111, 1921, 1931, 2101
- 24 from 1000/2000/3000 level Fine Arts studio courses (9 credits must be at the 3000 level)
- 6 from 4000 level Fine Arts Advanced studio courses
- 3 from Fine Arts Seminar 3701, 4701 or Art History Seminar 4091

**Note:** Students must have appropriate pre-requisites for 2/3/4000 level studio courses or permission of the Department

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

## STUDIO COURSES

The pre-requisite for 2000 level studio courses is the successful completion of the appropriate 1000 level course; i.e. 1101, 1111, 1901, 1911, 1921, 1931. Any first year studio course that is failed will have to be passed by the end of the next academic year in which the student is enrolled.

The following studio courses will be charged Fine Arts Instructional Supplies Fees: FINA 1921, 1931, 2201, 2211, 2401, 2411, 2501, 2511, 3201, 3211, 3401, 3411, 3501, 3511, 4801, 4811, 4821, and 4831. This list is subject to change.

**Studio Courses Open to Non-Fine Arts Students**

Six credits chosen from FINA 1101, 1111, 1901, 1911, and FINA 1921, 1931 are open to students from other degree programs, dependent on available space, and by written permission of the Department only.

Preference will be given to students with a major in Art History or Drama.

Students who have no background or previous training in visual art should be advised that these courses are required for the Bachelor of Fine Arts degree program and that standards are set accordingly.

Upper level studio courses will be open to students from other programs on a space available basis, provided that the student has met the prerequisite requirement, or been granted the permission of the Department.

### FINA 1101 (3.00 CR)
### FUNDAMENTALS OF DRAWING I

This course will introduce the student to drawing as a common language of expression in the visual arts. A variety of drawing media will be used. (Format: Studio)

### FINA 1111 (3.00 CR)
### FUNDAMENTALS OF DRAWING II

**Prereq:** FINA 1101; or permission of the Department

This course is a continuation of Fine Arts 1101. It is required of all students enrolled in the B.F.A. program. (Format: Studio)

### FINA 1901 (3.00 CR)
### ELEMENTS OF ART I

This course focuses on elements of two dimensional design in black and white and colour. It also surveys theories of composition in the visual arts and provides an introduction to art theory and media. (Format: Studio)

### FINA 1911 (3.00 CR)
### ELEMENTS OF ART II

**Prereq:** FINA 1901; or permission of the Department

This course surveys elements of three dimensional design and composition, alternate media and processes, and non-conventional and lateral thinking in the visual arts. The course is required of all students in the B.F.A. program. (Format: Studio)

### FINA 1921 (3.00 CR)
### INTRODUCTION TO MEDIA I

This course is designed to introduce the studio areas of printmaking and photography. It is required of all B.F.A. students. (Format: Studio)

### FINA 1931 (3.00 CR)
### INTRODUCTION TO MEDIA II

This course is designed to introduce the studio areas of painting and sculpture. It is required of all B.F.A. students. (Format: Studio)

### FINA 1991 (3.00 CR)
### SPECIAL TOPIC IN FINE ARTS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINA 1991 more than once, provided the subject matter differs.]

### FINA 2101 (3.00 CR)
### DRAWING I

**Prereq:** FINA 1101; FINA 1111; or permission of the Department

This course emphasizes drawing from the figure and also includes various other projects related to drawing. It is required of all B.F.A. students. (Format: Studio)

### FINA 2111 (3.00 CR)
### DRAWING II

**Prereq:** FINA 2101; or permission of the Department

This course is a continuation of Drawing I. It is required of all B.F.A. students. (Format: Studio)

### FINA 2201 (3.00 CR)
### PRINTMAKING I

**Prereq:** FINA 1921; or permission of the Department

This course introduces intaglio and relief printmaking techniques. (Format: Studio)

### FINA 2211 (3.00 CR)
### PRINTMAKING II

**Prereq:** FINA 1921; or permission of the Department

This course introduces lithography printmaking techniques. (Format: Studio)

### FINA 2301 (3.00 CR)
### PAINTING I

**Prereq:** FINA 1931; or permission of the Department

This course uses various media to focus on the fundamentals of basic painting. It explores colour and techniques and emphasizes observational painting, from various subjects including the figure. (Format: Studio)

### FINA 2311 (3.00 CR)
### PAINTING II
**Prereq:** FINA 2301; or permission of the Department

This is an exploration of painting materials and means, pictorial elements, and issues fundamental to expressive painting. Both traditional and contemporary painting will be considered. (Format: Studio)

### FINA 2401 (3.00 CR)
### SCULPTURE I
**Prereq:** FINA 1931; or permission of the Department

This course addresses the basic sculptural practices through a variety of sculptural traditions, including wire, wood, mesh, scavenged or natural materials and clay. (Format: Studio)

### FINA 2411 (3.00 CR)
### SCULPTURE II
**Prereq:** FINA 2401; or permission of the Department

This course is a continuation of FINA 2401 and emphasizes a more experimental approach to sculpture. This course investigates how the shape and form of a structure is imposed by the materials used. (Format: Studio)

### FINA 2501 (3.00 CR)
### PHOTOGRAPHY I
**Prereq:** FINA 1921; or permission of the Department

Fine Arts 2501 is intended to give the fine arts photography student a firm background both aesthetically and technically in the uses of photography as a fine art medium. The following will be covered: conceptualization of the image/technical review, exposing film for optimum results (slide & B&W), processing and proofing, storage and editing, introduction to the fine print portfolio presentation, evaluation criticism, and an historical perspective. Each student is required to own a 35 mm camera with manual metering. (Format: Studio)

### FINA 2511 (3.00 CR)
### PHOTOGRAPHY II
**Prereq:** FINA 2501; or permission of the Department

Fine Arts 2511 addresses itself both aesthetically and technically in small format photography as a component of your development as an artist. This course will deal with notions of the black and white "fine print", social, political and personal issues in the work and portfolio development as well as a number of other studio techniques. Assignments dealing with portraiture, self portraiture, landscape and photo fabrication will allow for personal investigation of a number of given subjects that may or may not contribute to the conceptualization of the final portfolio. (Format: Studio)

### FINA 2991 (3.00 CR)
### SPECIAL TOPIC IN FINE ARTS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINA 2991 more than once, provided the subject matter differs.]

### FINA 3101 (3.00 CR)
### INTERMEDIATE DRAWING I
**Prereq:** FINA 2101; FINA 2111; or permission of the Department

This course demands an advanced approach to drawing to further students' understanding of the cultural, historical, and theoretical issues related to drawing through refinement of technical and conceptual skills. It provides for increased responsibility to work independently, apply research, and generate subject matter. (Format: Studio)

### FINA 3111 (3.00 CR)
### INTERMEDIATE DRAWING II
**Prereq:** FINA 3101; or permission of the Department

This course emphasizes individual direction and style in drawing, using a variety of traditional and non-traditional media. (Format: Studio)

### FINA 3201 (3.00 CR)
### INTERMEDIATE PRINTMAKING I
**Prereq:** FINA 2201; FINA 2211; or permission of the Department

Fine Arts 3201 and 3211 survey traditional and non-traditional printmaking for students with a background in printmaking. (Format: Studio)

### FINA 3211 (3.00 CR)
### INTERMEDIATE PRINTMAKING II
**Prereq:** FINA 3201; or permission of the Department

Fine Arts 3201 and 3211 survey traditional and non-traditional printmaking for students with a background in printmaking. (Format: Studio)

### FINA 3301 (3.00 CR)
### INTERMEDIATE PAINTING I
**Prereq:** FINA 2301; FINA 2311; or permission of the Department

This course focuses on the study of figurative and non-figurative painting, using various painting methods and mixed media. Consideration will be given to contemporary artists and to the cultural context of painting. (Format: Studio)

### FINA 3311 (3.00 CR)
### INTERMEDIATE PAINTING II
**Prereq:** FINA 3301; or permission of the Department

Students will explore uses of various painting and mixed media, and work from figurative and non-figurative sources as they complete projects with diverse formal, thematic or conceptual objectives. (Format: Studio)

### FINA 3401 (3.00 CR)
### INTERMEDIATE SCULPTURE I
**Prereq:** FINA 2401; FINA 2411; or permission of the Department

This course emphasizes contemporary attitudes, theory, and non-traditional approaches to sculpture. It addresses a mixed media approach, installation, and outdoor or environmental art. (Format: Studio)

### FINA 3411 (3.00 CR)
### INTERMEDIATE SCULPTURE II

**Prereq:** FINA 3401; or permission of the Department

This course investigates student initiated work, public sculpture proposals, and model making which combines and/or extends approaches from previous courses and which lead into the fourth year tutorial program. (Format: Studio)

### FINA 3501 (3.00 CR)
### INTERMEDIATE PHOTOGRAPHY I - THE VIEW CAMERA

**Prereq:** FINA 2501; FINA 2511; or permission of the Department

This course covers the use of medium and large format cameras in the context of landscape and studio work, through use of colour and black and white materials. (Format: Studio)

### FINA 3511 (3.00 CR)
### INTERMEDIATE PHOTOGRAPHY II - COLOUR AND PHOTOFABRICATION

**Prereq:** FINA 3501; or permission of the Department

A continuation of 3501 with colour printmaking and photo fabrication assignments. Processes covered include RA4 and Ilfochrome colour printmaking, Platinum, Cyanotype, Van Dyke and other alternate printing methods. Further exploration will include advanced view camera and studio technique. (Format: Studio)

### FINA 3601 (3.00 CR)
### INTERMEDIATE OPEN MEDIA I

**Prereq:** 12 credits from FINA 2101, 2111, 2201, 2301, 2311, 2401, 2411, 2501, 2511; or permission of the Department

Fine Arts 3601 and 3611 will offer the opportunity to integrate various media with which the student is already familiar. They will also introduce technical skills and a conceptual framework to facilitate this investigation. Performance and installation may be components of the course. Either or both courses may be taken for credit. (Format: Studio)

### FINA 3611 (3.00 CR)
### INTERMEDIATE OPEN MEDIA II

**Prereq:** Completion of at least 4 of the following courses: FINA 2101, 2111, 2201, 2301, 2311, 2401, 2411, 2501, 2511; or permission of the Department

(Format: Studio)

### FINA 3701 (3.00 CR)
### THIRD YEAR SEMINAR IN FINE ARTS

A seminar course on contemporary art issues in Fine Arts, usually taught in the second term of each year. Students will lead seminar discussions on selected topics and produce research papers. The course is required of all third year B.F.A. students. [Note 1: Open to only B.F.A. students and open to other students on a space available basis with preference given to students in the BA degree program with a Major or Minor in Art History or Fine Arts; or permission of the Department.](Format: Seminar)

### FINA 3991 (3.00 CR)
### SPECIAL TOPIC IN FINE ARTS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINA 3991 more than once, provided the subject matter differs.]

### FINA 4701 (3.00 CR)
### ADVANCED SEMINAR IN FINE ARTS

An advanced seminar on contemporary art issues in Fine Arts, taught in the first term of each year. Students will lead seminar discussions on selected topics and produce research papers. The course is required of all fourth year B.F.A. students. [Note 1: Open to only B.F.A. students and open to other students on a space available basis with preference given to students in the BA degree program with a Major or Minor in Art History or Fine Arts; or permission of the Department.](Format: Seminar)

### FINA 4801 (3.00 CR)
### ADVANCED STUDIO I: CRITIQUE

**Prereq:** Registration in the fourth-year of the BFA Degree or BA Degree with Major in Fine Arts

This course requires regular class critiques for fourth year students to workshop and develop an independently produced body of studio work thereby meeting students' needs for critical feedback in a single medium or in various media.(Format: Studio)

### FINA 4811 (3.00 CR)
### ADVANCED STUDIO II: CRITIQUE

**Prereq:** Registration in the fourth-year of the BFA Degree or BA Degree with Major in Fine Arts

This course requires regular class critiques for fourth year students to workshop and develop an independently produced body of studio work thereby meeting students' needs for critical feedback in a single medium or in various media (Format: Studio)

### FINA 4821 (3.00 CR)
### ADVANCED INDEPENDENT STUDIO I

**Prereq:** Registration in the fourth-year of the BFA Degree or BA Degree with Major in Fine Arts

This course requires that students create studio work independently while working with one faculty advisor thereby meeting a student's needs for critical feedback in a singe medium or in various media.(Format: Studio)[Note: This course is arranged by a student with a faculty member on an individual basis.]

#### FINA 4831 (3.00 CR)
#### ADVANCED INDEPENDENT STUDIO II

**Prereq:** Registration in the fourth-year of the BFA Degree or BA Degree with Major in Fine Arts

This course requires that students create studio work independently while working with one faculty advisor thereby meeting a student's needs for critical feedback in a single medium or in various media.(Format: Studio)[Note: This course is arranged by a student with a faculty member on an indidual basis.]

#### FINA 4950 (6.00 CR)
#### INDEPENDENT STUDY IN FINE ARTS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for FINA 4950/51 more than once, provided the subject matter differs.]

#### FINA 4951 (3.00 CR)
#### INDEPENDENT STUDY IN FINE ARTS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for FINA 4950/51 more than once, provided the subject matter differs.]

#### FINA 4991 (3.00 CR)
#### SPECIAL TOPIC IN FINE ARTS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FINA 4991 more than once, provided the subject matter differs.]

## Art History Courses

See Art History

# FRENCH STUDIES

See Modern Languages and Literatures

# GEOGRAPHY

See Geography and Environment

# GEOGRAPHY AND ENVIRONMENT

The Geography and Environment Department offers three degree programs: a B.A. in Geography, a B.A. in Environmental Studies, and a B.Sc. in Environmental Science.

The Geography B.A. program is designed for students interested in the study of social sciences at various spatial and temporal scales and leads to the completion of a Minor, Major, or Honours. It is about the study of place and involves understanding the processes that have acted together to shape the complex "place" structures that exist in our world and on our landscape. Such study requires an understanding of the principles of ecological and physical systems; of the cultural, social, economic and political forces acting on those systems; and of the management, planning or scientific tools necessary to meet environmental challenges and opportunities.

The Environmental Studies B.A. program is designed for students interested in the human dimensions of environmental change and problem-solving, including environmental behaviour, management, planning, and policy. It operates as an inter-disciplinary, cross-departmental degree program and leads to the completion of a Minor, Major, or Honours. Studies in this stream address such topics as environmental policy and economics, natural resource management, and environmental ethics.

The Environmental Science B.Sc. program is an interdisciplinary, science-intensive program, requiring comprehensive study of the sciences and mathematics leading to a Major or Honours. Courses in this program provide the strong but diverse scientific foundation required to understand environmental issues from a multi-disciplinary perspective. In consultation with the co-ordinator, students will complement their program with an in-depth concentration of courses to provide them with a scientific specialty.

## Interdisciplinary B.Sc. Programs

### MINOR in Environmental Science

Students who are interested in completing a Minor in Environmental Science must consult the Program Advisor to determine an appropriate group of courses before seeking approval from the Academic Dean under Calendar Regulation 11.2.17. Normally this consultation should occur in the student's second year of study.

### MAJOR in Environmental Science is 63 credits earned as follows:

6 from GENS 1401, 2421
3 from GENV 1201, 2001, 2101, ANTH 2501, PHIL 1651
9 from BIOL 1001, 1501, 2101
3 from CHEM 1001
3 from PHYS 1041, 1051
6 from PHYS 1021, 1031, 1551, CHEM 1021, BIOC 1001, 2001
3 from MATH 1111, 1151
3 from MATH 1121, 2221, COMP 1631
3 from BIOL 2701, MATH 2311, GENS 2431
24 from complementary science courses at the 3000/4000 level chosen in consultation with the Program Advisor*

**Note:** * Consultation must occur before the student's second year of study.

### HONOURS in Environmental Science is 78 credits as follows:

63 credits as in the Major, plus:
6 from complementary science courses at the 3000/4000 level approved by the program advisor*
3 from GENS 4421
6 from GENS 4990

**Note:** Students who have completed any one of the former Environmental Science course listings or Physical Geography courses will have credits applied to their Geography and Environment B.Sc. program.

**Note:** All GENS B.Sc. courses are considered Science credits for the completion of degree requirements and may be used to meet the Distribution requirements for Science.

## Interdisciplinary B.A. Programs

### MINOR in Environmental Studies is 24 credits earned as follows:

6 from GENV 1201, GENS 1401
3 from GENV 2001
9 from ECON 1001 and 1011, 3801
6 from GENV 3101, 3111, 3201, 3531, 4101, 4111, 4201, PHIL 3721, RELG 3981, ANTH 4531

### MAJOR in Environmental Studies is 66 credits earned as follows:

9 from GENS 1401, GENV 1201, 2001
3 from BIOL 1001, CHEM 1001, PHYS 1041, PHYS 1051
9 from ECON 1001, 1011, 3801
6 from GENS 2411, 2421, 2441, 3411, 3451, 3461
6 from GENV 3701 or GENS 3401, GENS 2431 or MATH 2311
15 from GENV 3101, 3201, 3211, 3531, 4101, 4111, 4201, 4211
18 from Optional Streams. Choose 9 credits of complementary courses from each of two of the following Optional Streams listed below. Note: At least 9 of 18 elective stream credits must be at the 3/4000 level.

**Environment and Society:**

ANTH 1011, 2501, 3031, 3541, 4531
GENV 2101, 3101, 3111, 4101
SOCI 1001, 4511

**Environmental Policy and Economics:**

ECON 2301, 2311, 3501, 3601, 3821
GENV 2201, 2221, 3101, 3201, 3211, 3531, 4111, 4201, 4211
INLR 2301, 3201, 3301, 3311, 4101, 4301
POLS 2101, 3141, 4121, 4141

**Environmental History and Philosophy:**

HIST 1651, 3401, 4321
PHIL 1651, 2701, 3511, 3721
RELG 2411, 3981

**Ecology and Environment:**

GENS 2411, 2421, 2441, 3411, 3421, 3451, 3461, 4421, 4721
BIOL 2101, 3201, 3301, 3361, 3711, 3781, 3801, 3811, 3911, 4101, 4111

### HONOURS in Environmental Studies is 78 credits earned as follows:

66 credits as in the Major, plus:
6 from GENV 4990
6 from courses at the 3000/4000 level in one of the elective streams chosen for the Major

## Disciplinary B.A. Programs

### MINOR in Geography is 24 credits earned as follows:

6 from GENV 1201, GENS 1401
18 from Geography and Environment including 6 from the 3/4000 level, chosen in consultation with the Program Advisor

### MAJOR in Geography is 60 credits earned as follows:

6 from GENS 1401, 2421
3 from GENV 1201
9 from GENV 2101, 2201, 2221, 2811
9 from GENS 2431, 2441, 3401 or GENV 3701
18 from Geography and Environment at the 3/4000 level, including 6 credits from the 4000 level
15 credits from complementary courses chosen in consultation with the Program Advisor

### HONOURS in Geography is 72 credits earned as follows:

60 credits as in the Major, plus:
6 from GENV 4990
6 from Geography and Environment at the 3/4000 level, including 3 from the 4000 level, chosen in consultation with the Program Advisor

## Interdisciplinary B.A. and B.Sc. Programs

### B.A. or B.Sc. MINOR in Geographic Information Systems is 24 credits earned as follows:

6 from COMP 1631, 1731
3 from GENS 1401, GENV 1201
3 from GENS 2431, MATH 2311
6 from GENS 2441, GENS 4721
3 from COMP 2611, 3851
3 from GENS 3401, GENV 3701

# GEOGRAPHY AND ENVIRONMENT COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

## GENS COURSES

#### GENS 1401 (3.00 CR)
#### THE PHYSICAL ENVIRONMENT

This course provides an introduction to the general principles of Physical Geography and the Environment, emphasizing the physical world at a variety of spatial and temporal scales. This course introduces the four fundamental spheres of Physical Geography: the hydrosphere, lithosphere, atmosphere and biosphere. It examines basic processes in the physical environment such as the seasons, layers of the atmosphere, the earth's energy budget and interactions with atmospheric processes. It also investigates weather and its interplay within the hydrological cycle, the fundamentals of climatology, the three basic rock types, tectonic activity and weathering of the earth's surface. (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: GEOG 1401)

#### GENS 1991 (3.00 CR)
#### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENS 1991 more than once, provided the subject matter differs.]

#### GENS 2411 (3.00 CR)
#### GEOMORPHOLOGY

**Prereq:** GENS 1401; or permission of the Department

This course is an introduction to geomorphology, the science that explores the processes that shape the Earth's surface. Its first half deals with the large-scale relief features of the Earth and how they are shaped by the processes of weathering, erosion, and sedimentary deposition. The second half introduces landforms/landscapes that exist in glacial, fluvial, coastal, and desert environments. It also explores the geomorphic agents which control the formation and evolution of these landforms/landscapes. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: GEOS 2401; GEOG 2411)

#### GENS 2421 (3.00 CR)
#### WEATHER AND CLIMATE

**Prereq:** GENS 1401; or permission of the Department

This course highlights elements of weather and climate including the composition and thermal structure of the atmosphere, radiation and energy balances, global circulation, air masses, fronts and atmospheric disturbances, and climates of the world. It places special emphasis on recent climatic changes in the environment. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: GEOG 2421)

### GENS 2431 (3.00 CR)
### DATA ANALYSIS

**Prereq:** 3 credits from GENV 1201, GENS 1401; or permission of the Department

This course develops basic skills in data collection, analysis, and presentation. It introduces basic statistical and hypothesis testing procedures, along with relevant software. (Format: Lecture/Laboratory 3 Hours) (Exclusion: GEOG 2711)

### GENS 2441 (3.00 CR)
### GEOGRAPHIC INFORMATION SYSTEMS

**Prereq:** Second-year standing; 3 credits from GENS 2431, MATH 2311; or permission of the Department

This course surveys several aspects of traditional cartography, examines one or more Geographic Information Systems, and explores the role of maps in conveying geographic information. (Format: Lecture/Laboratory 3 Hours) (Exclusion: GEOG 2721; GEOG 3711)

### GENS 2991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENS 2991 more than once, provided the subject matter differs.]

### GENS 3401 (3.00 CR)
### RESEARCH METHODS IN ENVIRONMENTAL SCIENCE

**Prereq:** Third-year standing; GENS 2431; permission of the Department

This course begins with a critical examination of current research techniques. Students then design, implement, complete, and evaluate a field research project in environmental science. [Note 1: This course requires attendance at an off-campus field camp and students will be liable for some field trip costs.](Format: Lecture 3 Hours, Multi-Day Field Camp)(Exclusion: GEOG 3401, 3701; GENV 3701)

### GENS 3411 (3.00 CR)
### COASTAL GEOMORPHOLOGY

**Prereq:** GENS 2431; GENS 2411; or permission of the Department

This course introduces coastal geomorphology by emphasizing current theories of coastal processes set in a context of natural systems. Topics include waves and currents, sediment transport, evolution of coastal features, and coastal management. (Format: Lecture 3 Hours, Laboratory 3 Hours)(Exclusion: GEOG 3411; GEOS 3111)

### GENS 3421 (3.00 CR)
### BIOGEOGRAPHY

**Prereq:** GENS 2421; 3 credits from GENS 2431, BIOL 2701; or permission of the Department

This course explores the links between the geomorphology and climatology of a region and the plant-animal environments through a biogeographical approach to ecological studies. It focuses on the geography of plants including environmental controls of plant distributions and the functional and historical aspects of plant communities. [Note 1: This course is cross-listed with BIOL 3421 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours, Laboratory 3 Hours)(Exclusion: GEOG 3421)

### GENS 3451 (3.00 CR)
### EARTH SYSTEM SCIENCE

**Prereq:** GENS 1401; GENS 2421; 6 credits from BIOL 1001, BIOL 1501, BIOC 1001, CHEM 1001, PHYS 1041, PHYS 1051; or permission of the Department

This course integrates atmospheric, oceanographic, geological and biological concepts with a historical perspective to introduce the major processes that have shaped Earth's environment. The course examines climatic processes on geological time scales, the evolution of organisms, the cycling of elements, and the feedbacks between these processes.(Format: Lecture 3 Hours)(Exclusion: ENVS 3001)

### GENS 3461 (3.00 CR)
### OCEANOGRAPHY

**Prereq:** GENS 1401; GENS 2421; 6 credits from BIOL 1001, BIOL 1501, BIOC 1001, CHEM 1001, PHYS 1041, PHYS 1051; or permission of the Department

This course introduces the interdisciplinary field of Oceanography, covering many of the fundamental biological, chemical, geological, and physical processes in the ocean. Topics include the physical and chemical properties of seawater, oceanic box models and climate models, controls on the vertical and horizontal distribution of elements in the sea, controls on primary production, and the climate record in ocean sediments. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### GENS 3991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

**Prereq:** Third-year standing; GENS 1401; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENS 3991 more than once, provided the subject matter differs.]

### GENS 4421 (3.00 CR)
### SEMINAR IN ENVIRONMENTAL SCIENCE

**Prereq:** Registration in the final year of a Major or Honours in Environmental Science

This course examines current issues in environmental science. Students prepare case studies of specific problem areas in environmental science and present these in a seminar format. (Format: Seminar 3 Hours)(Exclusion: ENVS 4901)

### GENS 4701 (3.00 CR)
### ADVANCED FIELD COURSE

**Prereq:** 3 credits from GENV 3701, GENS 3401; or permission of the Department

This is an extended field course to be completed outside the September-May academic year in which students complete a supervised original research project at an off-campus location. [Note 1: This course is cross-listed as GENV 4701 and may therefore count as 3 credits in either discipline.](Format: Field Course)(Exclusion: GEOG 4701)

### GENS 4721 (3.00 CR)
### ADVANCED GEOGRAPHIC INFORMATION SYSTEMS

**Prereq:** GENS 2431; GENS 2441; or permission of the Department

This course builds on the key concepts from GENS 2441 by introducing programming for automation and exploring advanced methods for producing and visualizing surfaces and data. It increases students' proficiency in the application of GIS and prepares them to conduct sophisticated spatial analyses. (Format: Lecture/Laboratory 3 Hours)(Exclusion: GENS 4951 Advanced Geographic Information Systems)

### GENS 4950 (6.00 CR)
### INDEPENDENT STUDY IN GEOGRAPHY AND ENVIRONMENT

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GENS 4950/51 more than once, provided the subject matter differs.]

### GENS 4951 (3.00 CR)
### INDEPENDENT STUDY IN GEOGRAPHY AND ENVIRONMENT

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GENS 4950/51 more than once, provided the subject matter differs.]

### GENS 4990 (6.00 CR)
### HONOURS THESIS

This course comprises independent research and study under the direction of a supervisor approved by the department. (Format: Independent Study/Thesis) [Note 1: Permission of the Department is required.]

### GENS 4991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENS 4991 more than once, provided the subject matter differs.]

## GENV COURSES

### GENV 1201 (3.00 CR)
### THE HUMAN ENVIRONMENT

This course is an introduction to the study of the human population and the spatial dimensions of environmental change. It examines how people interact with the environment and the core forces which shape these interactions, including population, culture, technology, and geography. (Format: Lecture 3 Hours)(Exclusion: GEOG 1201)

### GENV 1991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENV 1991 more than once, provided the subject matter differs.]

### GENV 2001 (3.00 CR)
### CONTEMPORARY ENVIRONMENTAL STUDIES

This course reviews how different disciplines are brought to bear on the study of environmental issues. Some of the topics considered in this survey include the role of environmental philosophy and activism, interactions between science and environmental politics, environmental or ecological economics, and sustainable development. (Format: Lecture 3 Hours)(Exclusion: ENST 1001)

### GENV 2101 (3.00 CR)
### NATURAL RESOURCES MANAGEMENT

This course introduces key concepts and issues in natural resources management. It examines resource sectors of importance to the Canadian economy, including forestry, fisheries, wildlife, energy, mining, water, and agriculture. The course emphasizes understanding the varied influences that environmental, socio-economic, and political factors have on patterns of resource utilization and resource management decision-making. (Format: Lecture 3 Hours)(Exclusion: GEOG 2101)

### GENV 2201 (3.00 CR)
### GEOGRAPHY OF ECONOMIC ACTIVITY

This course examines the changing spatial organization of the world industrial map since 1945 by comparing British and North American de-industrialization with the rapid growth of some sectors of newly industrialized countries, including the effects of new production technology, changes in industrial organization and transnational corporations and new regional trading blocs on those changing patterns are discussed. (Format: Lecture 3 Hours)(Exclusion: GEOG 2201)

### GENV 2221 (3.00 CR)
### THE DEVELOPING WORLD

This course surveys the changing geography of the developing world. It examines the decline in traditional land systems and resource use, surveys current economic development strategies, and reviews the role of international aid and non-governmental organizations in these strategies. (Format: Lecture 3 Hours)(Exclusion: GEOG 2201)

### GENV 2811 (3.00 CR)
### URBAN SOCIAL GEOGRAPHY

This course introduces the central concepts in urban geography by considering the historical and contemporary role of cities in the global landscape. It also investigates the shifting attitudes towards city life and city dwellers from the Industrial Revolution to the present day with an emphasis on social issues in the post-industrial city. Throughout this examination it emphasizes the place and development of Canadian cities. (Format: Lecture 3 Hours) (Exclusion: GENV 3811)

### GENV 2991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENV 2991 more than once, provided the subject matter differs.]

### GENV 3101 (3.00 CR)
### ENVIRONMENT AND DEVELOPMENT

**Prereq:** 3 credits from GENV 2001, 2101; GENV 2221; or permission of the Department

This course examines current thinking on the relationship between environment and development. Topics may include: sustainable development, rural land use change, tropical deforestation and forest management, indigenous environmental knowledge, and community-based conservation. (Format: Lecture 3 Hours)(Exclusion: GEOG 3101)

### GENV 3111 (3.00 CR)
### GENDER, RACE, AND ENVIRONMENTAL JUSTICE

**Prereq:** 3 credits from GENV 1201, 2001; or permission of the Department

This course examines the ways in which environmental inequalities such as exposure to pollution, health risks, and lack of access to clean air, water, and food reflect, sustain, and reproduce gendered and racial inequalities. Focusing primarily on Canada, this course investigates the ways that Feminist, Indigenous, and Anti-racist Movements inform the concept of environmental justice and contemporary environmental movements. (Format: Seminar 3 Hours) (Exclusion: GENV 3991 Gender, Race, and Environmental Justice)

### GENV 3201 (3.00 CR)
### CANADIAN ENVIRONMENTAL POLICY

**Prereq:** GENV 2001; 3 credits from GENV 2221, ECON 1001; or permission of the Department

This course studies the politics and policies of environmental problem-solving within the Canadian context. It examines key features of the Canadian political system - its parlimentary structure, robust federalism among others - in light of the nation's evolving environmental policy. It pays particular attention to the role of stakeholder dynamics and alternative regulatory tools and strategies (e.g., pollution taxes, best available technology, etc.). (Format: Lecture 3 Hours)(Exclusion: GEOG 3201)

### GENV 3211 (3.00 CR)
### TRANSPORTATION GEOGRAPHY

**Prereq:** GENV 1201; GENV 2201; or permission of the Department

This course investigates the impact of changing transport and communication technologies on spatial organization. Topics may include: the transportation-infrastructure problem and proposed solutions from a geographic perspective; an analysis of the land use-transportation system in North American cities; its social and environmental impacts; the analysis of travel behaviour; and the geographical implications of various policy and planning alternatives. (Format: Lecture 3 Hours)(Exclusion: GEOG 3211)

### GENV 3321 (3.00 CR)
### GEOGRAPHY OF JAPAN

**Prereq:** Third-year standing; 3 credits from GENV 1201, HIST 1611; or permission of the Department

This course examines Japan's geography since 1860, emphasizing the importance of international trade and new technologies and their roles in forming new geographic relationships for Japan with other parts of East Asia and with the West. (Format: Lecture 3 Hours)(Exclusion: GEOG 3321)

### GENV 3511 (3.00 CR)
### RURAL AND SMALL TOWN CANADA

**Prereq:** GENV 1201; 3 credits from GENV 2101, 2201, or permission of the Department

This course examines land use patterns as well as the environmental, social, economic and political structures of Canadian rural areas and small towns. It uses an integrated approach to resolving rural and small town development issues. (Format: Lecture 3 Hours)(Exclusion: GEOG 3511)

### GENV 3531 (3.00 CR)
### THE PLANNING PROCESS

**Prereq:** GENV 1201; 3 credits from GENV 2101, 2201, or permission of the Department

This course examines community responses to the necessity and challenge of growth. Discussion focuses on the contributions of planning to the process of development and to the outcomes and opportunities which parallel this process. (Format: Lecture 3 Hours)(Exclusion: GEOG 3531)

### GENV 3701 (3.00 CR)
### RESEARCH METHODS IN HUMAN GEOGRAPHY AND ENVIRONMENT

**Prereq:** Third-year standing; GENS 2431; permission of the Department

This course presents a critical examination of current research techniques. Students design, implement, complete and evaluate a field research project in Human Geography and Environment. [Note 1: This course requires attendance at an off-campus field camp and students must cover some field trip costs.](Format: Lecture 3 Hours, Multi-Day Field Camp)(Exclusion: GEOG 3701)

### GENV 3801 (3.00 CR)
### PLACE MATTERS

**Prereq:** Third-year standing; GENV 1201; or permission of the Department

This course addresses the importance of 'place' in the development of human interactions with the environment. It examines the principles of place geography, including ecological and bioregional perspectives on the Sackville and Tantramar region; place-conscious learning and sustainability; place-making and local geographies; and the local community as a place for experiential learning. (Format: Seminar 3 Hours)(Exclusion: GENV 2991 Place Matters; GENV 4951 Place Geography)

### GENV 3831 (3.00 CR)
### GEOGRAPHY OF GLOBAL CITIES

**Prereq:** GENV 2811; 3 credits from GENV 2201, 2221; or permission of Department

This course explores the rise in importance of global cities in the era of economic globalization. As command centres of the global economy, global cities serve as hubs of technology, knowledge, finance, culture, immigration, and tourism. It examines the differing roles of cities in the global north and global south with particular attention to issues of employment, environment, and inequality. (Format: Lecture 3 Hours) (Exclusion: GENV 4821)

### GENV 3991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENV 3991 more than once, provided the subject matter differs.]

### GENV 4101 (3.00 CR)
### SEMINAR IN ENVIRONMENTAL ISSUES

**Prereq:** GENV 1201; GENV 2001; GENS 1401; or permission of the Department

This course examines the current state of scientific knowledge related to various contemporary environmental issues and the public policy implications of these issues. (Format: Seminar 3 Hours)(Exclusion: GEOG 4101)

### GENV 4111 (3.00 CR)
### INTERNATIONAL ENVIRONMENTAL AFFAIRS

**Prereq:** GENV 3201; or permission of the Department

This course explores international environmental problems and their solutions. It examines climate change, biodiversity, conservation, international marine pollution, and the relationship between trade and environment, among other topics, giving particular consideration to the roles of science, civil society, and international governance. (Format: Lecture/Seminar 3 Hours)(Exclusion: GEOG 4101)

### GENV 4121 (3.00 CR)
### EDUCATION FOR SUSTAINABLE DEVELOPMENT

**Prereq:** Third-year standing; GENV 1201; GENV 2001; or permission of the Department

This course explores geographic and environmental education encompassing formal, informal, and traditional ideas and practices and the ways in which these may be integrated in planning for a sustainable society. It takes a critical approach to environmental education with an emphasis on developing and practicing sustainable perspectives on how people learn about, think about, and manage their affairs within the natural environment. (Format: Lecture 3 Hours)(Exclusion: GENV 4951 Environmental Education; GENV 4951 Geographical and Environmental Education; GENV 4951 Geographical Education; GENV 4951 Sustainable Education)

### GENV 4201 (3.00 CR)
### CANADIAN ENVIRONMENTAL PLANNING AND MANAGEMENT

**Prereq:** GENV 3201; or permission of the Department

This course examines the theory, methods, regulatory frameworks and social implications of Environmental Impact Assessment (EIA), providing a basis for deciding whether and how to proceed with a proposed resource development project so as to prevent or minimize environmental degradation. Students consider the overall Canadian environmental planning and management process with an emphasis on recent Canadian case studies. (Format: Lecture/Seminar 3 Hours)(Exclusion: GEOG 4101)

### GENV 4211 (3.00 CR)
### RESOURCE COMMUNITIES AND THE MULTINATIONAL CORPORATION

**Prereq:** GENV 2101; GENV 2201; or permission of the Department

This course explores the economic geography of resource industries with a focus on the role that large corporations play in shaping the fortunes of communities where they operate. Its conceptual themes include staples theory, industrial restructuring, the 'greening' (or greenwashing) of economic activity, and the use and abuse of environmental science by corporate interests. These issues are grounded in examinations of regional resource sectors, including forestry and fishing, as well as international case studies. (Format: Seminar 3 Hours)

### GENV 4521 (3.00 CR)
### SEMINAR IN COMMUNITY PLANNING RESEARCH

**Prereq:** GENS 2431; GENV 3531; or permission of the Department

This course applies community planning theory and techniques to an actual case developed in concert with a local community. Students clarify client objectives, develop a research and analysis program, conduct fieldwork, analyze data, prepare recommendations, and present results to the client. (Format: Seminar 3 Hours)(Exclusion: GEOG 4101)

### GENV 4701 (3.00 CR)
### ADVANCED FIELD COURSE

**Prereq:** 3 credits from GENV 3701, GENS 3401; or permission of the Department

This is an extended field course to be completed outside the September-May academic year in which students complete a supervised original research project at an off-campus location. [Note 1: This course is cross-listed as GENS 4701 and may therefore count as 3 credits in either discipline.](Format: Field Course)(Exclusion: GEOG 4701)

### GENV 4811 (3.00 CR)
### GENDER, CULTURE AND THE CITY

**Prereq:** GENV 2811; or permission of the Department

This course examines the relationship between socially constructed gender relations and the nature and form of urban areas. Students consider how social and cultural categories and historical processes shape the production of urban space, and how we in turn are shaped by it. (Format: Lecture 3 Hours)(Exclusion: GEOG 4811)

### GENV 4821 (3.00 CR)
### SEMINAR IN URBAN ISSUES

**Prereq:** GENV 2201; GENV 2811; GENV3211; or permission of the Department

This course explores a selected contemporary urban issue focusing in any given year on topics such as the political geography of the Canadian urban movement, the urban dynamics of key world cities,cities in the developing world, and cities and the 'new' economy. (Format: Seminar 3 Hours)(Exclusion: GEOG 4821)

### GENV 4831 (3.00 CR)
### GEOGRAPHY OF GLOBAL CITIES

**Prereq:** GENV 2811; and 3 credits from GENV 2201, 2221; or permission of Department

This course explores the rise in importance of global cities in the era of economic globalization. As command centres of the global economy, global cities serve as hubs of technology, knowledge, finance, culture, immigration, and tourism. It examines the differing roles of cities in the global north and global south with particular attention to issues of employment, environment, and inequality. (Format: Lecture 3 Hours)(Exclusion GENV 4821)

### GENV 4950 (6.00 CR)
### INDEPENDENT STUDY IN GEOGRAPHY AND ENVIRONMENT

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GENV 4950/51 more than once, provided the subject matter differs.]

### GENV 4951 (3.00 CR)
### INDEPENDENT STUDY IN GEOGRAPHY AND ENVIRONMENT

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GENV 4950/51 more than once, provided the subject matter differs.]

### GENV 4990 (6.00 CR)
### HONOURS THESIS

This course comprises independent research and study under the direction of a supervisor approved by the Department. (Format: Independent Study/Thesis) [Note 1: Permission of the Department is required.]

### GENV 4991 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENV 4991 more than once, provided the subject matter differs.]

### GENV 4993 (3.00 CR)
### SPECIAL TOPIC IN GEOGRAPHY AND ENVIRONMENT

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GENV 4991 more than once, provided the subject matter differs.]

## GERMAN STUDIES

See Modern Languages and Literatures

## GREEK

See Classical Studies

## HISPANIC STUDIES

See Modern Languages and Literatures

# HISTORY

History is an ideal instrument of liberal education. It develops analytical and communication skills and also fosters knowledge and understanding of the institutions, ideas, groups, and individuals which have shaped the political, social, and cultural world of humankind. Though historical study encourages critical thinking, it also engenders a sensitive understanding of the past, avoiding what one historian has called "the condescension of posterity" (E. P. Thompson, Making of the English Working Class, 1963 preface). As another historian reminds us, "the past is not some remote and abstract catalogue of names and dates, but the very fabric of individual [and social] identity" (J.C.D. Clark, Our Shadowed Present, introduction).

Though it is impossible to study all significant past peoples, events, and cultures, the Mount Allison History Department offers a rich variety of both subject matter and interpretive approach through individualized programs designed to achieve both coherence and depth. Courses are regularly available at all levels in most major periods of Canadian, American, European, and Asian history. Here one can study the human experience in all its rich diversity: class and gender, wealth and poverty, faith and science, self and social identity, government and politics, and war and peace.

The skills and rigor which the study of history imparts make it excellent preparation for many career paths: teaching, law, public administration, and politics, to name a few. More than this, with its breadth and depth, it contributes to responsible global citizenship in a free and humane world.

## BASIC COURSES

The Humanities 1600 series is intended to provide an introduction to Humanities disciplines. These three-credit courses offered by the participating disciplines of Classics, History, Philosophy and Religious Studies are designed to acquaint beginning students with the methodologies typical of these disciplines and to familiarize them with the approaches taken, as well as the sorts of themes pursued and questions raised in these disciplines.

Students will normally take courses in sequential order from first through fourth years. Further information about specific courses, faculty members and special programs is available in the Department of History Handbook. Students should also be familiar with the university requirements for the B.A. degree, outlined in section 11.2 of the academic calendar.

## Disciplinary B.A. Programs

### MINOR in History is 24 credits earned as follows:

6 from the Humanities 1600 Series
18 from History above the 1600 level, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor

### MAJOR in History is 60 credits earned as follows:

6 from the Humanities 1600 Series
12 6 each chosen from two of the following subject areas:

Note: The courses in each subject area are paired

1. European History 2001 and 2011; or 2031 and 2041
2. North American History 2411 and 2421; or 2511 and 2521
3. Asia Pacific History 2721 or 2741; and 2731

21 from History at the 2/3/4000 level. At least 15 of these must be at the 3/4000 level
3 from History at the 4000 level
18 from complementary courses in Arts and Letters, Humanities, and Social Sciences, chosen in consultation with the Program Advisor. The department recommends strongly that 6 of these credits be selected from introductory courses in a single language offered by the Department of Modern Languages and Literatures or the Classics Department: FREN 1651, 1701, 1711 (as determined by placement); GERM 1001 and GERM 1011; JAPA 1001 and JAPA 1011; SPAN 1101 and SPAN 1111; GREK 1001 and GREK 1101; or LATI 1001 and LATI 1101. (Students may substitute intermediate or advanced language courses according to placement by the Department of Modern Languages and Literatures or the Classics Department or courses in another language taken by transfer approved by the History Department).

### HONOURS in History (Thesis Option) is 72 credits earned as follows:

39 from the first three lines of the major, plus:
6 from language courses in a single language other than English. Students may select from the following introductory courses offered by the Department of Modern Languages and Literatures or the Classics Department: FREN 1651, 1701, 1711 (as determined by placement); GERM 1001 and GERM 1011; JAPA 1001 and JAPA 1011; SPAN 1101 and 1111; GREK 1001 and GREK 1101; or LATI 1001 and LATI 1101. (Students may substitute intermediate or advanced language courses according to placement by the Department of Modern Languages and Literatures or the Classics Department or courses in another language taken by transfer approved by the History Department).
15 from History at the 3/4000 level
6 from HIST 4990
6 from History at the 4000 level, chosen in consultation with the Program Advisor

### HONOURS in History (Course Option) is 72 credits earned as follows:

39 from the first three lines of the major, plus:
6 from language courses in a single language other than English. Students may select from the following introductory courses offered by the Department of Modern Languages and Literatures or the Classics Department: FREN 1651, 1701, 1711 (as determined by placement); GERM 1001 and GERM 1011; JAPA 1001 and JAPA 1011; SPAN 1101 and 1111; GREK 1001 and GREK 1101; or LATI 1001 and LATI 1101. (Students may substitute intermediate or advanced language courses according to placement by the Department of Modern Languages and Literatures or the Classics Department or courses in another language taken by transfer approved by the History Department).
15 from History at the 3/4000 level
12 from History at the 4000 level, chosen in consultation with the Program Advisor

## HISTORY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### HIST 1601 (3.00 CR)
### NEW NATIONS IN NORTH AMERICA

This course examines themes in North American history from the sixteenth century to the 1860s, with a particular emphasis on the interaction of aboriginal, European, and West African peoples and on the formation of the new states. (Format: Lecture 3 Hours)

### HIST 1611 (3.00 CR)
### THE EXPANSION OF EUROPE ABROAD

This course focuses on the expansion of Europe after the fifteenth century and the impact of that expansion on both Native peoples and on European civilization. Themes include the creation of a world economy, racial relations, the rise and fall of European power, the impact of technology, the growth of indigenous nationalism,and the legacy of European expansion. (Format: Lecture 3 Hours)

### HIST 1621 (3.00 CR)
### CANADIAN SOCIAL HISTORY: HOME, WORK AND PLAY

This course examines people's lives in Canada from 1840 to the present. It combines economic structures and social experiences to document the domestic space of the home and the industrial workplace, as well as public sites of leisure and recreation, and the semi-public spaces of commerce and institutions. (Format: Lecture/Tutorial 3 Hours)

### HIST 1631 (3.00 CR)
### GREECE AND ROME: THE FOUNDATIONS OF WESTERN CIVILIZATION

The political and social history of ancient Greece and Rome will be surveyed with a focus on the themes of Law, Politics, War, and Society. Special attention will be paid to Athens in the fifth and fourth centuries B.C.E. and to Rome under Caesar Augustus. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as CLAS 1631 and may therefore count as 3 credits in either discipline.]

### HIST 1641 (3.00 CR)
### TOWN LIFE IN THE MIDDLE AGES

This course treats the development of town life in Europe from the late tenth century through the fifteenth century. Themes include: social and political experimentation and organization, expansion of commerce and production, religious observance and intellectual life, and female experience of town life. (Format: Lecture 3 Hours)

### HIST 1661 (3.00 CR)
### FRANCE IN THE AGE OF REVOLUTION

This course examines the social, cultural, economic, and political forces that combined to produce the French Revolution. An emphasis will be placed on primary sources in reconstructing revolutionary experience. Themes include: society in the ancien régime, the Enlightenment, revolutionary political experimentation, war, women and revolution, and the Terror. (Format: Lecture/Tutorial 3 Hours)(Exclusion: HIST 3371)

### HIST 1671 (3.00 CR)
### HISTORICAL PERSPECTIVES ON WOMEN AND GENDER IN MODERN EUROPE

This course surveys women's lives in modern Europe from the Enlightenment until the twentieth century creation of the European Union. (Format: Lecture/Tutorial 3 Hours)(Exclusion: HIST 3361)

### HIST 1681 (3.00 CR)
### THE USES AND ABUSES OF HISTORY

This course explores the processes by which people build arguments and make decisions based, in part, on a particular understanding of the past. By a series of case studies and grounded in the practice of evidence-based reasoning it demonstrates how history is a fundamental tool in many forms of decision-making and, therefore, why history matters. (Format: Lecture 3 Hours)(Exclusion: HIST 1991 The Uses and Abuses of History)

### HIST 1691 (3.00 CR)
### AMERICAN SOCIAL MOVEMENTS IN THE 60S

This course examines the United States during the 1960s, focusing on the Civil Rights, Counter Culture, and Student and Anti-war Movements. (Format: Lecture 3 Hours)(Exclusion: HIST 1991 American Social Movements in the 60s)

### HIST 1991 (3.00 CR)
### SPECIAL TOPIC IN HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for HIST 1991 more than once, provided the subject matter differs.]

### HIST 2001 (3.00 CR)
### EUROPE DURING THE MEDIAEVAL ERA

This course surveys the history of mediaeval civilization from c.300 to c.1300. By investigating the changing ways the peoples of western Eurasia organized their political, social, and economic relationships and pursued, and frequently contested, ideals of learning, sacredness, and beauty, it provides an introduction to the methods historians use to construe the past, giving particular attention to the close reading and interpretation of contemporary documents. (Format: Lecture 3 Hours) (Exclusion: HIST 2000; any version of HIST 2001 previously offered with a different title)

### HIST 2011 (3.00 CR)
### EUROPE DURING THE RENAISSANCE AND REFORMATION

This course continues HIST 2001, surveying with the same objectives the history of civilization among the peoples of western Eurasia from c.1300 to c.1600. It provides an introduction to the methods historians use to construe the past and training in the close reading and interpretation of contemporary documents. (Format: Lecture 3 Hours)(Exclusion: HIST 2000; any version of HIST 2011 previously offered with a different title)

### HIST 2021 (3.00 CR)
### ALEXANDER THE GREAT AND THE HELLENISTIC WORLD

An examination of the career of Alexander the Great and the Hellenistic era that followed his conquest of the eastern Mediterranean. Among the main themes included will be the goals of Alexander, the new political climate of kingship and patronage that he helped create, the interaction of the Greeks with the civilizations of Egypt and the East, and the integration of new cultural ideas into Greek society. [Note 1: This course is cross-listed as CLAS 2021 and may therefore count as 3 credits in either discipline.](Format: Lecture 3 Hours)(Exclusion: HIST/CLAS 3011)

### HIST 2031 (3.00 CR)
### THE HISTORY OF EARLY MODERN EUROPE, 1500-1800

This course surveys the history of Early Modern Europe between 1500 and 1800. It examines the social, cultural, economic, and political developments from the period of the Reformation to the Napoleonic era. Themes include: religious conflict, rural life, capital accumulation, the Enlightenment, absolutism, imperial expansion, war, and revolution. There is an emphasis on the study of history through an introduction to the methods, theories, and concepts that historians use to represent and interpret the past. (Format: Lecture 3 Hours)(Exclusion: HIST 2010, HIST 2500)

### HIST 2041 (3.00 CR)
### EUROPE IN THE NINETEENTH CENTURY

This course provides a comprehensive survey of the'long nineteenth century' from 1789 to 1914. Themes include: revolution, war, intellectual and artistic developments, national unification, social conflict, and imperial rivalry and expansion. There is an emphasis on thinking about history through an examination of theoretical approaches and the interpretation of primary sources. (Format: Lecture/Tutorial 3 Hours)(Exclusion: HIST 2010, HIST 2500)

### HIST 2051 (3.00 CR)
### WOMEN IN ANTIQUITY

Using written and material evidence, this course will explore the economic, social and political roles of women in the societies of ancient Greece and Rome, as well as the development of the Western idea of the female in antiquity. Secondarily, it will introduce and explore the social theories commonly applied to the study of gender in history. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as CLAS 2051 and may therefore count as 3 credits in either discipline.]

### HIST 2411 (3.00 CR)
### CANADA TO 1871

This course introduces students to the political, socio-economic, and cultural history of Canada from the pre-European period to the first federal census. (Format: Lecture 3 Hours)(Exclusion: HIST 2410, 3100, 3250)

### HIST 2421 (3.00 CR)
### CANADA AFTER 1871

This course examines the socio-economic, political, and cultural life of Canada from the time of the first federal census in 1871 to the present. (Format: Lecture 3 Hours)(Exclusion: HIST 2410, 3100, 3250)

### HIST 2511 (3.00 CR)
### THE AMERICAN EXPERIENCE TO 1865

This course introduces students to the main events, themes and issues of American history from the colonial period through the Civil War. (Format: Lecture 3 Hours)(Exclusion: HIST 2510, 3650)

### HIST 2521 (3.00 CR)
### THE AMERICAN EXPERIENCE AFTER 1865

**Prereq:** HIST 2511; or permission of the Department

This course introduces students to the main events, themes and issues of American history from the Civil War to the present. (Format: Lecture 3 Hours)(Exclusion: HIST 2510, 3650)

### HIST 2731 (3.00 CR)
### ASIA IN WORLD HISTORY

This survey course focuses on the historical events and processes that led to the formation of modern Asia since the nineteenth century. Central to this story are the ways in which the peoples of this diverse region have struggled to understand, adapt to, and simultaneously re-define their understanding of what it means to be modern. (Format: Lecture/Tutorial, 3 Hours)(Exclusion: HIST 2700; any version of HIST 2731 previously offered with a different title)

### HIST 2741 (3.00 CR)
### ASIA, THE WORLD, AND BIG HISTORY

This course introduces the concept 'Big History', the history of the universe since the beginning of time, to place the human experience in the broadest possible context. Moving from the big to the small, the course explores general patterns of human history such as migration and exchange, ending with a survey of historical trends in Asia over the past two thousand years. (Format: Lecture/Tutorial, 3 Hours)(Exclusion: HIST 2721)

### HIST 2991 (3.00 CR)
### SPECIAL TOPIC IN HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for HIST 2991 more than once, provided the subject matter differs.]

### HIST 3001 (3.00 CR)
### DEMOCRACY AND IMPERIALISM IN CLASSICAL GREECE

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of archaic and classical Greek history and civilization from the emergence of the polis to the fall of the Athenian empire. Main themes include the development of political institutions, warfare, and gender relations. Emphasis is placed on historical methods and the interpretation of ancient evidence. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as CLAS 3001 and may therefore count for three credits in either discipline.]

### HIST 3021 (3.00 CR)
### CONQUEST AND EXPANSION: THE RISE AND FALL OF THE ROMAN REPUBLIC

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of the development of Rome from a small city-state into the leading power in the Mediterranean. Main themes include the conflict between Rome and Carthage, the conquest of the Hellenistic East, and the political and social changes in Roman society. There will be an emphasis on the analysis and interpretation of primary sources in translation. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as CLAS 3021 and may therefore count for three credits in either discipline.]

### HIST 3031 (3.00 CR)
### THE ROMAN EMPIRE: CENTRE AND PERIPHERY

**Prereq:** Second-year standing; 3 credits from CLAS, HIST at the 1/2000 level; or permission of the Department

An examination of the history of imperial Rome from the age of Augustus to that of Constantine. Main themes include the imperial form of government, the Roman army, urban development and its impact on society, and the conflicts between Romans and other cultures. There will be an emphasis on the analysis and interpretation of primary sources in translation. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as CLAS 3031 and may therefore count for three credits in either discipline.]

### HIST 3051 (3.00 CR)
### HEALTH AND MEDICINE IN THE ANCIENT WORLD

**Prereq:** Second-year standing; 3 credits from CLAS, HIST, PHIL; or permission of the Department

Employing both material and literary evidence, this course surveys the conditions of life and common ailments and treatments of the inhabitants of the Greek and Roman world from ca. 1000 BC.E. to ca. 500 C.E.. It also examines the origins of Western medicine in Greek and Roman science, alongside its alternatives, such as magic. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as CLAS 3051 and may therefore count as 3 credits in either discipline.]

### HIST 3121 (3.00 CR)
### THE RENAISSANCE IN ITALY AND BEYOND

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2011 recommended; or permission of the Department

This course treats the remarkable cultural flowering that began during the mid-thirteenth century in the politically and socially volatile city-states of northern Italy before spreading during the fifteenth century to the courts, city halls, print-shops, monasteries, and schools of northern Europe. (Format: Lecture 3 Hours)(Exclusion: HIST 3110; any version of HIST 3121 previously offered with a different title)

### HIST 3141 (3.00 CR)
### EARLY MEDIAEVAL EUROPE

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2001 recommended; or permission of the Department

This course treats the history of Europe from the disintegration of Roman imperial authority in the fifth century to the collapse of the Carolingian empire in the course of the ninth and early tenth centuries. Themes include: the establishment of Germanic 'successor' kingdoms, development of the papacy, missionary activities to Christianize pagan peoples, and the reigns of Charlemagne and his descendants. (Format: Lecture 3 Hours)(Exclusion: HIST 3050; HIST 3141 Celtic and Germanic Europe to the Age of Charlemagne)

### HIST 3151 (3.00 CR)
### EUROPE IN THE HIGH MIDDLE AGES

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2001 recommended; or permission of the Department

This course treats the history of Europe from the tenth through the mid-fourteenth centuries. Themes include: success and failure in the development of national monarchies, the growth of papal authority and prestige, new forms of religious expression and practice, university life and scholarship, and the calamities of the fourteenth century. (Format: Lecture 3 Hours)(Exclusion: HIST 3050; HIST 3151 Europe in the Age of Chivalry)

### HIST 3161 (3.00 CR)
### THE CRUSADES

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2001 recommended; or permission of the Department

This course treats the European crusading movement from the eleventh through the fifteenth centuries, examining not only familiar expeditions to Palestine but also the use of crusades to sanction conquest and colonization along mediaeval European frontiers in Spain and northeastern Europe and to combat religious and political challenges to papal authority. (Format: Lecture 3 Hours)

### HIST 3211 (3.00 CR)
### REVOLUTION AND STABILITY: POLITICS AND SOCIETY IN EARLY MODERN BRITAIN 1603-1820

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; 3 credits from HIST 1601, 2011, 2031 recommended; or permission of the Department

This course explores the ideological and socio-economic roots of the seventeenth century constitutional struggles that established the sovereignty of Parliament in Stuart Britain and traces the re-establishment of social and political stability from the Glorious Revolution through the Hanoverian Period. (Format: Lecture 3 Hours)(Exclusion: HIST 3400)

### HIST 3221 (3.00 CR)
### MODERN BRITAIN

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; 3 credits from HIST 2041, 3211, 3251 recommended; or permission of the Department

This course traces the development of those institutions, movements, and ideas that are an integral part of the texture of modern Britain, and that have been shaping influences on the direction and pace of social, intellectual, economic, and political growth. (Format: Lecture 3 Hours)

### HIST 3231 (3.00 CR)
### PAX BRITANNICA: BRITAIN'S GLOBAL HEGEMONY, 1650-1885

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; 3 credits from HIST 1601, 1611, 2031 recommended; or permission of the Department

This course examines Britain's rise to world power from the mid-seventeenth to the late nineteenth century with special reference to foreign policy, naval supremacy, international economic influence and the acquisition of empire, together with its impact on both governors and governed. (Format: Lecture 3 Hours)(Exclusion: Any version of HIST 3231 previously offered with a different title)

### HIST 3241 (3.00 CR)
### IMPERIAL SUNSET: BRITAIN'S RETREAT FROM WORLD POWER 1885 TO THE PRESENT

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; 3 credits from HIST 2041, 2721, 2731, 3231 recommended; or permission of the Department

This course analyses Britain's decline as a world power, its replacement in that role by the United States, its relations with the emerging nation states of the Third World and its uneasy participation in the European Community. Topics include: interwar development policies for Africa, Indian nationalism, World War II and the decolonization of Asia and Africa, the 'special relationship' with the USA, the evolution of the European Community and continued underdevelopment in the Third World. (Format: Lecture 3 Hours)(Exclusion: Any version of HIST 3241 previously offered with a different title)

### HIST 3251 (3.00 CR)
### CLASS, GENDER, AND CAPITALISM: THE TRANSFORMATION OF THE BRITISH SOCIAL STRUCTURE 1750-1850

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; or permission of the Department

This course traces the decline of the aristocracy, the triumph of the middle classes, and the making of the working class in Britain during the early stages of capitalism and industrialization. The course also examines gender relations and analyses the notion of 'separate spheres'. Particular attention is paid to the controversies among historians surrounding the nature of social transformation in Britain. (Format: Lecture 3 Hours)(Exclusion: HIST 3400; any version of HIST 3251 previously offered with a different title)

### HIST 3301 (3.00 CR)
### EUROPE IN THE TWENTIETH CENTURY, 1900-1945

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2041 recommended; or permission of the Department

This course examines the major political, social, cultural and economic developments in Europe from the beginning of the century to the end of World War II. (Format: Lecture 3 Hours)(Exclusion: HIST 3390)

### HIST 3311 (3.00 CR)
### EUROPE SINCE 1945

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2041 recommended; or permission of the Department

This course examines the major political, social, cultural and economic developments in Europe from the post-war era of reconstruction to the foundation of the European Union. (Format: Lecture 3 Hours)(Exclusion: HIST 3390)

### HIST 3321 (3.00 CR)
### WAR AND SOCIETY IN EUROPE FROM THE LATE MIDDLE AGES TO NAPOLEON (1400-1815)

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; 3 credits from HIST 1611, 1661, 2011, 2031, 3161 recommended; or permission of the Department

This course examines the interrelationship between war and society from the late mediaeval period until the Congress of Vienna, which ended the Napoleonic Wars. Topics include: the gunpowder revolution, the rise of states, power and the pursuit of wealth, revolution and war, the social effects of warfare, transformations in strategy and tactics, and the changing justifications for war. (Format: Lecture 3 Hours)(Exclusion: HIST 3600, 3380)

### HIST 3331 (3.00 CR)
### WAR AND SOCIETY IN EUROPE FROM NAPOLEON TO NUREMBERG (1815-1945)

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; 3 credits from HIST 1661, 2041, 3301, 3321 recommended; or permission of the Department

This course examines the interrelationship between war and society from the Congress of Vienna, which ended the Napoleonic Wars, to the conclusion of the Second World War. Topics include: technology and war; the military implications of industrial competition; nationalism, state-building, and warfare; the First World War; and the Second World War and its immediate aftermath. In addition to the social effects of war, the course also examines peacemaking and changing ethical views towards warfare. (Format: Lecture 3 Hours)(Exclusion: HIST 3600, 3380)

### HIST 3361 (3.00 CR)
### CULTURE AND SOCIETY IN MODERN EUROPE

**Prereq:** 6 credits from HIST at the 2000 level; 3 credits from HIST 2031, 2041 recommended; or permission of the Department

This course examines major themes and issues in Continental European social and cultural history from the seventeenth century to the present. Topics include: identity formation; class and gender; community and nation; family, work and leisure; myth and memory; popular and high culture; and the emergence of mass consumer society. (Format: Lecture 3 Hours)(Exclusion: HIST 3360)

### HIST 3381 (3.00 CR)
### FASCISM IN EUROPE 1890-1945

**Prereq:** 6 credits from HIST at the 2000 level; HIST 2041 recommended; or permission of the Department

This course undertakes a comparative analysis of the origins, theory and nature of fascism in France, Italy and Germany from about 1890 to 1945.(Format: Lecture 3 Hours)

### HIST 3401 (3.00 CR)
### THE ATLANTIC REGION

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; or permission of the Department

This course surveys the political, socio-economic, cultural, and environmental history of Canada's Atlantic region from the eighteenth century to the 1990s. (Format: Lecture 3 Hours)(Exclusion: HIST 3420, 3451, any version of HIST 3401 previously offered with a different title)

### HIST 3411 (3.00 CR)
### NEW FRANCE

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; or permission of the Department

This course examines the expansion of the French empire in North America with particular emphasis on Aboriginal peoples prior to and following European contact and the socio-economic and cultural life of the French colonies. (Format: Lecture/Tutorial 3 Hours)(Exclusion: Any version of HIST 3411 previously offered with a different title)

### HIST 3431 (3.00 CR)
### QUEBEC FROM CONFEDERATION TO THE SOVEREIGNTY MOVEMENT

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; or permission of the Department

This course examines the political, religious, economic, and cultural development of Quebec since Confederation with particular emphasis on the growth of nationalism and the emergence of the sovereignty movement. (Format: Lecture/Tutorial 3 Hours)(Exclusion: Any version of HIST 3431 previously offered with a differed title)

### HIST 3441 (3.00 CR)
### MODERN CANADA

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; or permission of the Department

This course traces the development of political movements and ideas that are an integral part of the texture of modern Canada and that have been shaping influences on the direction and pace of social, intellectual, and economic life. (Format: Lecture/Tutorial 3 Hours)

### HIST 3461 (3.00 CR)
### CANADA AND ASIA

**Prereq:** Third-year standing; or permission of the Department

This course examines Canada's relationship with the peoples and nations of Asia through four inter-related themes: immigration, missionary activity, diplomacy and foreign policy, and trade. It pays particular attention to East and South Asia and how interactions with these regions have affected contemporary Canadian society. (Format: Lecture/Tutorial 3 Hours)

### HIST 3471 (3.00 CR)
### CANADIAN WOMEN IN HISTORICAL PERSPECTIVE

**Prereq:** 3 credits from HIST 1601, 1621, 1671, 2031, 2411, 2421; 3 credits from HIST at the 1/2000 level; or permission of the Department

This course draws upon both historical and theoretical perspectives to examine the diverse experiences, conditions and roles of women in Canada from Pre-confederation to the late twentieth century. (Format: Lecture 3 Hours)

### HIST 3481 (3.00 CR)
### RELIGION IN CANADA

**Prereq:** 3 credits from HIST 1601, HIST 1621, HIST 2411, HIST 2421, HIST 2011, HIST 2031, RELG 2801, RELG 2831; 3 credits from HIST, RELG at the 1/2000 level; or permission of the Department

This course surveys the history of religion in Canada from the pre-European period to the 1980s. It focuses on religious traditions that developed or were established early in Canadian history - aboriginal, Christian, and Jewish - but others are also included. The content includes both traditional topics such as influential individuals, writings, and institutions in relation to the state and public life, as well as themes from the newer socio-cultural history of religion. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as RELG 3481 and may therefore count as 3 credits in either discipline.]

### HIST 3491 (3.00 CR)
### IMMIGRATION IN CANADIAN HISTORY

**Prereq:** Second-year standing; 6 credits from HIST; or permission of the Department

This course explores the history of immigration to the lands which became Canada, from the seventeenth to the twentieth centuries, and in the context of world migration history. In addition to gender and class, key themes will include the impact of immigration on host societies, the changing roles of institutions and the state with regard to immigrants and refugees, and the construction of identities based on ethnicity or nationality. (Format: Lecture 3 Hours)

### HIST 3511 (3.00 CR)
### COLONIAL AMERICA IN AN ATLANTIC WORLD

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; or permission of the Department

This course examines the history of British North America from the early Contact period to the end of the American Revolution and the Loyalist migrations. It focuses on the mainland colonies, with attention to the wider context of the Atlantic world. (Format: Lecture 3 Hours)(Exclusion: HIST 3550; any version of HIST 3511 previously offered with a different title)

### HIST 3531 (3.00 CR)
### AMERICAN WOMEN'S HISTORY

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; or permission of the Department

This course explores theoretical approaches to women's history through an examination of the role and experience of women in the United States from the Revolution to the present. (Format: Lecture 3 Hours)

### HIST 3541 (3.00 CR)
### CHALLENGES TO AMERICAN MODERNITY: THE UNITED STATES DURING THE 1920S AND 1930S

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; or permission of the Department

This course examines selected crises and challenges that shaped American public life during the 1920s and 1930s: the "first generation gap"; the Second Ku Klux Klan and other ultra-conservative reactions to modernity; aspects of popular culture, especially music; the Dust Bowl; the Great Depression and responses it evoked; and the development of industrial unionism. (Format: Lecture 3 Hours)(Exclusion: HIST 3520; HIST 3521; HIST 3991A-US during the 20s and 30s if taken in Winter 2011 or Winter 2012)

### HIST 3611 (3.00 CR)
### CHRISTIANITY IN ROMAN EMPIRE

**Prereq:** 3 credits from RELG 2801, 2821, 3601; 3 credits from RELG 1600 series; or third or fourth year History Major; or permission of the Department

This course examines the crucial, defining crises of the ancient Christian communities in the social, political, and cultural context of Late Antiquity (roughly, 2nd to 6th centuries CE/AD). It analyzes early Christianity as a social movement, as a religious movement with a developing belief system, and as an historical phenomenon embedded within historical events and processes. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as RELG 3611 and may therefore count as three credits in either discipline.]

### HIST 3621 (3.00 CR)
### THE CONSTRUCTION OF CHRISTENDOM: THE HISTORY OF CHRISTIANITY DURING THE MEDIAEVAL ERA

**Prereq:** 3 credits from HIST 2001, HIST 2011, RELG 2801, RELG 2821, RELG 2831, RELG 2841; 3 credits from HIST, RELG at the 2000 level; or permission of the Department

This course traces the history of Christianity, emphasizing the Roman communion, from the fifth to the mid-fifteenth century. It investigates the development of the institutional church; the evolution of forms of devotional observance, manifested in art and architecture, literature, and the liturgy; and the varied expressions of criticism and dissent aimed at the doctrinal teaching and conduct of clergy. [Note 1: This course is cross-listed as RELG 3621 and may therefore count as three credits in either discipline.](Format: Lecture 3 Hours)(Exclusion: HIST/RELG 3620; any version of HIST 3621 previously offered with a different title)

### HIST 3631 (3.00 CR)
### THE FRACTURING OF CHRISTENDOM: THE REFORMATION ERA

**Prereq:** 3 credits from HIST 2001, HIST 2011, HIST 2031, RELG 2801, RELG 2821, RELG 2831, RELG 2841; 3 credits from HIST, RELG at the 2000 level; or permission of the Department

This course treats the history of Christianity during the fifteenth and sixteenth centuries, an era when the unity of mediaeval western Christendom was driven by series of reformations; Protestant, Radical, and Catholic. It investigates the ecclesiastical, intellectual, political, and social circumstances and consequences of dramatic religious change. [Note 1: This course is cross-listed as RELG 3631 and may therefore count as three credits in either discipline.](Format: Lecture 3 Hours) (Exclusion: HIST 3131)

### HIST 3721 (3.00 CR)
### THE CONFUCIAN WORLD

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; 3 credits from HIST 2721, 2731 recommended; or permission of the Department

This course examines the various schools of Confucianism that have dominated the philosophy, social relations, and political economy of China, Japan, Korea, and Vietnam for thousands of years. It analyzes these relationships from the twelfth-century emergence of Neo-Confucianism until the collapse of the Qing dynasty 700 years later. It pays particular attention to the Confucian legacy in the modern, industrialized states of East Asia. (Format: Lecture 3 Hours)

### HIST 3761 (3.00 CR)
### JAPAN AND THE MAKING OF MODERN ASIA

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; 3 credits from HIST 2721, 2731 recomended; or permission of the Department

This course examines the modern history of Asia, centering on Japan and its interactions with China, Korea, and the Euro-American powers. It considers particularly how the peoples of this region initiated and responded to radical social, political, and economic change. (Format: Lecture 3 Hours)(Exclusion: HIST/POLS 3731, HIST 3751; any version of HIST 3761 previously offered with a different title)

### HIST 3801 (3.00 CR)
### BIRTH TO DEATH: LIFE COURSE AND FAMILY HISTORY

**Prereq:** Second-year standing; 6 credits from HIST; or permission of the Department

This course explores the cultural and demographic history of individuals, families, and stages of the life course, from infancy to the experience of death and dying. Life course and family history thus overlaps with gender history, the history of medicine, and legal history and includes topics such as sexuality and sexual orientation, education, or old age. The focus is on North America from the seventeenth to the twentieth centuries, but the course also draws comparisons to Western European patterns, and is situated in the context of world population history. (Format: Lecture 3 Hours)

### HIST 3811 (3.00 CR)
### CANADIAN WORKING-CLASS AND LABOUR HISTORY

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; or permission of the Department

This course focuses on everyday working-class resistance manifested through labour organizations and political movements. (Format: Lecture/Tutorial 3 Hours)

### HIST 3901 (3.00 CR)
### HISTORICAL RESEARCH AND WRITING METHODS

**Prereq:** Second-year standing; 6 credits from HIST at the 2000 level; or permission of the Department

This course focuses on the essential methods of historical research and writing. (Format: Lectures/Tutorial 3 Hours)

### HIST 3991 (3.00 CR)
### SPECIAL TOPIC IN HISTORY

**Prereq:** Second-year standing; 6 credits from HIST at the 1/2000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for HIST 3991 more than once, provided the subject matter differs.]

### HIST 4001 (3.00 CR)
### HISTORY THROUGH FILM
**Prereq:** Third-year standing; 12 credits from HIST at the 2/3000 level; or permission of the Department

This course provides thematic study of topics in modern history through the medium of film, both feature and documentary. It reads the films critically both as art forms and as historical documents. It places particular emphasis on what films tell us about the particular historical context in which they were created. (Format: Seminar 3 Hours)[Note 1: This course may count as 3 credits in Art History.]

### HIST 4101 (3.00 CR)
### ADVANCED TOPICS IN EARLY MEDIAEVAL HISTORY
**Prereq:** Third-year standing; HIST 3141; 3 credits from HIST 3121, HIST 3151, HIST 3161, HIST 3611, HIST 3621, HIST 3631, RELG 3611, RELG 3621, RELG 3631; or permission of the Department

This course examines European history, ca. 300 to ca. 1100. (Format: Seminar 3 Hours)(Exclusion: HIST 4110)

### HIST 4111 (3.00 CR)
### ADVANCED TOPICS IN LATE MEDIAEVAL HISTORY
**Prereq:** Third-year standing; HIST 3151; 3 credits from HIST 3121, HIST 3141, HIST 3161, HIST 3611, HIST 3621, HIST 3631, RELG 3611, RELG 3621, RELG 3631; or permission of the Department

This course examines European history, ca. 1100 to ca. 1500. (Format: Seminar 3 Hours)(Exclusion: HIST 4110)

### HIST 4221 (3.00 CR)
### ADVANCED TOPICS IN RENAISSANCE HISTORY
**Prereq:** Third-year standing; HIST 3121; 3 credits from HIST 3141, HIST 3151, HIST 3161, HIST 3611, HIST 3621, HIST 3631, RELG 3611, RELG 3621, RELG 3631; or permission of the Department

This course is a seminar in Renaissance history. (Format: Seminar 3 Hours)(Exclusion: HIST 4220)

### HIST 4231 (3.00 CR)
### ADVANCED TOPICS IN REFORMATION HISTORY
**Prereq:** Third-year standing; 3 credits from HIST 3121, HIST 3141, HIST 3151, HIST 3161, HIST 3611, HIST 3621, HIST 3631, RELG 3611, RELG 3621, RELG 3631; or permission of the Department

This course is a seminar in Reformation history. (Format: Seminar 3 Hours)(Exclusion: HIST 4220)

### HIST 4241 (3.00 CR)
### BRITAIN, 1603-1815
**Prereq:** Third-year standing; 3 credits from HIST 3211, 3221, 3231, 3241, 3251; or permission of the Department

This course examines revolution and stability in the seventeenth century, the expansion of trade and finance in the eighteenth century, and the frequent presence of war throughout the early Modern period. Major themes include religious controversy, social change, state building, economic expansion, and the conduct of war and diplomacy. (Format: Seminar 3 Hours)

### HIST 4251 (3.00 CR)
### BRITISH IMPERIAL HISTORY, 1600- PRESENT
**Prereq:** Third-year standing; 3 credits from HIST 3211, 3221, 3231, 3241, 3251; or permission of the Department

This course treats certain key themes in British imperial history: British identity, the nature and exercise of British power, the economics of empire, the ideology of imperialism, the development of colonial nationalism, and the experience of war. It traces these themes through the various geographical components of empire: India, Africa, the Americas, and the antipodes, to invite fruitful comparison of different imperial experiences over time and place. These prompt questions whether the British Empire was the product of purposeful development or of makeshift improvisation. (Format: Seminar 3 Hours)

### HIST 4261 (3.00 CR)
### NINETEENTH-CENTURY BRITISH HISTORY
**Prereq:** Third-year standing; 3 credits from HIST 3211, 3221, 3231, 3241, 3251; or permission of the Department

This course explores the following topics, among others: liberalism, economic growth, political reform, Victorianism, class and gender relations, religious and cultural issues, and Britain in the world. (Format: Seminar 3 Hours)

### HIST 4271 (3.00 CR)
### TWENTIETH-CENTURY BRITISH HISTORY
**Prereq:** Third-year standing; 6 credits from HIST 3211, HIST 3221, HIST 3231, HIST 3241, HIST 3251, POLS 3200; or permission of the Department

This course examines Britain's domestic history as well as its imperial and international relations from 1900 to the present. (Format: Seminar 3 Hours)(Exclusion: HIST 4600; HIST 4250)

### HIST 4300 (6.00 CR)
### THE BIRTH OF THE MODERN AGE
**Prereq:** Third-year standing; 6 credits from HIST 3301, 3311, 3361, 3371, 3381; or permission of the Department

This senior seminar explores some of the profound social, cultural, political and economic changes that transformed European life during the late nineteenth and early twentieth centuries. Topics vary from year to year. (Format: Seminar 3 Hours)

### HIST 4321 (3.00 CR)
### TOPICS IN ENVIRONMENTAL HISTORY
**Prereq:** Third-year standing; 6 credits from HIST at the 3000 level; or permission of the Department

This seminar examines selected topics of environmental history with a focus on Europe from the fifteenth century to the present. (Format: Seminar 3 Hours)

### HIST 4411 (3.00 CR)
### CANADIAN URBAN HISTORY
**Prereq:** Third-year standing; 6 credits from HIST at the 3000 level; or permission of the Department

This seminar considers selected topics of urban history with a focus on Canadian cities from the nineteenth century to the present. (Format: Seminar 3 Hours)

### HIST 4420 (6.00 CR)
### THE ATLANTIC PROVINCES

**Prereq:** Third-year standing; 6 credits from HIST 2411, 2421, 3401, 3411, 3431, 3441, 3481, 3491, 3511, 3801, 3811; or permission of the Department

This seminar considers key topics or themes in the history of Atlantic Canada from the pre-Contact period to the late twentieth century. Students also explore the concepts, methods, and sources used in this history, and how these and changing philosophies or theories of history have influenced the way scholars and others have researched and written about the past. (Format: Seminar 3 Hours)(Exclusion: HIST 4100)

### HIST 4441 (3.00 CR)
### MODERN CANADIAN HISTORY

**Prereq:** Third-year standing; 6 credits from HIST 2411, HIST 2421, HIST 3441, HIST 3491, HIST 3801, HIST 3811, CANA 3301, CANA 3400; or permission of the Department

This course investigates selected topics in Modern Canadian History from the nineteenth century to the present. (Format: Seminar 3 Hours)(Exclusion: HIST 4440)

### HIST 4461 (3.00 CR)
### ADVANCED SEMINAR ON MODERN CANADIAN WOMEN'S HISTORY

**Prereq:** Third-year standing; 6 credits from HIST, CANA at the 3000 level; or permission of the Department

This course focuses on Canadian women's activism in social and political movements - from suffrage in the late nineteenth century until the second-wave of feminist protest in the 1960's. (Format: Seminar 3 Hours)(Exclusion: HIST 4951 Canadian Women's History)

### HIST 4510 (6.00 CR)
### THE AMERICAN WEST

**Prereq:** Third-year standing; 6 credits from HIST 2511, 2521, 3501, 3511, 3521, 3531, 3561; or permission of the Department

This course examines the history of the American West during the nineteenth and twentieth centuries. It juxtaposes the real West to the mythic West and emphasizes the importance of each in American society and culture. (Format: Seminar 3 Hours)

### HIST 4571 (3.00 CR)
### HISTORY OF THE MODERN AMERICAN WOMEN'S MOVEMENT

**Prereq:** Third-year standing; HIST 3531; or permission of the Department

This course focuses on the history of the modern American women's movement, beginning with a brief examination of the history of feminism in the pre-World War II United States and continuing through to an examination of responses and backlashes to the women's movement. Emphasis is given to the revolutionary character of that movement and the experience of American women as influenced by the movement. (Format: Seminar 3 Hours)

### HIST 4701 (3.00 CR)
### ASIA IN WAR AND REVOLUTION

**Prereq:** Third-year standing; 9 credits from HIST at the 3000 level; or permission of the Department

This seminar examines the impact of war and revolution on the cultures, economies, and systems of governance in modern Asia. Particular attention is also paid to the relationship between war and remembrance and the ways in which memories of war have been constructed and mobilized for political and ideological purposes. (Format: Seminar 3 Hours)

### HIST 4901 (3.00 CR)
### HISTORICAL PERSPECTIVES AND ARCHIVAL RESEARCH METHODS

**Prereq:** Third-year standing; 6 credits in History at the 3000 level; or permission of the Department

Drawing upon appropriate historical perspectives, this course focuses on the development of a research project using archival research methods and training in historical methodologies. (Format: Seminar 3 Hours)

### HIST 4911 (3.00 CR)
### WRITING HISTORY

**Prereq:** Third-year standing; 9 credits from HIST at the 3000 level; or permission of the Department

This seminar provides students the opportunity to critically engage the major works of history throughout the ages from a comparative and interdisciplinary perspective. In addition to examining the ideas and theories that have animated the writing of history, students will also evaluate the importance and relevance of history to our contemporary world, its relationship to the past, and its utility as a guide to present and future action. Content varies depending on the instructor. (Format: Seminar 3 Hours)

### HIST 4950 (6.00 CR)
### INDEPENDENT STUDY IN HISTORY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for HIST 4950/51 more than once, provided the subject matter differs.]

### HIST 4951 (3.00 CR)
### INDEPENDENT STUDY IN HISTORY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for HIST 4950/51 more than once, provided the subject matter differs.]

### HIST 4990 (6.00 CR)
### HONOURS THESIS

Independent research and study under direction of a member of the department; for students in History Honours program. (Format: Independent Study/Thesis) [Note 1: Consent of supervising staff member prior to registration and permission of the Program Advisor is required.]

### HIST 4991 (3.00 CR)
### SPECIAL TOPIC IN HISTORY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for HIST 4991 more than once, provided the subject matter differs.]

# INTERNATIONAL ECONOMICS AND BUSINESS

## Interdisciplinary B.A. Program

### MINOR in International Economics/Business is 24 credits earned as follows:

12 from ECON 1001 and 1011, 3 credits in Computer Science or Mathematics (not including MATH 1011), COMM 2201

12 from Economics 3501, 3901, 3921, 4531, 4551, Commerce 2211, 3211, 3251, chosen in consultation with the Program Advisor

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

## INTERNATIONAL RELATIONS

See Politics and International Relations

## JAPANESE STUDIES

See Modern Languages and Literatures

## LATIN

See Classical Studies

## LINGUISTICS

See Modern Languages and Literatures

# MATHEMATICS

Mathematics is a discipline which has been said to be the Queen of the Sciences, and is the foundation of most modern quantitative and qualitative studies. The permanence and universality of mathematics throughout the ages is a consequence of its very nature. Mathematics is cumulative, developing from the earliest use of numbers by prehistoric civilizations to the highly deductive nature of geometry as developed by the Greeks, from the practical applications of calculus developed in the seventeenth century to the modern use of number theory in computer cryptography. Mathematics has many faces, from practical uses of its statistical tools to theoretical studies of abstract relationships. Our goal is to introduce students to all facets of the discipline, and to give them an appreciation of the historical, theoretical and applied nature of the discipline, as well as a full understanding of the beauty of the subject.

The Department offers a broad variety of courses and programs in Mathematics. Beginning courses may introduce students to the applications to which Calculus may be applied or the practical uses of statistics; more advanced courses deal with topics ranging from geometry to game theory. All courses in the Mathematics curriculum offer a blend of theory and practical applications. Many of the courses offered include a substantial computational component, and students are encouraged to use the mathematical software tools available. Courses are designed to address the needs of a wide variety of users, from the casual to the professional. Some students may enrol in a course to familiarize themselves with university level mathematics, while others will take a series of courses related directly to their chosen study area. Those choosing to pursue a minor or major in mathematics will be exposed to more advanced courses which blend Mathematical theory and practice.

Mount Allison has been very successful in placing many of its students in graduate programs in Mathematics, while many others have found employment after graduation in one of many fields for which mathematical understanding is an asset. Teaching, actuarial work, law and medicine are all areas requiring the ability to think and reason logically and for which a mathematical background can prove beneficial.

## Disciplinary B.A. and B.Sc. Programs

### B.A. or B.Sc. MINOR in Mathematics is 24 credits earned as follows:

6 from MATH 1111, 1121
12 from MATH 2111, 2121, 2211, 2221, 2311, 2321.
6 from Mathematics at the 3/4000 level.

### B.A. MAJOR in Mathematics is 60 credits earned as follows:

15 from MATH 1111, 1121, 2111, 2211, 2221
3 from MATH 2121, 2311
3 from MATH 3111, 3141, 3161
3 from MATH 3011, 3211, 3221, 3231
3 from MATH 3151, 3311, 3411
15 from Mathematics at the 3/4000 level
3 from COMP 1631
15 credits from complementary disciplines chosen in consultation with the Program Advisor

### B.A. HONOURS in Mathematics is 72 credits earned as follows:

18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
3 from COMP 1631
21 from MATH 3011, 3111, 3121, 3161, 3211, 3221, 3311, 3411, 4221
15 from Mathematics at the 3/4000 levels
9 from Mathematics or Computer Science at the 3/4000 levels
6 from Computer Science, Economics, or Mathematics at the 2000 level or above, or from COMM 3411, LING 2001, 3001, PHIL 2611, PHIL 3631

### B.A. or B.Sc. HONOURS in Computer Science and Mathematics is 75 or 87 credits earned as follows:

18 from COMP 1631, 1731, 2211*, 2611, 2631, 2931
15 from MATH 1111, 1121, 2111, 2121, 2221
9 from MATH 3111, 3211, 3311
3 from MATH 3011, 3221, 3231, 3251, 4221
3 from Mathematics at the 3/4000 levels
3 from COMP 3361, 3971
15 from COMP 3411, 3611, 3721, 3911, 4721
9 from Computer Science or Mathematics at the 3/4000 level
9 from CHEM 1001, 1021; PHYS 1051, 1551 (only for B.Sc.)
3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011 (only for B. Sc.)

### B.Sc. MAJOR in Mathematics is 60 credits earned as follows:

18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
3 from MATH 3111, 3141, 3161
3 from MATH 3011, 3211, 3221, 3231
3 from MATH 3151, 3311, 3411
15 from Mathematics at the 3/4000 level
6 from COMP 1631, 1731
9 from CHEM 1001, 1021; PHYS 1051, 1551
3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011

### B.Sc. HONOURS in Mathematics is 78 credits earned as follows:

18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
6 from COMP 1631, 1731
21 from MATH 3011, 3111, 3121, 3161, 3211, 3221, 3311, 3411, 4221
15 from Mathematics at the 3/4000 level
6 from Mathematics or Computer Science at the 3/4000 level
9 from CHEM 1001, 1021; PHYS 1051, 1551
3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011

## Interdisciplinary B.A. Program

### B.A. HONOURS in Economics and Mathematics is 81 credits earned as follows:

21 from ECON 1001, 1011, 2001, 2011, 2101, 2111, 2701
21 from MATH 1111, 1121, 2111, 2121, 2211, 2221, 2311
3 from COMP 1631
6 from MATH 3111, 3211
12 from ECON 4700, 4801, 4811, 4821
6 from ECON at the 3/4000 levels which may include ECON 4990
12 from MATH 3011, 3121,3131, 3151, 3161, 3221, 3251, 3311, 3321, 3411, 3531, 4111, 4221. Note that MATH 4951 may also be included if the Program Co-ordinators approve its content.

## Interdisciplinary B.Sc. Program

### B.Sc. HONOURS in Mathematics and Physics is 90 credits earned as follows:

3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011
18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
3 from COMP 1631
6 from CHEM 1001, 1021
12 from PHYS 1051, 1551, 2251, 2801
3 from MATH/PHYS 3451
9 from MATH 3111, 3211, 3311
6 from MATH 3141, 3161
6 from MATH 3121, 3131, 3221, 3151, 3231, 3321, 3411, 3531, 4111, PHYS 4101, 4201, 4311, 4831, 4851, 4911; only 3 credits may be selected from the listed Physics courses
18 from PHYS 3101, 3201, 3701, 3811, 3821, 4411
6 from PHYS 4990

**Note:** Students pursuing Honours in Mathematics and Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department

### PLACEMENT IN MATHEMATICS

Students wishing to take the introductory calculus course (Mathematics 1111 or Mathematics 1151) are required to write a *Mathematics Placement Test* to determine their level of mathematical preparation.

## MATHEMATICS COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### MATH 1011 (3.00 CR)
#### FUNCTIONS

This course focuses on the real number system, inequalities, plane analytic geometry (lines and conics), functions, inverse functions, polynomials, rational functions, trigonometric functions, and exponential and logarithmic functions. It emphasizes fundamental methods of graphing functions, using non-calculus based techniques. [Note 1: This course is primarily intended for non-science students or as a prerequisite for MATH 1111 or 1151 for those students who have not passed the Mathematics Placement Test. Science students who have passed the Mathematics Placement Test require the permission of the Department of Mathematics and Computer Science to enrol in this course.Credit will not be given for this course if credit has already been granted for MATH 1111 or 1151.] (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: Any version of MATH 1011 previously offered with a different title)

#### MATH 1111 (3.00 CR)
#### CALCULUS I

This course introduces differential calculus. Topics include derivatives of algebraic, trigonometric, and exponential functions and applications such as curve sketching, related rates, and optimization problems. [Note 1: This course has a Challenge for Credit option; see Calendar Section 3.11] (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: MATH 1151; any version of MATH 1111 previously offered with a different title)

#### MATH 1121 (3.00 CR)
#### CALCULUS II

**Prereq:** MATH 1111; or permission of the Department

This course continues the introduction to calculus begun in MATH 1111. Topics include techniques of integration; applications of the integral such as finding volumes and solving elementary differential equations; and sequences and series. (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: Any version of MATH 1121 previously offered with a different title)

#### MATH 1151 (3.00 CR)
#### APPLIED CALCULUS

This course introduces differential and integral calculus with an emphasis on applications. Topics include modeling with functions, interpretation of the derivative and integral, and some computational methods. [Note 1: The course is designed for students in life sciences and Commerce who do not intend to take MATH 1121.] (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: MATH 1111)

#### MATH 1251 (3.00 CR)
#### FINITE MATHEMATICS

This course introduces common applications of finite mathematics.Topics include Markov chains, linear programming and game theory. (Format: Lecture 3 Hours)[Note 1: This course is restricted to non-mathematics majors and is intended in particular for students in behavioural sciences, commerce, and social sciences. Mathematics majors require the instructor's permission to enrol.]

### MATH 1991 (3.00 CR)
### SPECIAL TOPIC IN MATHEMATICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MATH 1991 more than once, provided the subject matter differs.]

### MATH 2111 (3.00 CR)
### MULTIVARIABLE CALCULUS

**Prereq:** MATH 1121; or permission of the Department

This course introduces the calculus of functions of several variables, including conic sections, quadric surfaces, polar co-ordinates in the plane, cylindrical and spherical co-ordinates in three space, continuity, partial derivatives, tangent planes, chain rule, maximum and minimum values, Lagrange multipliers, and double and triple integrals.(Format: Lecture 3 Hours)

### MATH 2121 (3.00 CR)
### DIFFERENTIAL EQUATIONS I

**Prereq:** MATH 1121; or permission of the Department

This course introduces first and second order differential equations. Topics include techniques for solving simple differential equations and the qualitative analysis of linear and non-linear equations. Applications include growth and decay, heating and cooling, and mixing and chemical reactions. (Format: Lecture 3 Hours) (Exclusion: Any version of MATH 2121 previously offered with a different title)

### MATH 2211 (3.00 CR)
### DISCRETE STRUCTURES

**Prereq:** 3 credits from MATH 1111, 1151; or permission of the Department

An introduction to the terminology and concepts of discrete mathematics, covering such topics as: logical arguments, proofs and algorithm verification, sets, relations, functions and cardinality of sets, induction and recursion, enumeration, algorithms and complexity. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as COMP 2211 and may therefore count as three credits in either discipline.]

### MATH 2221 (3.00 CR)
### LINEAR ALGEBRA

**Prereq:** 3 credits from MATH 1111, 1151; or permission of the Departm

An introductory course in linear algebra covering such topics as linear equations, matrices, determinants, vector spaces, linear transformations, inner products, eigenvalues, and eigenvectors. Whenever possible, concepts are given a geometric interpretation in two and three-dimensional space. (Format: Lecture 3 Hours)

### MATH 2311 (3.00 CR)
### STATISTICS I

This course is an introduction to some of the concepts and techniques of probability and statistics. Topics include descriptive statistics, elementary probability, probability distributions, statistical estimation, hypothesis testing, and the use of a statistical software package in analyzing data. Examples come from a wide variety of disciplines. (Format: Lecture 3 Hours)

### MATH 2321 (3.00 CR)
### STATISTICS II

**Prereq:** 3 credits from MATH 2311, 3311; or permission of the Department

This is a second course in the concepts and techniques of probability and statistics. The course covers a selection of topics from analysis of variance, linear and nonlinear regression, correlation estimation and prediction, independence, Wilcoxon and goodness-of-fit tests and includes data analysis using statistical software. Examples come from a wide variety of sources and disciplines. (Format: Lecture 3 Hours, Laboratory 1 Hour)

### MATH 2991 (3.00 CR)
### SPECIAL TOPIC IN MATHEMATICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MATH 2991 more than once, provided the subject matter differs.]

### MATH 3011 (3.00 CR)
### SET THEORY AND MATHEMATICAL LOGIC

**Prereq:** MATH 2211; or permission of the Department

This course provides a mathematical introduction to the basic ideas of set theory and logic. Topics covered may include: axiom of choice, cardinal and ordinal numbers, Boolean algebras and their applications, completeness, decidability, philosophies of mathematics. (Format: Lecture 3 Hours)

### MATH 3031 (3.00 CR)
### HISTORY OF MATHEMATICS

**Prereq:** 6 credits from MATH 2111, 2121, 2211, 2221; or permission of the Department

A survey of the history of Mathematics. Topics include: the achievements of early civilizations, the developments in Europe leading to the calculus and its consequences, the growth of rigor in the 18th and 19th centuries, the axiomatic method in the 20th century. (Format: Lecture 3 Hours)

### MATH 3111 (3.00 CR)
### REAL ANALYSIS I

**Prereq:** MATH 2111; MATH 2211; or permission of the Department

A systematic and rigorous study of the real numbers and functions of a real variable, emphasizing limits and continuity. (Format: Lecture 3 Hours)

### MATH 3131 (3.00 CR)
### DIFFERENTIAL EQUATIONS II

**Prereq:** MATH 2121; MATH 2111; MATH 2221; or permission of the Department

This course focuses on ordinary and partial differential equations. Topics for ordinary differential equations include existence and uniqueness of solutions, systems of differential equations, power series solutions, Laplace and Fourier transforms, and Fourier series. Topics for partial differential equations include separation of variables, generalized Fourier series, Sturm-Liouville theory, Legendre polynomials, Bessel functions, Green's functions, and the calculus of variations. (Format: Lecture 3 Hours) (Exclusion: Any version of MATH 3131 previously offered with a different title)

### MATH 3141 (3.00 CR)
### VECTOR CALCULUS

**Prereq:** MATH 2111 and either MATH 2221 or MATH/PHYS 3451; or permission of the department

This course covers the calculus of vector-valued functions and curves, vector fields, line and surface integrals, vector differential operators, and the various forms of Stokes' Theorem. It may also include the differential geometry of curves and differential forms. (Format: Lecture 3 Hours)

### MATH 3151 (3.00 CR)
### AN INTRODUCTION TO MATHEMATICAL MODELLING

**Prereq:** Third-year standing; 3 credits from Math 1111, 1151; or permission of the Department

This course introduces the nature of theoretical mathematical modelling illustrated by examples drawn from the physical sciences, population dynamics (mathematical ecology), traffic flow, sociological problems (for example voting, kinship and cultural stability) and other areas depending on the interests of the class. (Format: Lecture 3 Hours)

### MATH 3161 (3.00 CR)
### COMPLEX VARIABLES WITH APPLICATIONS

**Prereq:** MATH 2111; or permission of the Department

This course covers analytic functions, Cauchy-Riemann equations, conformal mapping, complex integrals, Cauchy's integral theorem, Taylor and Laurent Series, residues,evaluation of real integrals, and inverse transforms. (Format: Lecture 3 Hours; Exclusion MATH 4131)

### MATH 3211 (3.00 CR)
### MODERN ALGEBRA I

**Prereq:** MATH 2211; MATH 2221; or permission of the Department

An introduction to the theory of groups and rings. (Format: Lecture 3 Hours)

### MATH 3221 (3.00 CR)
### ADVANCED LINEAR ALGEBRA

**Prereq:** MATH 2221; MATH 2211 recommended; or permission of the Department

An advanced course in linear algebra, covering selected topics from: change of basis and similarity of matrices; multilinear forms and determinants; canonical forms, Primary Decomposition Theorem, Jordan form; semisimple and normal operators; spectral theory; quadratic forms; applications to geography, electrical networks, linear programming, differential equations, or the geometry of conic sections. (Format: Lecture 3 Hour)

### MATH 3231 (3.00 CR)
### NUMBER THEORY

**Prereq:** MATH 2211; or permission of the Department

An introductory half-course in the theory of numbers covering such topics as: Euclidean algorithm, Fundamental Theorem of Arithmetic, congruences, diophantine equations, Fermat and Wilson Theorems, quadratic residues, continued fractions, Prime number theorem. (Format: Lecture 3 Hours)

### MATH 3251 (3.00 CR)
### GRAPH THEORY

**Prereq:** MATH 2211; or permission of the Department

This course introduces terminology, techniques, and applications of graph theory and examines parameters for a variety of classes of graphs. Topics include trees, planarity, colouring, matchings, and network flow problems. (Format: Lecture 3 Hours)(Exclusion: Any version of MATH 3251 previously offered with a different title.)

### MATH 3301 (3.00 CR)
### INTRODUCTION TO GAME THEORY

**Prereq:** 6 credits from ECON 1001, 1011; or 3 credits from MATH 1111, 1151; or permission of the Department

This course introduces the basic tools and methods of Game Theory. Game Theory is a mathematically oriented approach to understanding the strategic interaction of self-interested agents. Emphasis is on non-cooperative games. Topics include backwards induction, iterative deletion of dominated strategies, Nash equilibrium, repeated games, some equilibrium refinements, evolutionary game theory, and Bayesian Nash equilibria. (Format: Lecture 3 Hours, Laboratory 1 Hour) [Note 1: This course is cross-listed as ECON 3301 and therefore may count as 3 credits in either discipline.]

### MATH 3311 (3.00 CR)
### PROBABILITY AND STATISTICS I

**Prereq:** MATH 2111; or permission of the Department

This course focuses on the mathematical theory of probability. It includes topics such as: sample space, events, axioms, conditional probability, Bayes' Theorem, random variables, combinatorial probability, moment generating functions, transformations of random variables, univariate and jont distributions with reference to the binomial, hypergeometric, normal, Gamma, Poisson, and others; convergence of sequences of variables; and the Central Limit Theorem. (Format: Lecture 3 Hours)

### MATH 3321 (3.00 CR)
### PROBABILITY AND STATISTICS II

**Prereq:** MATH 3311; or permission of the Department

This course focuses on mathematical statistics. It includes topics such as: estimation, unbiasedness, efficiency, Cramer-Rao lower bound, consistency, sufficiency, maximum likelihood estimators, hypothesis testing, power of tests, likelihood ratio, regression analysis and analysis of variance. (Format: Lecture 3 Hours)

### MATH 3411 (3.00 CR)
### NUMERICAL ANALYSIS

**Prereq:** MATH 1121; 3 credits from COMP; or permission of the Department

This course introduces numerical methods for solving a variety of problems in mathematics, the natural sciences, and engineering and the implementation of numerical methods on a computer. Topics include numerical stability, polynomial approximation and interpolation, integration and solution of differential equations, solution of linear and nonlinear systems of equations, and matrix factorization. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as COMP 3411 and may therefore count as three credits in either discipline.]

### MATH 3451 (3.00 CR)
### METHODS OF MATHEMATICAL PHYSICS

**Prereq:** MATH 2111; 3 credits from MATH 2121, PHYS 2251; or permission of the Department

This course provides students with a selection of mathematical skills needed in more advanced physics courses. It introduces frequently utilized mathematical methods in theoretical physics in close connection with physics applications. Topics include vector and tensor analysis, use of special functions, operators and eigenvalue problems, Fourier analysis, and complex variable techniques. (Format: Lecture 3 Hours, Laboratory 3 Hours)[Note 1: This course is cross listed as PHYS 3451 and may therefore count as three credits in either discipline.]

### MATH 3531 (3.00 CR)
### SIMULATION AND MODELLING

**Prereq:** MATH 1111; 3 credits from MATH 2311, MATH 3311, PSYC 2001, PSYC 2011; 3 credits from COMP; or permission of the Department

An introduction to the simulation technique for studying mathematical models. Specific titles include: systems theory and system models, continuous system simulation, discrete system simulation, Monte Carlo methods, random number generators, and simulation languages. Emphasis will be placed upon computer implementation of the methods studied. (Format: Lecture 3 Hours) [Note 1: This course is cross listed as COMP 3531 and may therefore count as three credits in either discipline.]

### MATH 3991 (3.00 CR)
### SPECIAL TOPIC IN MATHEMATICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MATH 3991 more than once, provided the subject matter differs.]

### MATH 4111 (3.00 CR)
### TOPOLOGY

**Prereq:** MATH 3111; or permission of the Department

This course introduces metric and topological spaces, convergence, and continuous functions. (Format: Lecture 3 Hours)

### MATH 4121 (3.00 CR)
### REAL ANALYSIS II

**Prereq:** MATH 3111; or permission of the Department

This course continues the study of analysis begun in MATH 3111 and includes a rigorous study of the Riemann and Lebesgue integrals based on formal definitions and proofs. (Format: Lecture 3 Hours; Exclusion: MATH 3121)

### MATH 4221 (3.00 CR)
### MODERN ALGEBRA II

**Prereq:** MATH 3211; or permission of the Department

The classical theory of fields and rings and their applications. (Format: Lecture 3 Hours)

### MATH 4631 (3.00 CR)
### THEORY OF COMPUTATION

**Prereq:** COMP/MATH 2211; COMP 1731; or permission of the Department

This course is an introduction to theoretical aspects of Computer Science such as formal language and automata theory and complexity theory. (Format: Lecture 3 Hours) [Note 1: This course is cross listed as COMP 4631 and may therefore count as three credits in either discipline.]

### MATH 4651 (3.00 CR)
### CRYPTOGRAPHY

**Prereq:** COMP 1731; COMP/MATH 2211; MATH 2221; or permission of the Department

This course is an introduction to cryptographic algorithms and to the cryptanalysis of these algorithms, with an emphasis on the fundamental principles of information security. Topics include: classical cryptosystems, modern block and stream ciphers, public-key ciphers, digital signatures, hash functions, key distribution and agreement. (Format: Lecture 3 Hours) [Note 1: This course is cross listed as COMP 4651 and may therefore count as three credits in either discipline.]

### MATH 4951 (3.00 CR)
### INDEPENDENT STUDY IN MATHEMATICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for MATH 4950/51 more than once, provided the subject matter differs.]

### MATH 4991 (3.00 CR)
### SPECIAL TOPIC IN MATHEMATICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MATH 4991 more than once, provided the subject matter differs.]

# MODERN LANGUAGES AND LITERATURES

Courses offered by the Department of Modern Languages and Literatures include French, German, Spanish, Japanese and Linguistics. Linguistics, and most culture courses are offered in English. Students can also benefit from our study-abroad programs in France, Germany, Spain and Japan. The courses offered in each of these disciplines, as well as the Majors, Minors and Honours programs available, are outlined under each discipline heading. An interdisciplinary Major and Honours in Modern Languages, Literatures and Cultures are also offered, as outlined in this section.

Students who plan to specialize in one or more languages by electing a Minor, Major, or Honours program should declare their specialization to the Registrar's Office by the end of their first year of University studies. They should also visit the program advisor in the Department of Modern Languages and Literatures before registering for second year, since most programs require the advisor's approval of optional courses.

## PLACEMENT

Beginning language courses (GERM 1001, SPAN 1101, and JAPA 1001) are designed for students who either have never studied the language previously or have had minimal experience with the language. All students with high school, post-secondary, or non-academic exposure to these languages must consult with the program advisor for that language about placement and may be asked to write a diagnostic placement test if the level of competence in the language cannot be readily established. The results of the consultation and testing will be used to place the students in the proper course level.

Placement of students in their first French course will be decided on the basis of a French Language Skills Assessment given by the Department. All students who have not studied French at Mount Allison previously must complete this assessment before registering for a course in French. The Skills Assessment is available on-line through the Department of Modern Languages and Literatures web site. Alternatively, a paper copy may be obtained by mail or fax from the Secretary of the Department of Modern Languages and Literatures. Students completing Majors, Minors, or Honours programs in French should be aware that any exemptions from 1/2000 level courses obtained through the placement process must be replaced on their programs by credits in French at the 3000-4000 levels.

For all language courses offered in the Department, if within the first seven class hours it becomes apparent that the initial placement was inappropriate, the student or the instructor may request a meeting with the Department Head to discuss the appropriateness of the student moving to a higher or lower level.

**Note:** No student can receive credit for a language course which is a prerequisite for a course for which they have already received credit by placement or by previous course work.

## FRENCH STUDIES

Mount Allison offers an extensive French Studies program, within the Department of Modern Languages and Literatures, with a variety of language, literature and culture courses which increase the students' awareness of the French and French-Canadian identities while developing their ability to function in the second language. To this end, all language and literature courses are taught in French.

The courses at the first and second year levels provide the opportunity to establish a sound foundation in oral and written French. The study of grammar at these levels is reinforced by practice in the language laboratory or tutorial groups. Several of the courses at the 3000 and 4000 levels are specifically intended to refine the students' command of spoken and written French, while the other courses deal with the various areas of French and French-Canadian literatures and cultures as well as the theories of literary criticism. A series of prizes are awarded each year to students who distinguish themselves in French Studies.

The Department sponsors other programs and activities which support and enrich the course program:

- Le Cercle français
- Guest speakers
- Tintamarre, a bilingual theatrical troupe
- La Maison française (a French-language residence)
- Study Abroad Program at Université de Strasbourg, France
- Certificate of Bilingualism (see Section H under Degrees and Certificates)

## Language of Instruction and Assignments

Most courses in the French curriculum are generally delivered in French alone, and all assignments, both oral and written, are to be completed in French. FREN 2801 (Cinéma du monde francophone), however, offers students the option of completing written work in English. The following culture courses are delivered in English alone: FREN 1801, FREN 1811, FREN 2841.

## Minimum standard in French for certain courses

While there is no course prerequisite for FREN 2801, there is a minimum standard of competency in French required for admission to the course. Anyone wishing to register in FREN 2801 must complete a French Skills Assessment at (see previous section on Placement) and demonstrate a knowledge of French equivalent to completion of FREN 1711 (placement in FREN 2401). In the case of FREN 3841 permission of the Department in lieu of the normal prerequisite (FREN 2601) will be granted only to advanced students in other disciplines who demonstrate a knowledge of French equivalent to completion of FREN 2501, i.e. placement in a 3000 or 4000 language class.

## Disciplinary B.A. Programs

**Important note** for advanced students: anyone who has completed French 2401 or who has been placed in FREN 2501 is encouraged to enrol in FREN 2501 and 2601 concurrently.

### MINOR in French is 24 credits earned as follows:

| | |
|---|---|
| 0 to 6 | FREN 1701, 1711, if required by placement |
| 9 | FREN 2401, 2501, 2601 |
| 3 | FREN 3101 |
| 6 to 12 | from French courses at the 3/4000 level |

**Note:** FREN 2801 may only be included in the requirements for a minor if FREN 1701 and FREN 1711 are not required by placement. If an exemption is granted from any of the language courses, replacement credits must be obtained in other French courses at the 3/4000 level.

### MAJOR in French is 60 credits earned as follows:

| | |
|---|---|
| 9 | from FREN 2401, 2501, 2601 |
| 3 | from FREN 1801, 1811, 2801 or 2841 |
| 12 | from FREN 3101, 3111, 3131, 4001, 4011 |
| 3 | from FREN 3301, 3401, 3411 |
| 3 | from FREN 3501, 3511, 3601, 3611, 3621 |
| 3 | from FREN 3721, 3731, 3741 |
| 3 | from FREN 3801, 3811, 3821, 3841, 3851, 3861 |
| 6 | from French literature at the 3000/4000 levels not already chosen |
| 18 | from complementary courses in French; Modern Languages, Literatures or Cultures; Linguistics; Arts & Letters and/or Humanities, including FREN 1701 and 1711, if required by placement, FREN 1801, 1811, 2801 and 2841; HIST 1661 is especially recommended |

**Note:** All complementary courses from disciplines outside the Department of Modern Languages and Literatures (with the exception of HIST 1661) must be chosen in consultation with the Program Advisor prior to enrolment in them.

### HONOURS in French (Thesis Option) is 69 credits earned as follows:

| | |
|---|---|
| 6 | from FREN 1801, 1811, 2801, 2841 |
| 9 | FREN 2401, 2501, 2601 |
| 15 | from FREN 3101, 3111, 3131, 4001, 4011 |
| 6 | from FREN 3301, 3401 or 3411 |
| 3 | from FREN 3501 or 3511 |
| 3 | from FREN 3601 or 3611 or 3621 |
| 3 | from FREN 3721, 3731, 3741 |
| 3 | FREN 3801 |
| 3 | from FREN 3811, 3821, 3841, 3851, 3861 |
| 6 | from French literature at the 3000/4000 levels not already chosen |
| 6 | FREN 4990 (Mémoire) |
| 6 | from French at the 3/4000 level and Linguistics, chosen in consultation with the Program Advisor |

### HONOURS in French (Course Option) is 69 credits earned as follows:

| | |
|---|---|
| 51 | credits as in the first 9 lines of the Honours degree (Thesis Option) |
| 12 | additional credits from French literature at the 3000/4000 levels |
| 6 | from French at the 3/4000 level and Linguistics, chosen in consultation with the Program Advisor |

**Note:** An interdisciplinary Major and Honours in Modern Languages, Literatures and Cultures (French, German, Spanish and Japanese), are also available.

## FRENCH COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### FREN 1001 (3.00 CR)
### ELEMENTARY FRENCH I

This course is intended for students with little or no background in French. Its objective is to help students develop some proficiency in each of the four skill areas: listening, speaking, reading, and writing. It will take a traditional approach with an emphasis on elementary grammar, forms of words and systematic vocabulary building. Each class will make use of the grammar studied to practice all four skill groups through individual and group activities. [Note 1: This course is offered in the Spring/Summer term only. It is not available in the day sessions during the Fall and Winter terms.] (Format: Lecture/Workshop 3 Hours) (Exclusion: FREN 1100; FREN 2100)

### FREN 1011 (3.00 CR)
### ELEMENTARY FRENCH II

**Prereq:** FREN 1001

This course is a continuation of FREN 1001 and will use the same methods and approach; it will focus on building more familiarity with the grammar, forms and syntax of basic French. [Note 1: This course is offered in the Spring/Summer term only. It is not available in the day sessions during the Fall and Winter terms.] (Format: Lecture/Workshop, 3 Hours) (Exclusion: FREN 1100; FREN 2100)

### FREN 1651 (3.00 CR)
### PREPARATORY FRENCH / FRANÇAIS PRÉPARATOIRE

This one-term French grammar course - designed for non-francophones who did not complete High School French - is an intensive review of basic grammatical structures with a particular emphasis on verb conjugation, pronouns, adjectives and syntax. Three class periods per week plus a fourth hour to be arranged after classes have begun. Instruction will be in French. [Note 1: Placement by the Department is required. A minimum standard of achievement on the French Skills Assessment is required. Note 2: Students completing FREN 1651 may continue into FREN 1701.] (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: FREN 1600)

### FREN 1701 (3.00 CR)
### INTERMEDIATE FRENCH I / FRANÇAIS INTERMÉDIAIRE I

**Prereq:** FREN 1651; or placement by the Department

This course is an intensive approach to the development of communication skills through the integration of grammar study, writing practice, and oral exercises. Analysis and discussion of readings reinforce the study of written and oral language. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: FREN 1700)

### FREN 1711 (3.00 CR)
### INTERMEDIATE FRENCH II / FRANÇAIS INTERMÉDIAIRE II

**Prereq:** FREN 1701; or placement by the Department

The continuation of French 1701, this course pursues the development of communication skills through the integration of grammar study, writing practice, and oral exercises. Analysis and discussion of readings reinforce the study of written and oral language. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: FREN 1700)

### FREN 1801 (3.00 CR)
### PARIS, CITY OF LIGHT

This course is designed to introduce students, through a series of literary and cultural snapshots, to elements which define the essence of Paris. Using multimedia presentations of the Parisian cultural landscape and a broadly interdisciplinary perspective, lectures explore the development of a vibrant and unique urban centre which has always been a magnet for creative minds and cultural fervour. Drawings, engravings, paintings, maps, texts, songs and film will be used to investigate what is perceived as the singularity, timelessness and seductive appeal of Paris. (Format: Lecture 3 Hours) [Note 1: Language of instruction is English.]

### FREN 1811 (3.00 CR)
### CULTURAL ASPECTS OF MODERN QUEBEC

Consideration of some of the issues and debates that help us to understand modern and contemporary Quebec, its history, society and culture, its specificity and its diversity, its changing nature and its place in the modern world. (Format: Lecture 3 Hours) [Note 1: Language of instruction is English.]

### FREN 1991 (3.00 CR)
### SPECIAL TOPIC IN FRENCH

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FREN 1991 more than once, provided the subject matter differs.]

### FREN 2401 (3.00 CR)
### READING AND WRITING FRENCH I / LANGUE ET LECTURES I

**Prereq:** FREN 1711; or placement by the Department

This course requires that students already have a good command of the fundamental aspects of French in both its spoken and written forms. Its objectives are: to improve expression through the study and practice of appropriate sentence structures, such as sequence of past tenses, pronouns as complements, relative clauses, subordinate constructions requiring the subjunctive; to improve reading and analytical skills by examining and discussing texts that raise important and controversial issues; to practice oral expression. Three class periods per week, plus a fourth hour to be arranged after classes have begun. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: Any version of FREN 2401 previously offered with a different title)

### FREN 2501 (3.00 CR)
### READING AND WRITING FRENCH II / LANGUE ET LECTURES II

**Prereq:** FREN 2401; or placement by the Department

This course is the continuation of FREN 2401. Its objectives are to further develop reading strategies, to build vocabulary, to continue to improve the formulation of complex sentences by using a variety of co-ordinating/subordinating conjunctions. It also provides practice in writing longer compositions with emphasis on compositional techniques such as outline, structure, and transitions. [Note 1: Students planning to minor or major in French are encouraged to take FREN 2501 and FREN 2601 concurrently. When FREN 2501 and 2601 are taken concurrently, a C- in both courses is required for entry into 3000-level French literature and culture courses.] (Format: Lecture 3 Hours, Tutorial 1 Hour) (Exclusion: Any version of FREN 2501 previously offered with a different title)

### FREN 2601 (3.00 CR)
### FUNDAMENTALS OF LITERARY ANALYSIS / INITIATION À L'ANALYSE LITTÉRAIRE

**Prereq or Coreq:** FREN 2501; or permission of the Department

This course continues the studies begun in French 2401 and FREN 2501 by further developing skills in reading and interpretation of literary and cultural texts. It provides an introduction to textual analysis through selected critical approaches. (Format: Lecture 3 Hours) [Note 1: Students planning to minor or major in French are encouraged to take FREN 2501 and FREN 2601 concurrently. When FREN 2501 and 2601 are taken concurrently, a C- in both courses is required for entry into 3000-level French literature and culture courses.]

### FREN 2801 (3.00 CR)
### FILM FROM THE FRENCH AND FRANCOPHONE WORLD / CINÉMA DU MONDE FRANCOPHONE

**Prereq:** FREN 1711 or French Skills Assessment equivalent to 2000 level French language course; or permission of the Department

A study of films and film makers of the French-speaking world, ranging from screen adaptations of literary works to an exploration of cultural issues, and an introduction to film theory and aesthetics. This course is taught in French. Written work may be submitted in English. [Note 1: This course may count as 3 credits in Art History.] (Format: Lecture 3 Hours) (Exclusion: FREN 2201)

### FREN 2841 (3.00 CR)
### CULTURAL ASPECTS OF CONTEMPORARY FRANCE

Consideration of some of the issues and debates that help us to understand French culture, its diversity, its changing nature and its place in the modern world. Although some attention is paid to French politics and society, the primary goal of the course is to explore the multitude of voices that both define and divide modern France. [Note 1: Language of instruction is English.] (Format: Lecture 3 Hours) (Exclusion: FREN 2851; any version of FREN 2841 previously offered with a different title)

### FREN 2991 (3.00 CR)
### SPECIAL TOPIC IN FRENCH

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FREN 2991 more than once, provided the subject matter differs.]

### FREN 3101 (3.00 CR)
### ADVANCED WRITTEN FRENCH I / LE FRANÇAIS ÉCRIT AVANCÉ I

**Prereq:** FREN 2501; or permission of the Department

Intensive review of French grammar with particular attention to features of special difficulty for anglophones. Practice in both grammatical structures and idiomatic usage. (Format: Lecture 3 Hours)

### FREN 3111 (3.00 CR)
### ADVANCED WRITTEN FRENCH II / LE FRANÇAIS ÉCRIT AVANCÉ II

**Prereq:** FREN 3101; or permission of the Department

Writing practice and composition; the idiomatic use of French in a variety of contexts: informal prose, expository writing, technical language, literary language. Vocabulary and style exercises. (Format: Lecture 3 Hours)

### FREN 3131 (3.00 CR)
### ADVANCED ORAL FRENCH / FRANÇAIS ORAL AVANCÉ

**Prereq:** FREN 2501; or permission of the Department

This course is designed for students at the advanced level who aim to speak French with enhanced clarity, spontaneity and colour. It offers a systematic study of phonological and prosodic features of French. By exposing students to a variety of authentic audio-visual documents from Francophone parts of the world, the course targets acquisition of vocabulary, improvement of aural comprehension and the development of communicative strategies through a variety of situations such as conversations, debates, interviews, and presentations. [Note 1: This course is open to students studying French as a second language.] (Format: Lecture/Workshop 3 Hours) (Exclusion: FREN 3151; FREN 3161)

### FREN 3301 (3.00 CR)
### THE AGE OF LOUIS XIV / L'ÉPOQUE DE LOUIS XIV

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Selected works from great writers of the seventeenth century representative of different genre; theatre, poetry, fables, novels or other types of prose texts. (Format: Lecture 3 Hours) (Exclusion: FREN 3321; FREN 3371)

### FREN 3401 (3.00 CR)
### THE AGE OF ENLIGHTENMENT / LE SIÈCLE DES LUMIÈRES

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

The eighteenth century in France was a period of intense and stimulating intellectual turmoil, part of the European phenomenon known as the Enlightenment - a revolution in moral, political, and religious ideas. Through a study of canonical and non canonical texts of the period, this course aims to sensitize students to the interests and preoccupations of a society trying to redefine itself in the background of significant cultural, intellectual and social developments. (Format: Lecture 3 Hours) (Exclusion: FREN 3421; any version of FREN 3401 previously offered with a different title)

### FREN 3411 (3.00 CR)
### THE FRENCH REVOLUTION, BEFORE AND AFTER / LA RÉVOLUTION FRANÇAISE, AVANT ET APRÈS

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

The French Revolution is the pivotal event of European history in the eighteenth century which led to the radical transformation of social values and political systems. The event left a permanent mark on the cultural imagination and collective memory of the Old and New Worlds. The aim of this course is to explore the ways in which the French Revolution transformed culture and society through a study of key texts that are essentially of a literary or journalistic nature. (Format: Lecture 3 Hours)

### FREN 3501 (3.00 CR)
### THE AGE OF ROMANTICISM / L'ÉPOQUE DU ROMANTISME

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Study of French literary and cultural texts representative of the first part of the nineteenth century. The widespread influence of the Romantic movement will be examined by exploring its expression in a variety of textual forms selected from poetry, theatre, tales, historical essays, letters, speeches and novels. (Format: Lecture 3 Hours) (Exclusion: Any version of FREN 3501 previously offered with a different title)

### FREN 3511 (3.00 CR)
### THE AGE OF NATURALISM / L'ÉPOQUE DU NATURALISME

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Study of French literacy and cultural texts representative of the last part of the nineteenth century. The influence of movements like Realism, Naturalism, Symbolism and Decadentism will be examined through a variety of textual forms selected from poetry, short stories, literary essays, letters, novels and theatre. (Format: Lecture 3 Hours) (Exclusion: FREN 3521)

### FREN 3601 (3.00 CR)
### MODERNISM AND SURREALISM / MODERNISME ET SURRÉALISME

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

This course is a study of literary movements and cultural forms in France through representative works from the beginning of the twentieth century until World War II. (Format: Lecture 3 Hours) (Exclusion: Any version of FREN 3601 previously offered with a different title)

### FREN 3611 (3.00 CR)
### EXISTENTIALISM AND AFTER / EXISTENTIALISME ET APRÈS

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

From existentialist realism to the 'nouveau roman' to the post-modern, a study of literary movements and cultural forms in France through representative works from the post-war period. (Format: Lecture 3 Hours) (Exclusion: Any version of FREN 3611 previously offered with a different title)

### FREN 3621 (3.00 CR)
### NEW WRITING, NEW VOICES / NOUVELLES ÉCRITURES, VOIX NOUVELLES

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Study of contemporary literary and cultural production in French (outside Canada) with a focus on new and emerging writers. (Format: Lecture 3 Hours)

### FREN 3721 (3.00 CR)
### QUÉBEC LITERATURE FROM THE HABITANT TO THE QUIET REVOLUTION / LITTÉRATURE QUÉBÉCOISE DE L'HABITANT À LA RÉVOLUTION TRANQUILLE

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

This course studies the main currents in French Canadian and Québécois literature (fiction, theatre, and poetry) from the nineteenth century to the 1970s. It places special emphasis on the literary changes which occur during the Quiet Revolution. (Format: Lecture 3 Hours) (Exclusion: FREN 3711; FREN 3771)

### FREN 3731 (3.00 CR)
### CONTEMPORARY VOICES IN QUÉBÉCOIS LITERATURE / VOIX CONTEMPORAINES DANS LA LITTÉRATURE QUÉBÉCOISE

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

This course examines the main currents in Québécois literature (fiction, theatre, and poetry) from the 1970s into the twenty-first century. (Format: Lecture 3 Hours) (Exclusion: FREN 3711; FREN 3771)

### FREN 3741 (3.00 CR)
### ACADIE: PAST AND PRESENT / L'ACADIE: DE L'EMPREMIER À NOS JOURS

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

This course offers a survey of Acadie, its history, culture and language, and especially of its literature. Of central importance will be the study of Acadian identity, as defined by the often contradictory concepts of tradition, assimilation, resistance and marginalisation. Materials will include literary and non-literary texts, music, film, and electronic resources. (Format: Lecture 3 Hours) (Exclusion: FREN 3831)

### FREN 3801 (3.00 CR)
### FRENCH LITERARY CRITICISM / CRITIQUE LITTÉRAIRE FRANÇAISE

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

An introduction to the principal methods of modern and contemporary French literary criticism. The course includes representative approaches from among structuralism, semiotics, psychoanalysis, speech-act theory, feminism, and deconstruction. (Format: Lecture 3 Hours)

### FREN 3811 (3.00 CR)
### WORD AND IMAGE / TEXTE ET IMAGE

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Different yet inseparable, words and images have always interacted with each other in a variety of ways and forms (i.e. verbal portraiture, literary references to pictoral works, engravings and photographs used as illustrations or book covers, and the use of words in paintings). Adopting an interdisciplinary approach, this course explores the intersection of verbal texts and visual arts in Francophone literature and culture from the Middle Ages to the twenty-first century. (Format: Lecture 3 Hours)

### FREN 3821 (3.00 CR)
### WRITING IN THE FEMININE / ÉCRITURES AU FÉMININ

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Study of key concepts of feminist theories and of works by women writers of French expression. The focus, determined by the instructor, may be as narrow as works from one geographical region written during a well defined and limited time frame or as broad as a comparative study of works from different time periods and different geographical areas. (Format: Lecture 3 Hours) (Exclusion: Any version of FREN 3821 previously offered with a different title)

### FREN 3841 (3.00 CR)
### CRITICAL STUDIES IN FRANCOPHONE CULTURE / CULTURES FRANCOPHONES: ÉTUDES CRITIQUES

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

Critical analysis from a Cultural Studies perspective of cultural identities in France and the French-speaking world. Readings will include literary and non-literary texts, both canonical and non-canonical, representing domains as diverse as history, politics, philosophy, popular culture and the popular press. (Format: Lecture 3 Hours)

### FREN 3851 (3.00 CR)
### TEXTUAL REPRESENTATIONS OF WOMEN / REPRÉSENTATIONS DES FEMMES A TRAVERS LES SIÈCLES

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

This course examines how women have been represented in literary and cultural texts from the Middle Ages to the present. The focus, determined by the instructor, may be on women's changing representations in France and their socio-historical contexts throughout the centuries, or it may include works chosen from the broader field of la Francophonie. The course may concentrate on some important literary figures and their texts, compare female representations by women with those by men or explore certain themes such as women and the body, women and social issues (such as women's rights, women and work, women and politics), or women and marginality. (Format: Lecture 3 Hours)

### FREN 3861 (3.00 CR)
### PORTRAITS OF THE ARTIST IN QUÉBÉCOIS LITERATURE / PORTRAITS DE L'ARTISTE DANS LA LITTÉRATURE QUÉBÉCOISE

**Prereq:** FREN 2501; FREN 2601; or permission of the Department

By examining characters of painters, writers and musicians in a selection of literary works from Québec, this course explores how literature can offer theories of creation and demonstrates why contemporary Québecois texts lend themselves particularly well to such a study. Furthermore, the course familiarizes students with concepts such as intertextuality, intermediality, portraiture, self- representation, and theories of character in fiction. (Format: Lecture 3 Hours)

### FREN 3991 (3.00 CR)
### SPECIAL TOPIC IN FRENCH

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FREN 3991 more than once, provided the subject matter differs.]

### FREN 4001 (3.00 CR)
### STYLISTICS / STYLISTIQUE

**Prereq:** FREN 3111; or permission of the Department

An advanced study of written French, concentrating on the following: the peculiarities of French style, the nature of idiomatic expression and levels of language, "faux amis" and Canadianisms. Written exercises are required on a regular basis. (Format: Lecture 3 Hours)

### FREN 4011 (3.00 CR)
### BASIC PROBLEMS IN TRANSLATION / TECHNIQUES DE LA TRADUCTION ÉLÉMENTAIRE

**Prereq:** FREN 3111; or permission of the Department

The course includes detailed study and written exercises dealing with the following: comparative stylistics (French/English), technical problems of translation, literal translation, transposition and equivalence. Written exercises in both translation and composition are required. (Format: Lecture/Workshop 3 Hours) (Exclusion: Any version of FREN 4011 previously offered with a different title)

### FREN 4950 (6.00 CR)
### INDEPENDENT STUDY IN FRENCH

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for FREN 4950/51 more than once, provided the subject matter differs.]

#### FREN 4951 (3.00 CR)
#### INDEPENDENT STUDY IN FRENCH

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for FREN 4950/51 more than once, provided the subject matter differs.]

#### FREN 4990 (6.00 CR)
#### MÉMOIRE

(Honours Essay) The subject and program of research will be established at the end of the student's third year, and submitted for approval to the Department. The essay must show evidence of scholarly investigation and will be written in French. (Format: Independent Study/Essay) [Note 1: Permission of the Department is required.]

#### FREN 4991 (3.00 CR)
#### SPECIAL TOPIC IN FRENCH

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for FREN 4991 more than once, provided the subject matter differs.]

## GERMAN STUDIES

The German language is spoken by approximately 120 million people in Germany, Austria, Switzerland, Luxembourg and Liechtenstein, and by more than one million Canadians. German is one of the official languages of the European Union and is the second most widely used foreign language in Europe, including Eastern Europe.

German language courses are designed to impart a good working knowledge of German. Students will also gain insight into the culture and mode of life of the German-speaking countries. In addition, as experience shows, students of foreign languages generally show significant improvement in their primary language skills.

German literature is rich and varied. The program places particular emphasis on representative authors and movements in order to provide students access to the literary tradition as a whole. The literature courses also aim to provide a strong complement to the available language courses.

### Language of Instruction

All courses in the German Studies curriculum are taught in German unless indicated otherwise by a note.

### Disciplinary B.A. Programs

#### MINOR in German is 24 credits earned as follows:

| | |
|---|---|
| 15 | from GERM 1001, 1011, 2001, 2011, 3001 |
| 3 to 6 | from German 3/4000 level literature courses |
| 3 to 6 | from GERM 2601, 2701, 2811 and German 3/4000 level literature courses, chosen in consultation with the Program Advisor |

**Note:** An interdisciplinary Major and Honours in Modern Languages, Literatures and Cultures (French, German, Spanish and Japanese), are also available.

## GERMAN COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### GERM 1001 (3.00 CR)
#### ELEMENTARY GERMAN I

This is an intensive course designed for students with no previous knowledge of German. It focuses on the acquisition of basic proficiency in comprehension, speaking, reading, and writing the German language. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: GERM 1000)

#### GERM 1011 (3.00 CR)
#### ELEMENTARY GERMAN II

**Prereq:** GERM 1001; or placement by the Department

The continuation of German 1001, this course pursues the acquisition of basic proficiency in comprehension, speaking, reading, and writing the German language. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: GERM 1000)

#### GERM 1991 (3.00 CR)
#### SPECIAL TOPIC IN GERMAN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GERM 1991 more than once, provided the subject matter differs.]

#### GERM 2001 (3.00 CR)
#### INTERMEDIATE GERMAN I

**Prereq:** GERM 1011; or placement by the Department

This course gives a thorough review of German grammar and syntax, and expands active vocabulary to about 2000 words. Along with composition and conversation it introduces literary analysis. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: GERM 2000)

### GERM 2011 (3.00 CR)
### INTERMEDIATE GERMAN II

**Prereq:** GERM 2001; or placement by the Department

The continuation of German 2001, this course pursues a review of grammar and syntax, the expansion of vocabulary, along with composition and conversation exercises and an introduction to literary analysis. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: GERM 2000)

### GERM 2601 (3.00 CR)
### MODERN GERMAN LITERATURE AND CULTURE

**Prereq:** GERM 1011; or permission of the Department

This course offers a survey of key texts and ideas in modern German fiction from the Enlightenment to the twenty-first century. (Format: Lecture 3 Hours) [Note 1: Language of instruction is English]

### GERM 2701 (3.00 CR)
### THE NEW GERMAN FILM: HISTORY, THEORY AND PRATICE. A REVIEW OF THE DEVELOPMENT OF GERMAN CINEMA AFTER WWII

After a brief history of German film making from its beginnings, and a discussion of the "grammar of film", the course follows the development of the New German Cinema after 1945, examining selected works against the social, economic, and political background. The course will be conducted as a lecture/seminar course, with screenings and discussions of relevant films (screen/video). (Format: Lecture 3 Hours, Film Screening 2.5 Hours) [Note 1: Language of instruction is English.] [Note 2: This course may count as 3 credits in Art History.]

### GERM 2811 (3.00 CR)
### TURN-OF-THE-CENTURY VIENNA

This course will investigate the cultural and social framework of turn-of-the-century Vienna, from approximately 1890 to 1914. It explores the rich intellectual climate that provided the basis for modernity (and decadence) in central Europe by approaching the period in an interdisciplinary fashion and by tracing developments in such diverse fields as literature, music, architecture and psychoanalysis. (Format: Lecture 3 Hours) [Note 1: Language of instruction is English.]

### GERM 2991 (3.00 CR)
### SPECIAL TOPIC IN GERMAN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GERM 2991 more than once, provided the subject matter differs.]

### GERM 3001 (3.00 CR)
### ADVANCED GERMAN I

**Prereq:** GERM 2011; or permission of the Department

This course studies advanced grammar and syntax in German through further expansion of active vocabulary, frequent compositions, oral reports, and an introduction to stylistics. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: GERM 3000)

### GERM 3401 (3.00 CR)
### TOPICS IN GERMAN LITERATURE I

**Prereq:** GERM 2011; or permission of the Department

This course explores a selection of literary texts representative of the distinct literary tradition in German-speaking countries. (Format: Lecture 3 Hours)[Note 1: GERM 3401 may be taken for credit more than once if the topic differs.]

### GERM 3501 (3.00 CR)
### TOPICS IN GERMAN LITERATURE II

**Prereq:** GERM 2011; or permission of the Department

This course explores a selection of literary texts representative of the distinct literary tradition in German-speaking countries. (Format: Lecture 3 Hours)[Note 1: GERM 3501 may be taken for credit more than once if the topic differs.]

### GERM 3991 (3.00 CR)
### SPECIAL TOPIC IN GERMAN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GERM 3991 more than once, provided the subject matter differs.]

### GERM 4901 (3.00 CR)
### DIRECTED READINGS IN GERMAN

**Prereq:** GERM 2011; and permission of the Department

This course explores topics in German literature at an advanced level. (Format: Lecture 3 Hours) [Note 1: GERM 4901 may be taken for credit more than once if the topic differs.]

### GERM 4950 (6.00 CR)
### INDEPENDENT STUDY IN GERMAN

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GERM 4950/51 more than once, provided the subject matter differs.]

### GERM 4951 (3.00 CR)
### INDEPENDENT STUDY IN GERMAN

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for GERM 4950/51 more than once, provided the subject matter differs.]

### GERM 4991 (3.00 CR)
### SPECIAL TOPIC IN GERMAN

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for GERM 4991 more than once, provided the subject matter differs.]

## HISPANIC STUDIES

Spanish is one of the most widely spoken languages of the western world and is an official language of the United Nations' Organization. Canada's interest in the Spanish-speaking world is reflected in organizations such as CIDA, CUSO, WUSC and the Canadian Association of Latin American Studies.

Courses in Spanish, offered within the Department of Modern Languages and Literatures, offer the student a two-fold goal: the first, to learn to speak, understand, read and write this important language - particular attention is directed towards the students' achieving oral-aural proficiency, both in class and in the language laboratory; the second, to become familiar with the culture of the Hispanic world through study of its literary and artistic works. Prizes are offered by the Department for excellence in Spanish Studies.

The study of Spanish can be very important in preparing for a career in the diplomatic corps, various international agencies, teaching, translation, journalism, publishing, and commercial and cultural relations between Canada and Spanish-speaking countries.

The Department supports other programs and activities which enrich the course program. These include Club Hispanico, a film series, Casa Hispana (the Spanish-language section of the language house, when there is sufficient interest) and the possibilities of study in Spain and in Central or South America.

### Language of Instruction

All courses in the Hispanic Studies curriculum are taught in Spanish unless indicated otherwise by a note.

### Disciplinary B.A. Programs

#### MINOR in Hispanic Studies is 24 credits earned as follows:

18 from SPAN 1101, 1111, 2101, 2111, 3101, 3111
3 from SPAN 1801, 1811, 2301
3 from Spanish literature at the 3000/4000

#### MAJOR in Hispanic Studies is 60 credits earned as follows:

18 from SPAN 1101, 1111, 2101, 2111, 3101, 3111
6 from SPAN 1801, 1811, 2301
18 from Spanish courses at the 3000/4000 level
18 from complementary courses in Arts and Letters (which may include additional courses in Hispanic Studies), Humanities, and Social Sciences, chosen in consultation with the Program Advisor

**Note:** An interdisciplinary Major and Honours in Modern Languages, Literatures and Cultures (French, German, Spanish and Japanese), are also available.

## SPANISH COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### SPAN 1101 (3.00 CR)
### INTRODUCTORY SPANISH I

This course teaches elements of Spanish grammar and pronunciation through practice and reading of prescribed texts. This is an intensive course designed for students who have no previous knowledge of Spanish. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: SPAN 1100)

### SPAN 1111 (3.00 CR)
### INTRODUCTORY SPANISH II

**Prereq:** SPAN 1101; or permission of the Department

The continuation of SPAN 1101, this course focuses on elements of Spanish grammar and pronunciation through practice and reading of prescribed texts. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: SPAN 1100)

### SPAN 1801 (3.00 CR)
### SPAIN: A MOSAIC OF CULTURES

This course introduces the history, culture and art of Spain. It focuses on a number of specific eras which were important to the evolution of Spanish identity: the Muslim world, the conquest of America and the Golden Age, the 1898 War, the Spanish Civil War, and the contemporary era. The course intends to show that historical events which occurred in Spain continue to have international repercussions and affect us as a global society today. It explores the culture of Spain across the centuries using various resources including cinema, literature, documents, popular culture and music. [Note 1: Language of instruction is English.] (Format: Lecture 3 Hours) (Exclusion: SPAN 2001; any version of SPAN 1801 previously offered with a different title)

### SPAN 1811 (3.00 CR)
### LATIN AMERICA IN ITS OWN VOICES

An introduction to Latin American cultures through selected literacy texts, films, and other readings, in their historical and social contexts. [Note 1: Language of instruction is English.] (Format: Lecture 3 Hours) (Exclusion: SPAN 2011)

### SPAN 1991 (3.00 CR)
### SPECIAL TOPIC IN HISPANIC STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SPAN 1991 more than once, provided the subject matter differs.]

### SPAN 2101 (3.00 CR)
### INTERMEDIATE SPANISH I

**Prereq:** SPAN 1111; or permission of the Deparmtent

This course consolidates and develops language skills acquired in first year Spanish. It offers intermediate Spanish grammar, oral practice, reading of prescribed texts, and an introduction to Hispanic cultures. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: SPAN 2100)

### SPAN 2111 (3.00 CR)
### INTERMEDIATE SPANISH II

**Prereq:** SPAN 2101; or permission of the Department

The continuation of SPAN 2101, this course combines intermediate Spanish grammar, translation, oral practice, and reading of prescribed texts with a further introduction to Hispanic literatures and cultures. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: SPAN 2100)

### SPAN 2301 (3.00 CR)
### LATINO LITERATURE OF THE UNITED STATES AND CANADA

**Prereq:** SPAN 1111; or permission of the Department

This course surveys the works of writers of Hispanic origin, including U.S. - and Canadian-born authors of Hispanic ancestry and immigrants from Spanish-speaking countries. It includes representative works of poetry, narrative prose, and dramatic literature, studied in a socio-historical context, with readings on 'border culture' and other critical writings on transculturation, displacement, and linguistic identity. (Format: Lecture 3 Hours) [Note 1: Language of instruction is English.]

### SPAN 2991 (3.00 CR)
### SPECIAL TOPIC IN HISPANIC STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SPAN 2991 more than once, provided the subject matter differs.]

### SPAN 3060 (6.00 CR)
### FIELD STUDY IN LANGUAGE AND CULTURE

**Prereq:** SPAN 2111; and permission of the Department

This course includes intensive study of the Spanish language as well as instruction in history and culture with an emphasis on sociolinguistic aspects of the country in which it is taught. Students participating in this course will combine their classroom instruction with a significant component of field research in theatre, film, or other related arts. (Format: Field Course) [Note 1: This course is only available to students during the Spring/Summer Term. Students should be aware of the additional costs of travel and participation fees.]

### SPAN 3101 (3.00 CR)
### ADVANCED SPANISH I

**Prereq:** SPAN 2111; or permission of the Department

This course includes intensive conversation, composition and translation. Applied grammar will be included, as will exposure to Hispanic cultures through audiovisual resources (film, print journalism and computer-based sources). Three class periods per week, plus a fourth hour to be arranged after classes have begun. (Format: Lecture 3 Hours, Laboratory 1 Hour)

### SPAN 3111 (3.00 CR)
### ADVANCED SPANISH II
**Prereq:** SPAN 3101; or permission of the Department

A continuation of the Advanced Spanish Language course, primarily through literary texts from Spain and Latin America. This course includes intensive practice in writing, translation, and oral expression, and offers an introduction to Hispanic Literatures that is a prerequisite (or, with permission from the Department, a co-requisite) for all Hispanic Studies courses numbered 3200 and higher. (Format: Lecture 3 Hours)

### SPAN 3201 (3.00 CR)
### MEDIEVAL SPANISH LITERATURE
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

A study of the rise and evolution of Spanish literature against its historical background through the reading and discussion of literary works of all types from the 11th to the 15th centuries. (Format: Lecture 3 Hours)

### SPAN 3211 (3.00 CR)
### SPANISH LITERATURE OF THE GOLDEN AGE
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

A study of the literature of Spain of the 16th and 17th centuries. Particular attention will be given to poetry, theatre and the novel. (Format: Lecture 3 Hours)

### SPAN 3221 (3.00 CR)
### NINETEENTH-CENTURY SPANISH LITERATURE
**Prereq:** SPAN 3101 and 3111; or permission of the Department

A study of the poetry and theatre of the Romantic period and of the novel of the second half of the century. (Format: Lecture 3 Hours)

### SPAN 3231 (3.00 CR)
### CONTEMPORARY SPANISH LITERATURE
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

This course is a study of selected poetry, novels and plays of this period beginning with the "Generacion de 1898". (Format: Lecture 3 Hours) (Exclusion: Any version of SPAN 3231 previously offered with a different title)

### SPAN 3301 (3.00 CR)
### SHORT PROSE OF LATIN AMERICA
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

A survey of the short story and the essay, concentrating primarily on the Twentieth Century. Readings from some of the principal essayists and short story writers. (Format: Lecture 3 Hours)

### SPAN 3311 (3.00 CR)
### THE SPANISH-AMERICAN NOVEL
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

A study of 19th and 20th-Century novels and of the principal themes and forms of the genre. (Format: Lecture 3 Hours)

### SPAN 3321 (3.00 CR)
### SPANISH-AMERICAN THEATRE
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

A survey of the theatre of Latin America, through a study of key examples of its dramatic literature and historical trends. (Format: Lecture 3 Hours)

### SPAN 3331 (3.00 CR)
### SPANISH-AMERICAN POETRY
**Prereq:** SPAN 3101; SPAN 3111; or permission of the Department

A survey of the poetry of Latin America, concentrating on the modern (20th Century) period. (Format: Lecture 3 Hours)

### SPAN 3991 (3.00 CR)
### SPECIAL TOPIC IN HISPANIC STUDIES
This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SPAN 3991 more than once, provided the subject matter differs.]

### SPAN 4950 (6.00 CR)
### INDEPENDENT STUDY IN HISPANIC STUDIES
This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for SPAN 4950/51 more than once, provided the subject matter differs.]

### SPAN 4951 (3.00 CR)
### INDEPENDENT STUDY IN HISPANIC STUDIES
This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for SPAN 4950/51 more than once, provided the subject matter differs.]

### SPAN 4991 (3.00 CR)
### SPECIAL TOPIC IN HISPANIC STUDIES
**Prereq:** 6 credits from SPAN at the 3000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SPAN 4991 more than once, provided the subject matter differs.]

# JAPANESE STUDIES

## Interdisciplinary B.A. Program

### MINOR in Japanese Studies is 24 credits earned as follows:

12 from JAPA 1001, 1011, 2001, 2011
12 from ECON 3501, 4531,GENV 3321, HIST 2721, 2731, RELG 3101, 3891

**Note:** Transfer credits earned at Kwansei Gakuin University may be applied in fulfillment of this program with permission of the Program Advisor and an Academic Dean. Exchange students who have earned 60 or more credits in Japanese Studies may apply for approval of a specially approved Interdisciplinary Major in Japanese Studies in accordance with Calendar Regulation 11.2.12.

**Note:** An interdisciplinary Major and Honours in Modern Languages, Literatures and Cultures (French, German, Spanish and Japanese), are also available.

## JAPANESE COURSES

**Note:** The listing of a course in the calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### JAPA 1001 (3.00 CR)
### INTRODUCTORY JAPANESE I

This course offers an introduction to the main elements of the modern Japanese language. It emphasizes learning the hiragana and katakana systems of writing and the essentials of grammar. It is intended for students with no prior background in Japanese. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: JAPA 1000)

### JAPA 1011 (3.00 CR)
### INTRODUCTORY JAPANESE II

**Prereq:** JAPA 1001; or permission of the Department

A continuation of JAPA 1001, this course introduces the main elements of the modern Japanese language. It emphasizes learning the hiragana and katakana systems of writing and the essentials of grammar. In addition students begin to learn the kanji character form and there is an increasing emphasis on communication in spoken and written Japanese. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: JAPA 1000)

### JAPA 2001 (3.00 CR)
### INTERMEDIATE JAPANESE I

**Prereq:** JAPA 1011; or permission of the Department

This course is a continuation of JAPA 1011, directing particular attention to communications skills in both writing and speaking Japanese. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exlcusion: JAPA 2000)

### JAPA 2011 (3.00 CR)
### INTERMEDIATE JAPANESE II

**Prereq:** JAPA 2001; or permission of the Department

This course is a continuation of JAPA 2001 directing particular attention to communications skills in both writing and speaking Japanese. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: JAPA 2000)

# LINGUISTICS

Like other inquiries which are central to human experience, language has long been the focus of intellectual examination. Speculation on the nature of language appears in the works of Plato, Aristotle and other Greek philosophers. Although a number of disciplines, from literary studies to computer science, share the study of language with linguistics, the focus of linguistics is the scientific study of language. Linguists are interested in how human language is organized in the human mind and in how the social structures of human communities shape language to their own purposes, reflecting themselves in language use.

## LINGUISTICS COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department or Program Co-ordinator must be obtained.

### LING 2001 (3.00 CR)
### INTRODUCTION TO THE STUDY OF LANGUAGE

A general-interest course intended to acquaint students in all fields with the structural, social and psychological forces that shape language, beginning with a consideration of the origins and nature of language and proceeding to an examination of languages as systems and the ways they structure meaning. (Format: Lecture 3 Hours)

### LING 3001 (3.00 CR)
### FUNDAMENTALS OF GENERAL LINGUISTICS

**Prereq:** LING 2001; 6 credits from a language other than English; students completing a Major or Honours in Modern Languages, Literatures and Cultures will be admitted without LING 2001; or permission of the Department

This course on the nature and structure of language examines the physiology of speech, word formation, theoretical concepts of sentence generation, and the phonological and historical forces involved in language creation and language change. It is recommended for senior students in language and literary studies, and students interested in language pathology. (Format: Lecture 3 Hours)

### LING 3011 (3.00 CR)
### LANGUAGE AND SOCIETY

**Prereq:** LING 2001; 6 credits in a language other than English; or permission of the Department

This course is an introduction to issues and methods in the field of sociolinguistics, the study of the interaction between language and the structure and functioning of society. It includes topics in language variation, the contact of languages and bilingualism, and issues in second-language acquisition. (Format: Lecture 3 Hours)

# MODERN LANGUAGES, LITERATURES AND CULTURES

## Interdisciplinary B.A. Program

### MAJOR in Modern Languages, Literatures, and Cultures is 72 credits earned as follows:

A. 33 credits from one of French or Hispanic Studies, with a minimum of 15 from the 3/4000 levels, as follows:
   33 21 from FREN 1701, 1711, 2401, 2501, 2601, 3101 and 3111
   3 to 6 from FREN 1801, 1811, 2801, 2841, 3841
   6 to 9 from French literature 3301, 3401, 3411, 3501, 3511, 3601, 3611, 3621, 3721, 3731, 3741, 3801, 3811, 3821, 3841, 3851, 3861, 4951

or 33 18 from SPAN 1101, 1111, 2101, 2111, 3101, 3111
   3 to 6 from SPAN 1801, 1811, 2301
   9 to 12 from SPAN 3060, 3201, 3211, 3221, 3231, 3301, 3311, 3321, 3331, 4800/4801, 4950/51

B. 24 credits from a second of the three study areas listed below, as follows:
   24 18 from FREN 1701, 1711, 2401, 2501, 3101 and 3111
   6 from FREN 1801, 1811, 2601, 2801, 2841, 3301, 3401, 3411, 3501, 3511, 3601, 3611, 3621, 3721, 3731, 3741, 3801, 3811, 3821, 3841, 3851, 3861, 4951

or 24 15 from GERM 1001, 1011, 2001, 2011, 3001
   9 from GERM 2601, 2701, 2811, 3401, 3501, 4901, 4951

or 24 18 from SPAN 1101, 1111, 2101, 2111, 3101, 3111
   6 from SPAN 1801, 1811, 2301, 3060, 3201, 3211, 3221, 3231, 3301, 3311, 3321, 3331, 4800/4801, 4950/51

C. 12 credits from a third language, other than those previously selected, chosen from French, German, Spanish or Japanese, as follows:
   12 from FREN 1701, 1711, 2401, 2501

or 12 from GERM 1001, 1011, 2001, 2011

or 12 from SPAN 1101, 1111, 2101, 2111

or 12 from JAPA 1001, 1011, 2001, 2011

D. 3 from Linguistics 3001

**Note:** All literature and culture courses are to be chosen in consultation with the Program Advisor.

**Note:** Any student exempted from a language course must replace that course with a language course at a higher level, or if none is available, with a literature or culture course taught in the target language, chosen in consultation with the Program Advisor.

**Note:** Students choosing this major may not complete a minor in either the first or second languages of specialization; they may complete a minor in the third language of specialization.

### HONOURS in Modern Languages, Literatures and Cultures is composed of 78 credits as follows:

72 credits as earned in the Modern Languages, Literatures and Cultures degree, and

6 credits from MLLC 4990 (Honours Essay)

**Note:** Any student exempted from a language course must replace that course with a language course at a higher level, or if none is available, with a literature or culture course taught in the target language, chosen in consultation with the Program Advisor.

**Note:** Students completing this Honours program may not record a minor in either the first or second languages of specialization.

## MODERN LANGUAGES, LITERATURES AND CULTURES COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### MLLC 4990 (6.00 CR)
#### HONOURS ESSAY

The subject and program of research will be established at the end of the third year and submitted to the Department for approval. The essay must show evidence of scholarly investigation. (Format: Independent Study/Thesis) [Note 1: Permission of the Department is required.]

# MUSIC

The study and performance of music has been a special feature of Mount Allison University since the first Certificate in Music was granted in 1874. The Department's splendid facilities and versatile faculty enable Mount Allison to provide a thoroughly professional experience within a small, residential, liberal arts university.

The Department of Music offers programs leading to the Bachelor of Music and Bachelor of Arts (Major or Honours in Music) degrees. Each program is designed to develop well-rounded musicians as well as to provide students with a solid foundation in the liberal arts. A Minor in Music is available to students in any program at Mount Allison. The various curricula conform to the guidelines adopted by the Canadian University Music Society. A wide variety of courses are offered in the following areas: Theory and Composition, Music History and Literature, Music Education, and Performance.

The Department of Music also offers courses and ensembles as electives for students outside the Bachelor of Music, B.A. (Honours or Major in Music), and Minor in Music programs. Subject to auditions, all students may participate in the Music Department's ensembles that are valued at one credit per year of participation.

**Note:** For information concerning the Bachelor of Music Degree Requirements, see Section 11.6 - Music.

## Disciplinary B.A. Programs

These programs are designed for students who wish to study music along with more Arts and Science courses than the Bachelor of Music program allows.

Students planning a B.A. (Major in Music) should note that the course requirements for this major can take three academic years to fulfill. It is strongly recommended, therefore, that following consultation with the Music Program Advisor students declare this major before the end of first year and complete a Music Application form.

### MINOR in Music is 24 credits earned as follows:

12 from 1101, 1111, 1201, 1703
6 from 1001, 1011, 1211, 2001, 2011, 2021, 2101, 2111, 2141, 2151, 2201, 2211, 2703
6 from Music courses at the 3000/4000 level

### MAJOR in Music is 60 credits earned as follows:

12 from MUSC 1101, 1111, 1201, 1703
6 from MUSC 2101, 2111
3 from MUSC 1619-4619, 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 1689-4689, 2679-4679
21 from Music courses at the 3/4000 level
18 from complementary courses from other disciplines in Arts and Letters and Humanities

Note: Ensemble credits must be completed over at least two years

### HONOURS in Music (Course Option) is 66 credits earned as follows:

42 credits as in the first four lines of the Major in Music
9 credits from MUSC 1211, 2201, 2211
15 credits from Music courses at the 3/4000 level

### HONOURS in Music (Thesis Option) is 66 credits earned as follows:

42 credits as in the first four lines of the Major in Music
9 credits from MUSC 1211, 2201, 2211
9 credits from Music courses at the 3/4000 level
6 from MUSC 4990

## MUSIC COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### MUSC 1001 (3.00 CR)
#### FUNDAMENTALS OF MUSIC I

This course is an introduction to fundamental concepts of music theory, including notation and technical terminology, as well as to listening, singing, and keyboard skills. [Note 1: This course is not available for credit for the Bachelor of Music program. Credit will not be given for this course if credit has already been granted for MUSC 1011, 1101, or 1111.] (Format: Lecture 3 Hours)

#### MUSC 1011 (3.00 CR)
#### FUNDAMENTALS OF MUSIC II

**Prereq:** MUSC 1001

This course is a continuation of Music 1001. [Note 1: This course is not available for credit for the Bachelor of Music program. Credit will not be given for this course if credit has already been granted for MUSC 1101 or 1111.] (Format: Lecture 3 Hours)

#### MUSC 1101 (3.00 CR)
#### MATERIALS OF MUSIC I

**Prereq:** MUSC 1011; or Entrance Assessment

This course is a study of the harmonic, melodic, rhythmic, and formal materials of music through analysis, writing, and listening. (Format: Lecture 3 Hours)

#### MUSC 1111 (3.00 CR)
#### MATERIALS OF MUSIC II

**Prereq:** MUSC 1101

This course is a continuation of Music 1101. (Format: Lecture 3 Hours)

#### MUSC 1201 (3.00 CR)
#### INTRODUCTION TO MUSIC HISTORY AND LITERATURE

**Prereq:** Registration in the first year of the B.Mus. or B.A. Major or Minor in Music; or permission of the Department

This course introduces students to the history and literature of music in the Western World and provides an overview of the various styles, eras, and genres of Western Art Music. It considers and compares changing concepts, styles, forms, and media. (Format: Lecture 3 Hours)(Exclusion: MUSC 2001; Any version of MUSC 1201 previously offered with a different title)

### MUSC 1211 (3.00 CR)
### MUSIC HISTORY AND LITERATURE I

**Prereq:** MUSC 1201; or permission of the Department
**Coreq:** MUSC 1111

This course surveys Western Art Music history and literature from its beginnings to 1750. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 1211 previously offered with a different title)

### MUSC 1501 (3.00 CR)
### APPLIED MUSIC I

This applied course involves individual weekly instruction in vocal and instrumental music and facilitates technical command, interpretive insight, and understanding of pedagogical procedures. It stresses the development of the ability to perform with competence and musical understanding while providing a comprehensive background of music of various periods, styles, and composers. [Note 1: This course is only open to students enrolled in the Bachelor of Music program. Note 2: All piano and organ students enrolled in MUSC 1501 must take MUSC 1601.] (Format: Private Instruction 1 Hour)

### MUSC 1511 (3.00 CR)
### APPLIED MUSIC II

**Prereq:** MUSC 1501

This applied course continues the weekly instruction started in MUSC 1501, culminating in a juried performance at the end of the term. (Format: Private Instruction 1 Hour).

### MUSC 1521 (3.00 CR)
### DICTION FOR SINGERS

This course introduces the symbols and sounds of the International Phonetic Alphabet and its application to the English, French, German, and Italian languages. It explores differences between spoken and sung language and investigates and practices physical processes required to produce the various sounds. [Note 1: This course is only open to students enrolled in the Bachelor of Music program, or by permission of the Department. Note 2: All voice students must complete MUSC 1521 in the course of their degree. It is recommended that this course be completed within the first two years of study.] (Format: Lecture 3 Hours)

### MUSC 1601 (3.00 CR)
### COLLABORATIVE KEYBOARD I

**Coreq:** MUSC 1501

This course provides the basic knowledge and skills necessary for artistic accompaniment. It examines different styles of music, including Art Song, Lieder, and Oratorio, as well as accompaniments for instrumental works and orchestral reductions.[Note 1: This course is only open to students enrolled in the Bachelor of Music program, or by permission of the Department. Note 2: All piano and organ students registered for MUSC 1501 must also take MUSC 1601](Format: Integrated Lecture and Laboratory 3 Hours)(Exclusion: MUSC 2603 Collaborative Keyboard I)

### MUSC 1703 (3.00 CR)
### AURAL SKILLS AND MUSICIANSHIP I

**Coreq:** MUSC 1101; or permission of the Department

This course studies the practical aspects of music theory. It includes practice in aural musicianship skills, including sight-singing, interval recognition, dictation, improvisation, and keyboard skills. (Format: Integrated Lecture and Laboratory 1.5 Hours)

### MUSC 1801 (3.00 CR)
### INTRODUCTION TO APPLIED MUSIC I

This applied course provides individual weekly instruction in vocal or instrumental music, emphasizing technical proficiency and the development of interpretive insight. This course stresses the development of the ability to perform with competence and musical understanding. (Format: Private Instruction 1 Hour) [Note: MUSC 1801 is open to students from other degree programs by permission of the Department, dependent on available space and completion of a successful audition. All other applied music courses are only open to students in the B.Mus. program.]

### MUSC 1811 (3.00 CR)
### INTRODUCTION TO APPLIED MUSIC II

**Prereq:** MUSC 1801; or permission of the Department

This applied course continues the weekly instruction started in MUSC 1801, culminating in a juried performance at the end of the term. (Format: Private Instruction 1 Hour)

### MUSC 1991 (3.00 CR)
### SPECIAL TOPIC IN MUSIC

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MUSC 1991 more than once, provided the subject matter differs.]

### MUSC 2001 (3.00 CR)
### INTRODUCTION TO MUSIC

This course considers the art of listening to music. It introduces the elements of music and examines Western classical music, popular and folk music, world music, and film music through historical and analytical lenses to explore the various ways that music continues to hold meaning. [Note 1: This course is not available for credit for the Bachelor of Music program.](Format: Lecture 3 Hours)(Exclusion: MUSC 1201)

### MUSC 2011 (3.00 CR)
### SURVEY OF WESTERN MUSIC

This course focuses on the study of music in the Western world and on the development of listening skills. In it the study of form and style in music are interrelated with historical considerations in a chronological approach to music history. (Format: Lecture 3 Hours) [Note 1: This course is not available for credit for the Bachelor of Music program. Credit will not be given for this course if credit has already been granted for MUSC 1201.]

### MUSC 2021 (3.00 CR)
### WORLD MUSIC

This course introduces different musical traditions from around the world and examines the innovative and eclectic mix that makes up world music today. It discusses elements of musical language such as melody, rhythm, harmony, counterpoint, and musical form and considers the variety of musical instruments used around the world as well as a number of outstanding individual musicians of various styles, old and new. (Format: Lecture 3 Hours)

### MUSC 2101 (3.00 CR)
### MATERIALS OF MUSIC III

**Prereq:** MUSC 1111; or permission of the Department

This course is a review and continuation of MUSC 1111, covering more advanced materials in the harmonic, melodic, rhythmic, and formal elements of music. (Format: Lecture 3 Hours)

### MUSC 2111 (3.00 CR)
### MATERIALS OF MUSIC IV

**Prereq:** MUSC 2101; or permission of the Department

This course is a continuation of Music 2101. (Format: Lecture 3 Hours, Laboratory 2 Hours)

### MUSC 2141 (3.00 CR)
### COMPOSITION AND MUSIC TECHNOLOGY I

**Prereq:** MUSC 1111; or permission of the Department

This course focuses on the small forms using traditional concepts, techniques, and idioms in a variety of styles and instrumentation. It places emphasis on developing an awareness of the factors that come into play in musical composition as well as on recognizing and being able to produce strong musical material. It includes instruction in notation software and digital audio. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 2141 previously offered with a different title)

### MUSC 2151 (3.00 CR)
### COMPOSITION AND MUSIC TECHNOLOGY II

**Prereq:** MUSC 2141; or permission of the Department

This course is a continuation of Music 2141. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 2151 previously offered with a different title)

### MUSC 2201 (3.00 CR)
### MUSIC HISTORY AND LITERATURE II

**Prereq:** MUSC 1201; or permission of the Department
**Coreq:** MUSC 2101

This course surveys Western Art Music history and literature from 1750 to 1900. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 2201 previously offered with a different title)

### MUSC 2211 (3.00 CR)
### MUSIC HISTORY AND LITERATURE III

**Prereq:** MUSC 2201; or permission of the Department
**Coreq:** MUSC 2111

This course surveys Western Art Music history and literature from 1900 to the present. It examines the social, cultural, and historical contexts of the works studied. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 2211 previously offered with a different title)

### MUSC 2501 (3.00 CR)
### APPLIED MUSIC III

**Prereq:** MUSC 1511

This applied course involves individual weekly instruction in vocal and instrumental music and facilitates technical command, interpretive insight, and understanding of pedagogical procedures. It stresses the development of the ability to perform with competence and musical understanding while providing a comprehensive background of music of various periods, styles, and composers. (Format: Private Instruction 1 Hour)

### MUSC 2511 (3.00 CR)
### APPLIED MUSIC IV

**Prereq:** MUSC 2501

This applied course continues the weekly instruction started in MUSC 2501 culminating in a juried performance at the end of the term. (Format: Private Instruction 1 Hour)

### MUSC 2603 (3.00 CR)
### COLLABORATIVE KEYBOARD II

**Prereq:** MUSC 1601

This course provides practical experience in collaborating with vocalists and instrumentalists, building on the skills learned in MUSC 1601. (Format: Private Instruction 0.5 hours)(Exclusion: MUSC 3603 Collaborative Keyboard II)

### MUSC 2613 (3.00 CR)
### CHAMBER MUSIC I

**Prereq:** Second-year standing in the BMUS program; and permission of the Department

This course provides practical experience in the art of chamber music performance. (Format: Private Instruction 1 Hour) [Note 1: The Department assigns instructors and approved repertoire (30 minutes minimum) in the term prior to the course being taught.]

### MUSC 2703 (3.00 CR)
### AURAL SKILLS AND MUSICIANSHIP II

**Prereq:** MUSC 1703; or permission of the Department

This course continues work on aural skills and musicianship begun in MUSC 1703. (Format: Integrated Lecture and Laboratory 1.5 Hours)

### MUSC 2991 (3.00 CR)
### SPECIAL TOPIC IN MUSIC

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MUSC 2991 more than once, provided the subject matter differs.]

### MUSC 3001 (3.00 CR)
### INTRODUCTION TO MUSIC IN CANADA

This course surveys from historical and social perspectives music in Canada from the beginning of the seventeenth century to the present and includes the folk music of indigenous and immigrant groups. (Format: Lecture 3 Hours)

### MUSC 3121 (3.00 CR)
### ORCHESTRATION
**Prereq:** MUSC 2111; or permission of the Department

This course focuses on use of the instruments of the standard symphony orchestra through study of the orchestral literature and the relationship between medium and style. In it students prepare scores and parts for solo and combinations of instruments. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 3121 previously offered with a different title; MUSC 3131)

### MUSC 3141 (3.00 CR)
### COMPOSITION & MUSIC TECHNOLOGY III
**Prereq:** MUSC 2151; or permission of the Department

This course is a continuation of MUSC 2151 with work in both small and large forms, using concepts, techniques, and idioms of twentieth century art music. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 3141 previously offered with a different title)

### MUSC 3151 (3.00 CR)
### COMPOSITION AND MUSIC TECHNOLOGY IV
**Prereq:** MUSC 3141; or permission of the Department

This course is a continuation of MUSC 3141. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 3151 previously offered with a different title)

### MUSC 3161 (3.00 CR)
### ARRANGING
**Prereq:** MUSC 2111; or permission of the Department

This course focuses on arranging extant or original music material for specific instruments and instrumental families, including voice. It includes considerations of style, instrumentation and notation, and final progression from arrangement through score and parts preparation to performance. (Format: Lecture 3 Hour)(Exclusion: Any version of MUSC 3161 previously offered with a different title; MUSC 3171)

### MUSC 3201 (3.00 CR)
### OPERA HISTORY
**Prereq:** 3 credits from MUSC 1201, MUSC 2011, DRAM/ENGL 1701; or permission of the Department

This course is intended to provide the student with an overview of the history of opera from its earliest beginnings to the present day. Representative works of the major opera composers are studied throughout the term. The emphasis of the course is on studying operatic forms, styles, and the musico-dramatic associations between music, libretto and onstage action. It also considers the struggle for dominance between text and music. (Format: Lecture 3 Hours)(Exclusion: MUSC 3211 History of Opera)

### MUSC 3221 (3.00 CR)
### KEYBOARD LITERATURE
**Prereq:** MUSC 2211; or permission of the Department

This course surveys the standard literature for keyboard instruments, specifically for harpsichord and piano, from the Baroque period to the present day. [Note 1: This course is strongly recommended for all piano students.](Format: Lecture 3 Hours) (Exclusion: MUSC 3211 Keyboard Literature)

### MUSC 3231 (3.00 CR)
### MUSIC AND DIFFERENCE
**Prereq:** 3 credits from MUSC 1201, 2011; or permission of the Department

The course focuses on music from a variety of styles, ethnicities, and historical eras (both "art" and "popular" music) in order to explore ways in which difference has shaped musical life, experience, and composition. Although it addresses how ageism, racism, classism and disability studies relate to music, the course emphasizes feminist perspectives on music and more specifically gay, lesbian, bisexual, transgender, and queer identities and issues within music and music-making. (Format: Lecture 3 Hours)

### MUSC 3261 (3.00 CR)
### WOMEN AND MUSIC
**Prereq:** 3 credits from MUSC 1201, 2011; or permission of the Department

This course explores the many roles women have played in music and music-making, as performers, composers, conductors, teachers, critics, patrons or subjects of musical composition. The main focus of the course is a detailed look at music and culture in diverse periods of history and from various styles, traditions, and ethnicities. It also looks at the role of feminist criticism and gender studies in challenging our perceptions and assumptions about music. (Format: Lecture 3 Hours) (Exclusion: MUSC 3211 Women in Music; MUSC 2221)

### MUSC 3271 (3.00 CR)
### MODERN MUSICAL THEATRE
**Prereq:** 3 credits from MUSC 1201, MUSC 2011, DRAM/ENGL 1701; or permission of the Department

This course surveys selected important works in the American and British Musical theatre traditions from precursors in the nineteenth-century to the mature musicals of Stephen Sondheim and Andrew Lloyd Webber. It studies musicals in their historical and cultural context and as they relate to popular song and musical styles. (Format: Lecture 3 Hours)(Exclusion: MUSC 3211 Musical Theatre; MUSC 2231)

### MUSC 3281 (3.00 CR)
### THE BEATLES
**Prereq:** MUSC 1111; However, non-B. Mus. or B.A Major in Music students with third-year standing will be admitted; or permission of the Department

This course addresses the musical, social, and cultural issues surrounding one of the most important rock groups of the twentieth century. Drawing on a large body of recent scholarship, the course considers the Beatles' albums from early covers of music by other artists to their own "song cycles" such as Sgt. Pepper and Revolver. (Format: Integrated Lecture and Laboratory)(Exclusion: MUSC 3991 The Beatles)

### MUSC 3301 (3.00 CR)
### VOCAL PEDAGOGY
**Prereq:** Musc 1111; or permission of the Department

This practical course acquaints the student with the skills required for good singing and also teaches how to teach voice students. It studies the basic physiology, acoustics and co-ordination of singing in a class situation. The emphasis is on vocal production and expression and includes solo singing of standard repertoire, with critical analysis by the class of vocal technique and style. It also considers the application of vocal principles to choral singing. (Format: Integrated Lecture and Laboratory 3 Hours)(Exclusion: Any version of MUSC 3301 previously offered with a different title)

### MUSC 3311 (3.00 CR)
### ELEMENTARY METHODS
**Prereq:** MUSC 2111; or permission of the Department

This course is designed to introduce students to the topic of music and young children, and to acquaint them with current philosophies and methodologies with an emphasis upon those of Zoltan Kodály and Carl Orff. It is designed for any music students who are interested in the topic of music and young children and is not limited to those students planning to teach in the public schools. (Format: Lecture 3 Hours)

### MUSC 3321 (3.00 CR)
### BRASS METHODS
**Prereq:** MUSC 1111; or permission of the Department

This practical course acquaints the student with the basic skills necessary for the playing and teaching of the instruments of the brass family. It concentrates on basic embouchure formation, posture, hand position, fingering or slide position, proper breathing, and methodology. (Format: Integrated Lecture and Laboratory 3 Hours)

### MUSC 3331 (3.00 CR)
### WOODWIND METHODS
**Prereq:** MUSC 1111; or permission of the Department

This practical course acquaints the student with the basic skills necessary for the playing and teaching of the instruments of the woodwind family. It concentrates on basic embouchure formation, posture, fingering, proper breathing, and methodology. (Format: Integrated Lecture and Laboratory 3 Hours)

### MUSC 3341 (3.00 CR)
### STRING METHODS
**Prereq:** MUSC 1111; or permission of the Department

This practical course acquaints the student with the basic skills necessary for the playing and teaching of the instruments of the bowed string family. The instructor assigns instruments, and the student plays one instrument (violin, viola, cello, or bass) for the duration of the course. The course concentrates on basic techniques of posture, position, bowing and left-hand finger patterns. (Format: Integrated Lecture and Laboratory 3 Hours)

### MUSC 3351 (3.00 CR)
### PERCUSSION METHODS
**Prereq:** MUSC 1111; or permission of the Department

This practical course provides the basic skills necessary for the playing and teaching of the instruments of the percussion family. It concentrates initially on rudimentary and advanced drumming techniques, followed by basic instruction on tympani and mallet instruments, and on percussion instruments of indefinite pitch. (Format: Integrated Lecture and Laboratory 3 Hours)(Exclusion: MUSC 4351)

### MUSC 3401 (3.00 CR)
### INTRODUCTION TO CONDUCTING
**Prereq:** MUSC 1111; or permission of the Department

This course is designed to train students in the physical techniques and fundamentals of conducting and in basic rehearsal strategies and score preparation. (Format: Lecture/Laboratory 3 Hours)

### MUSC 3411 (3.00 CR)
### CHORAL CONDUCTING
**Prereq:** MUSC 2111; MUSC 3301; MUSC 3401; or permission of the Department

This course focuses on various aspects of choral conducting, including expressive conducting techniques, rehearsal strategies, and choral literature and programming. (Format: Lecture/Laboratory 3 Hours)

### MUSC 3421 (3.00 CR)
### INSTRUMENTAL CONDUCTING
**Prereq:** MUSC 2111; MUSC 3401; or permission of the Department

This course is designed to train students in conducting, leading and rehearsing an instrumental ensemble, particularly the symphonic band. Other topics include instrumental ensemble literature, score study, and instrument characteristics. (Format: Lecture/Laboratory 3 Hours)

### MUSC 3501 (3.00 CR)
### APPLIED MUSIC V
**Prereq:** MUSC 2511

This applied course involves individual weekly instruction in vocal and instrumental music and facilitates technical command, interpretive insight, and understanding of pedagogical procedures. It stresses the development of the ability to perform with competence and musical understanding while providing a comprehensive background of music of various periods, styles, and composers.(Format: Private Instruction 1 Hour)

### MUSC 3511 (3.00 CR)
### APPLIED MUSIC VI
**Prereq:** MUSC 3501

This applied course continues the weekly instruction started in MUSC 3501, culminating in a juried performance at the end of the term. (Format: Private Instruction 1 Hour)

### MUSC 3581 (3.00 CR)
### APPLIED MUSIC VI WITH SHARED RECITAL

**Prereq:** MUSC 3501; and permission of the Department, granted only after a successful recital application jury

This applied course continues the weekly instruction started in MUSC 3501, with the addition of the preparation and execution of a public recital program of approximately 30 minutes of music under the supervision of the student's Applied Music teacher. [Note 1: Students intending to register for MUSC 3581 must normally have achieved a grade of at least A- in MUSC 2511; must have participated in two Collegia, or the equivalent, since enrolling in the B.Mus. program; and must pass a Recital Application Jury.](Format: Private Instruction 1 Hour)(Exclusion: MUSC 3511)

### MUSC 3603 (3.00 CR)
### COLLABORATIVE KEYBOARD III

**Prereq:** MUSC 2603

This course provide students with practical experience in collaborating with vocalists and instrumentalists, building on the skills learned in MUSC 2603. (Format: Private Instruction 0.5 Hours)(Exclusion: MUSC 4601 Collaborative Keyboard III; MUSC 4603 Collaborative Keyboard III)

### MUSC 3613 (3.00 CR)
### CHAMBER MUSIC II

**Prereq:** MUSC 2613; and permission of the Department

This course provides practical experience in the art of chamber music performance. (Format: Private Instruction 1 Hour) [Note 1: The Department assigns instructors and approved repertoire (30 minutes minimum) in the term prior to the course being taught.]

### MUSC 3801 (3.00 CR)
### JAZZ IMPROVISATION

**Prereq:** Permission of the Department

This course is a performance-based exploration of improvisation, the quintessential skill for jazz musicians. It deepens theoretical understanding of this genre including blues form and standard jazz progressions. (Format: Integrated Lecture and Lab 3 Hours; Exclusion: MUSC 3991/3993 Jazz Improvisation)

### MUSC 3991 (3.00 CR)
### SPECIAL TOPIC IN MUSIC

**Prereq:** MUSC 2211; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MUSC 3991 more than once, provided the subject matter differs.]

### MUSC 4181 (3.00 CR)
### ANALYTICAL TECHNIQUES

**Prereq:** MUSC 2111; or permission of the Department

This course develops skills in the analysis of music through examination of scores drawn from a wide range of periods, styles and media. It introduces various theories of coherence and unity (Schenker, Hindemith, Messiaen, et al.). (Format: Lecture 3 Hours)

### MUSC 4221 (3.00 CR)
### PROSEMINAR IN MUSIC HISTORY

**Prereq:** MUSC 2211; or permission of the Department

This is a senior seminar on the formulation of critical concepts as they relate to specific styles and works, including questions of analytical systems, the formation of values, reception theory, aesthetics, and allied matters. It emphasizes the development of research, bibliographical, writing skills, and presentation skills. (Format: Seminar 3 Hours)

### MUSC 4311 (3.00 CR)
### SECONDARY METHODS

**Prereq:** MUSC 2111; or permission of the Department

This course examines several aspects of music instruction at the secondary level including choral, instrumental, and general music programs. It includes an introduction to the use of technology in music programs and classroom harmony instruments. (Format: Lecture 3 Hours)

### MUSC 4361 (3.00 CR)
### PIANO PEDAGOGY

**Prereq:** MUSC 1111; or permission of the Department

This course acquaints the student with the essential principles of creative keyboard teaching in an individual or group situation. It examines the historical development of keyboard playing along with the special problems confronting the teacher of today. A survey of teaching material includes the comparison and evaluation of approaches for children and older beginners. (Format: Lecture 3 Hours)(Exclusion: Any version of MUSC 4361 previously offered with a different title)

### MUSC 4501 (3.00 CR)
### APPLIED MUSIC VII

**Prereq:** 3 credits from MUSC 3511, 3581

This applied course involves individual weekly instruction in vocal and instrumental music and facilitates technical command, interpretive insight, and understanding of pedagogical procedures. It stresses the development of the ability to perform with competence and musical understanding while providing a comprehensive background of music of various periods, styles, and composers. (Format: Private Instruction 1 Hour)

### MUSC 4511 (3.00 CR)
### APPLIED MUSIC VIII

**Prereq:** MUSC 4501

This applied course continues the weekly instruction started in MUSC 4501, culminating in a juried performance at the end of the term. (Format: Private Instruction 1 Hour)

### MUSC 4581 (3.00 CR)
### APPLIED MUSIC VIII WITH SHARED RECITAL

**Prereq:** MUSC 4501; and permission of the Department, granted only after a successful recital application jury

This applied course continues the weekly instruction started in MUSC 4501, with the addition of the preparation and execution of a public recital program of approximately 30 minutes of music under the supervision of the student's Applied Music teacher. [Note 1: Students intending to register for MUSC 4581 must normally have achieved a grade of at least A- in MUSC 3511 or 3581, must have participated in two Collegia, or the equivalent, since enrolling in the B.Mus. program, and must pass a Recital Application Jury.](Format: Private Instruction 1 Hour)(Exclusion: MUSC 4511; MUSC 4591; any version of MUSC 4581 offered with a different title)

### MUSC 4591 (3.00 CR)
### APPLIED MUSIC VIII WITH FULL RECITAL

**Prereq:** MUSC 3581; MUSC 4501; and permission of the Department, granted only after a successful recital application jury

This applied course involves the preparation and execution of a public recital program of approximately 60 minutes of music under the supervision of the student's Applied Music teacher. [Note 1: Students intending to register for MUSC 4591 must normally have achieved a grade of at least A- in MUSC 3581, and must pass a Recital Application Jury.](Format: Private Instruction 1 Hour)(Exclusion: MUSC 4511; MUSC 4581; any version of MUSC 4591 offered with a different title)

### MUSC 4603 (3.00 CR)
### COLLABORATIVE KEYBOARD IV

**Prereq:** MUSC 3603; or permission of the Department

This course provides students with practical experience in collaborating with vocalists and instrumentalists, building on the skills learned in MUSC 3603. (Format: Private Instruction 0.5 Hours)

### MUSC 4613 (3.00 CR)
### CHAMBER MUSIC III

**Prereq:** MUSC 3613; and permission of the Department

This course provides practical experience in the art of chamber music performance. (Format: Private Instruction 1 Hour) [Note 1: The Department assigns instructors and approved repertoire (30 minutes minimum) in the term prior to the course being taught.]

### MUSC 4803 (3.00 CR)
### PERFORMANCE SEMINAR

**Prereq:** MUSC 2511; and permission of the Department

This course provides opportunities for performance and critical feedback. It considers performance-related issues such as stage presence, communication with an audience, auditions, performance anxiety, marketing, distribution of recorded music, programming, and collaboration with other musicians. (Format: Integrated Lecture and Lab 1.5 Hours) (Exclusion: MUSC 3993 Performance Seminar)

### MUSC 4950 (6.00 CR)
### INDEPENDENT STUDY IN MUSIC

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for MUSC 4950/51 more than once, provided the subject matter differs.]

### MUSC 4951 (3.00 CR)
### INDEPENDENT STUDY IN MUSIC

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for MUSC 4950/51/53 more than once, provided the subject matter differs.]

### MUSC 4990 (6.00 CR)
### HONOURS THESIS

The content of study is to be determined by the student in conjunction with one or more supervisors of the course. (Format: Independent Study/Thesis) [Note 1: Permission of the Department is required.]

### MUSC 4991 (3.00 CR)
### SPECIAL TOPIC IN MUSIC

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for MUSC 4991 more than once, provided the subject matter differs.]

## ONE CREDIT MUSIC ENSEMBLES:

Music ensembles focus on developing skills and practical experience in performance and include public performances. (Format: Experiential) [Note 1: Music ensembles are open to all university students regardless of major. With the exception of Choral Society, which does not require an audition, a successful audition is required for enrolment in any ensemble.]

**MUSC 1619-4619 WIND ENSEMBLE**
**MUSC 1629-4629 CHAMBER ORCHESTRA**
**MUSC 1639-4639 SYMPHONIC BAND**
**MUSC 1649-4649 JAZZ ENSEMBLE**
**MUSC 1659-4659 ELLIOTT CHORALE**
**MUSC 1669-4669 CHORAL SOCIETY**

**MUSC 1689-4689 SPECIAL ENSEMBLE**
**MUSC 2679-4679 OPERA WORKSHOP**

## RECITAL AND CONCERTS

Performances by students, faculty, and guest artists form an important part of the musical life of Mount Allison. The University Performing Arts Series brings to the campus top performers of international rank. Various music faculty ensembles provide an "in residence" group of performers. Frequent student recitals and Collegia Musica provide further enrichment as well as opportunities for students to gain valuable listening and performance experience.

# PHILOSOPHY

Philosophy is the endeavour to understand the basic questions that arise for us in our world, and to formulate this understanding in a critical manner. Traditionally, these questions have touched upon what can be known, what can be valued, what our own position is socially and individually- above all, how we can know what we think we know.

The Department believes that careful study of the great works of the past and present provides the best access to philosophical questions. Thus many of our courses concentrate the student on developments in the history of philosophy, from the sixth century B.C. to the twentieth century. Courses in logic, ethics, metaphysics, philosophy of science and the philosophy of mind examine special issues in these developments and are compared to the formulation of these same issues in Asian philosophy.

The study of philosophy invites critical and imaginative consideration of the questions themselves.

Only thereby can the student learn to appreciate their force, and the variety of responses to them. Since philosophical questions are deeply imbedded in the development of western civilization, one can study philosophy in conjunction with a wide range of other disciplines. Moreover, our students have found it a useful background for subsequent endeavours in fields such as law, civil service, medicine, theology, and further graduate study.

## Disciplinary B.A. Programs

### MINOR in Philosophy is 24 credits, earned as follows:

| | |
|---|---|
| 6 | from the Humanities 1600 Series |
| 6 to 12 | from Philosophy at the 2000 level |
| 6 to 12 | from Philosophy at the 3/4000 level, chosen in consultation with the Program Advisor |

### MAJOR in Philosophy is 60 credits earned as follows:

| | |
|---|---|
| 6 | from the Humanities 1600 Series |
| 3 | from PHIL 2611 |
| 3 to 9 | from Philosophy at the 2000 level |
| 12 | from PHIL 3000, 3011, 3101, 3221, 3231, 3240, 3250, 3301, 3311, and 3891 |
| 12 to 18 | from Philosophy at the 3/4000 level, including at least 6 at the 4000 level |
| 18 | credits from complementary courses in Arts and Letters and Humanities, chosen in consultation with the Program Advisor |

### HONOURS in Philosophy is 72 credits earned as follows:

| | |
|---|---|
| 42 | credits as in the first five lines of the Major, plus: |
| 3 | credits from PHIL 3631 |
| 6 | from PHIL 4990 |
| 21 | from Philosophy at the 3/4000 level, chosen in consultation with the Program Advisor |

## BASIC COURSES

The Humanities 1600-series is intended to provide an introduction to Humanities disciplines. These three-credit courses offered by the participating disciplines of Classics, History, Philosophy and Religious Studies are designed to acquaint beginning students with the methodologies typical of these disciplines and to familiarize them with the approaches taken, as well as the sorts of themes pursued and questions raised in these disciplines.

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### PHIL 1601 (3.00 CR)
### PLATO'S REPUBLIC

This course consists of a discussion of fundamental philosophical issues presented in Plato's Republic, such as the nature of morality, selfhood, God, reality, and knowledge. It may also use non-western sources to illuminate and evaluate central presuppositions and preoccupations of the western philosophical tradition that persist today. (Format: Lecture 3 Hours)(Exclusion: Any version of PHIL 1601 previously offered with a different title)

### PHIL 1611 (3.00 CR)
### SELF, SOCIETY, AND FREEDOM

This course investigates the history of ideas about the self in the western philosophical tradition from Plato to contemporary philosophy. Issues may include freedom and responsibility, otherness, the relationship between mind and body, the relationship between humans and animals, the impact of trauma or suffering on self- identity, and the existence or non-existence of the soul. (Format: Lecture 3 Hours)(Exclusion: Any version of PHIL 1611 previously offered with a different title)

### PHIL 1621 (3.00 CR)
### REASON, WILL, AND WORLD

This course introduces the study of philosophy by looking at some major thinkers in the Western philosophical tradition as well as the fundamental and enduring questions they raise about human beings and the world. Specific topics may include the nature of knowledge, desire, goodness, human flourishing, and free will. Students explore these themes to discover the relations between reason, the will, and the world. (Format: Lecture 3 Hours)(Exclusion: Any version of PHIL 1991 previously offered with the title The Story of Reason)

### PHIL 1651 (3.00 CR)
### THE CHANGING IMAGE OF NATURE

Our intellectual heritage is laced with shifting and conflicting attitudes towards "Nature" which impact everything from how we can come to know about nature, scientifically, to ethical implications for how human beings relate to other natural beings. This course will use readings from the history of western philosophy, especially from the early modern era, to assess the extent to which we have inherited these convictions or developed alternatives to them. (Format: Lecture 3 Hours)

### PHIL 1991 (3.00 CR)
### SPECIAL TOPIC IN PHILOSOPHY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHIL 1991 more than once, provided the subject matter differs.]

### PHIL 2301 (3.00 CR)
### INTRODUCTION TO FEMINIST PHILOSOPHY

**Prereq:** 3 credits from Humanities 1600 Series; or permission of the Department

This course provides an overview and introduction to the critique of traditional philosophy undertaken by feminist philosophers who argue that philosophy, along with other human endeavours, is shaped by the prejudices and assumptions of its practitioners. They do not reject philosophy as a discipline but explore new ways of doing philosophy. The aim of this course is to explore these new approaches in order to examine how feminist philosophers have combined the tools and methods of philosophy with their insights and values. (Format: Lecture 3 Hours)(Exclusion: Any version of PHIL 2991 previously offered with this title)

### PHIL 2401 (3.00 CR)
### INTRODUCTORY AESTHETICS

**Prereq:** 3 credits from Humanities 1600 Series; or permission of the Department

This course focuses on aesthetics and the philosophy of art, drawing on both the history of philosophy (including figures such as Plato, Aristotle, Kant, and Nietzsche) and on contemporary theories about art. Topics may include the problem of defining art, the role of art and the artist in society, the experience of the sublime, and the nature of aesthetic judgment and taste. (Format: Lecture 3 Hours) [Note 1: This course may count as 3 credits in Art History.]

### PHIL 2511 (3.00 CR)
### INTRODUCTORY PHILOSOPHY OF SCIENCE

**Prereq:** 3 credits from Humanities 1600 Series; or permission of the Department

Successful science claims to give us knowledge of what exists in the universe, and it claims to explain why what happens in a given localized system happens. The italicized words in the last sentence indicate philosophical assumptions within science which this course will explore. Based on historical cases, philosophical interpretations will be compared from logical positivism to Kuhnian paradigms, and the most recent critiques from social constructivism and feminism. (Format: Lecture 3 Hours)

### PHIL 2611 (3.00 CR)
### INTRODUCTORY LOGIC

This course introduces the study of logic, examining the basic structure of arguments, common reasoning fallacies, truth tables, and propositional logic. Further topics may include an introduction to quantification theory, syllogistic reasoning, Venn diagrams, Mill's methods, and issues central to inductive and deductive reasoning. (Format: Lecture 3 Hours)(Exclusion: Any version of PHIL 2611 previously offered with a different title; PHIL 2621)

### PHIL 2701 (3.00 CR)
### INTRODUCTORY ETHICS

**Prereq:** 3 credits from Humanities 1600 Series; or permission of the Department

An introduction to the history and philosophical problems of ethics in the western tradition. This will acquaint the student with a number of received traditions based on metaphysical, religious, rational, and pragmatic grounds, as well as introduce certain fundamental perennial problems of moral decision-making. (Format: Lecture 3 Hours)

### PHIL 2801 (3.00 CR)
### INTRODUCTION TO METAPHYSICS

**Prereq:** 3 credits from Humanities 1600 Series; or permission of the Department

An introduction to the study of metaphysics understood broadly as the study of the fundamental nature of reality. This will include the study of various themes including the nature of substance, divinity, causation, appearance and reality, the one and the many, mind and matter. (Format: Lecture 3 Hours)

### PHIL 2991 (3.00 CR)
### SPECIAL TOPIC IN PHILOSOPHY

**Prereq:** 3 credits from Humanities 1600 Series; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHIL 2991 more than once, provided the subject matter differs.]

### PHIL 3000 (6.00 CR)
### ANCIENT PHILOSOPHY

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course examines the philosophical developments in the Ancient era within the thought of the Pre-Socratics, Plato, and Aristotle. Topics may include themes from metaphysics, epistemology, moral and political philosophy and aesthetics. Format: Lecture 3 Hours)

### PHIL 3011 (3.00 CR)
### HELLENISTIC AND ROMAN PHILOSOPHY

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course examines the philosophical developments in the late Ancient and Roman eras within the various schools of the Epicureans, Stoics, Skeptics, Cynics, Romans, and Neoplatonists. Themes may include the nature and possibility of knowledge, the ethics of happiness, the problem of free will, and the nature of the Divine. (Format: Lecture 3 Hours)

### PHIL 3101 (3.00 CR)
### MEDIAEVAL PHILOSOPHY

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course examines themes and developments in the mediaeval monotheistic tradition of philosophy (ca. 350-1400 CE). The enduring philosophical topics discussed may include knowledge of God, universals, the nature of the human person, freedom of the will, the scope of philosophy, and the relationship between faith and reason. (Format: Lecture 3 Hours)

### PHIL 3221 (3.00 CR)
### MODERN PHILOSOPHY: THE RATIONALIST TRADITION

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course investigates the thought of Descartes, Spinoza, and Leibniz, the leading seventeenth-century continental thinkers who formulated the great a priori systems. The capacity and function of human reason fully to understand the world is a theme common to these thinkers; it constitutes one of the major concerns of the course, a concern balanced by investigation of why these systems have reached such diverse answers to the substantive issues of how the world is to be understood. (Format: Lecture 3 Hours)

### PHIL 3231 (3.00 CR)
### MODERN PHILOSOPHY: THE EMPIRICIST TRADITION

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course investigates the thought of Locke, Berkeley, and Hume, the leading English-language thinkers of the seventeenth and eighteenth centuries. These authors seem to be reacting to the a priori tradition examined by Philosophy 3221. But they also make claims that are not merely reactive, and the course examines the degree to which they propose a coherent interpretation of the extent and the limitations of human understanding. (Format: Lecture 3 Hours)

### PHIL 3240 (6.00 CR)
### KANT

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course examines Kant's Critical project, including the arguments for the existence of God, freedom, and immortality to which it led. This necessitates close study of Critique of Pure Reason, and may include other texts such as Groundwork for the Metaphysics of Morals, Critique of Judgment, Religion Within the Bounds of Mere Reason, and selections from Kant's social and political philosophy. (Format: Lecture 3 Hours)(Exclusion: PHIL 4200)

### PHIL 3250 (6.00 CR)
### NINETEENTH-CENTURY GERMAN PHILOSOPHY

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course provides an overview of the philosophical revolution that followed in the wake of Kant, often referred to as Germany's counterpart to the French Revolution. This strain of philosophy challenged the traditional understanding of the relationship of mind and world and the nature of reality itself. The course begins with J.G. Fichte's late eighteenth-century attempt to carry on the spirit of Kantian critical philosophy by grounding it in the radical freedom of the 'I' before considering such figures as the early German Romantics, Schelling, Hegel, Kierkegaard, and Nietzsche. (Format: Lecture 3 Hours)

### PHIL 3301 (3.00 CR)
### ANALYTIC PHILOSOPHY IN ORIGIN

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course is an historical introduction to the major philosophers and movements in the analytic and Anglo-American philosophical traditions from the turn of the twentieth century to 1950. Topical focus is on language, logic, ethics, and attempts to change the conception of metaphysics and to diminish the scope of philosophy. Authors studied may include Bradley, James, Frege, Russell, Moore, Dewey, Wittgenstein, Schlick, Carnap, and Ayer. (Format: Lecture 3 Hours)(Exclusion: PHIL 3991 Analytic Philosophy: Origins to 1950)

### PHIL 3311 (3.00 CR)
### ANALYTIC PHILOSOPHY IN PROGRESS

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level excluding PHIL 2611; or permission of the Department

This course is an historical and topical introduction to the major figures and trends in the analytic philosophical tradition from 1950 to the present day, with special attention to the various ways philosophy comes to be presented and practiced. Topical focus may include ordinary language philosophy, the attack on logical positivism, the blending of empiricism and pragmatism, naturalism, and the re-emergence of work in metaphysics and ethics. Authors studied may include Wittgenstein, Ryle, Austin, Searle, Kripke, Putnam, Davidson, Lewis, Anscombe, Foot, Sellars, Rorty, and Brandom. (Format: Lecture 3 Hours)(Exclusion: PHIL 4611 Analytic Philosophy: 1950 to Present; PHIL 3991 Analytic Philosophy: 1950 to Present)

### PHIL 3511 (3.00 CR)
### PHILOSOPHY OF THE LIFE SCIENCES

**Prereq:** PHIL 2511; B.Sc. students already doing 3/4000 level work in their own field, and students with declared programs in Environmental Science, Environmental Studies, or Cognitive Science will be admitted; or permission of the Department.

In recent decades the philosophical assumptions underlying the life sciences have been seen increasingly as distinct from the physical sciences. This course will examine this difference as well as the linkage between them, then turn to the philosophical issues within evolutionary theory, the notion of species and problems of classification, persistent controversies surrounding sociobiology, genetic control, use of animals in research, and the application of bioethics. (Format: Lecture 3 Hours)

### PHIL 3631 (3.00 CR)
### SYMBOLIC LOGIC

**Prereq:** PHIL 2611; or permission of the Department

This is a course in quantificational logic, concentrating on the nature of logic, methods of deduction, quantification theory, and the logic of relational statements. (Format: Lecture 3 Hours)

### PHIL 3711 (3.00 CR)
### BIOMEDICAL ETHICS

**Prereq:** PHIL 2701; or permission of the Department

This course will consist of the examination of a number of contemporary issues, such as gene therapy, abortion, reproductive technologies, euthanasia, HIV testing and confidentiality, organ retrieval, and advanced directives. In a framework of health, we will discuss larger philosophical questions such as: the possibility of assigning and comparing values, the nature of the human self, the possibilities of agency and responsibility, duties to society, gender and health, the meanings of technology, and social justice. While the focus of this course is not on ethical theory, we will make use of classical moral theories and principles to frame our analyses. (Format: Lecture 3 Hours)

### PHIL 3721 (3.00 CR)
### ENVIRONMENTAL ETHICS

**Prereq:** PHIL 2701; or permission of the Department

After reviewing traditional attitudes toward the environment, this course will explore recent attempts to "apply" ethical analysis to such problems as pollution and conservation. We will pay particular attention to the ways in which problems of preservation challenge us to extend our traditional norms and values. To what extent, for example, does growing sensitivity to our natural environment require of us a new "environmental ethic" and oblige us to recognize "animal rights"? (Format: Lecture 3 Hours)

### PHIL 3731 (3.00 CR)
### PHILOSOPHY OF LAW

**Prereq:** 3 credits from PHIL at the 2000 level; or permission of the Department

This course introduces central issues in the philosophy of law. Topics may include the relation of law and morality, the rule of law in relation to coercion and liberty, the nature of judicial decision-making, the origin and justification of legal systems, and theories of the nature and function of law from the competing claims of legal positivism, formalism, and realism. (Format: Lecture 3 Hours)

### PHIL 3891 (3.00 CR)
### INDIAN PHILOSOPHY

**Prereq:** 3 credits from PHIL at the 2000 level; or permission of the Department

A study of selected primary sources in the Indian philosophical tradition, from the Vedas and Upanishads to the recent work of thinkers like S. Radhakrishnan. Topics usually include the nature of reality, moral obligation, Divinity, selfhood and freedom, the philosophy of love, and various social and political issues. (Format: Lecture 3 Hours) [Note 1: This course is cross-listed as RELG 3891 and may therefore count as three credits in either discipline.]

### PHIL 3991 (3.00 CR)
### SPECIAL TOPIC IN PHILOSOPHY

**Prereq:** 3 credits from PHIL; 3 credits from PHIL at the 2000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHIL 3991 more than once, provided the subject matter differs.]

### PHIL 4001 (3.00 CR)
### SELECTED TOPICS IN THE HISTORY OF PHILOSOPHY

This course involves careful study of one or more texts and themes in the History of Philosophy from antiquity to the twentieth century, depending on the interests and discretion of the instructor. [Note 1: Permission of the Department is required. Note 2: Students may register for PHIL 4001 more than once, provided the subject matter differs.](Format: Seminar 3 Hours)(Exclusion: Any version of PHIL 4101 in which the same material was covered)

### PHIL 4111 (3.00 CR)
### SELECTED TOPICS IN MORAL, SOCIAL AND POLITICAL PHILOSOPHY

This course examines closely one or more themes and texts in Moral, Social, and Political Philosophy, depending on the interests and discretion of the instructor. Topics include contemporary virtue theory, deontological ethics, theories of recognition, multiculturalism, and cultural criticism. (Format: Seminar 3 Hours) [Note 1: Permission of the Department is required. Note 2: Students may register for PHIL 4111 more than once, provided the subject matter differs.]

### PHIL 4211 (3.00 CR)
### SELECTED TOPICS IN CONTINENTAL PHILOSOPHY

This course explores the variety of twentieth-century philosophical schools stemming from the French and German traditions. Topics may focus on the phenomenology of Husserl and Heidegger, the existentialism of Marcel and Sartre, Levinas' phenomenological ethics, the hermeneutic turn in Gadamer and Ricoeur, Derrida's deconstructionism, or Foucault's post-structuralism. (Format: Lecture 3 Hours) [Note 1: Permission of the Department is required. Note 2: Students may register for PHIL 4211 more than once, provided the subject matter differs.]

### PHIL 4511 (3.00 CR)
### PHILOSOPHY OF MIND

This course studies the philosophical arguments that attempt to resolve the real nature of mental states vis à vis the physical states of the brain. Topics include how it is we have knowledge of our own sensations, beliefs, desires, and consciousness; how we gain knowledge of other minds; and the more general questions of how we should best proceed to resolve these issues. (Format: Lecture 3 Hours)[Note 1: Permission of the Department is required.]

### PHIL 4611 (3.00 CR)
### SELECTED TOPICS IN ANALYTIC PHILOSOPHY

This is an examination of contemporary themes in the analytic tradition of philosophy. Topics may include truth, logicism, the nature of reference, skepticism, the realism/anti-realism debate, historicism and the collapse of positivism or contextualism. (Format: Lecture 3 Hours)[Note 1: Permission of the Department is required.]

### PHIL 4950 (6.00 CR)
### INDEPENDENT STUDY IN PHILOSOPHY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for PHIL 4950/51 more than once, provided the subject matter differs.]

### PHIL 4951 (3.00 CR)
### INDEPENDENT STUDY IN PHILOSOPHY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for PHIL 4950/51 more than once, provided the subject matter differs.]

### PHIL 4990 (6.00 CR)
### HONOURS TOPIC

The content of study is to be determined by the student in conjunction with one or more supervisors of the course. The format of the course is described in the Departmental Handbook. (Format: Independent Study/Thesis) [Note 1: Permission of the Department is required.]

### PHIL 4991 (3.00 CR)
### SPECIAL TOPIC IN PHILOSOPHY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHIL 4991 more than once, provided the subject matter differs.]

# PHILOSOPHY, POLITICS, AND ECONOMICS

The PPE program offers students the opportunity of a multidisciplinary immersion in the problems of action and reflection which shape the human world. Philosophy, politics, and economics share in common a foundational concern with the abundant and widely varying ideas of what is good for human beings and the challenges that arise from attempts at realizing and reconciling these different ideas of the good in practice. Each discipline develops this concern from a conceptually and historically distinct standpoint.

The study of philosophy teaches students to reflect on fundamental questions about nature, human experience, and our responsibility to others. By working with classic texts from the history of philosophy, and key problems within contemporary philosophy, students will catalogue their emerging philosophical commitments to cultivate a broad view of human experience and values, and to develop their facility with rational and critical engagement.

The study of economics consists of examining the decisions of participants in economic systems to discover regularities of behaviour in the expectation that through this better understanding society will be able to remedy undesirable results and achieve better ones. Such a study includes looking at the historical development of modern economies and the evolution of thinking about economic systems; examining intended and unintended outcomes of economic policies; and revealing the economic consequences of participation in trade, exchange, or employment relationships.

The study of politics is concerned with the nature and workings of power, state and government; the rights and duties of citizenship; the limits and possibilities of collective political action; and the social, economic, and cultural formations that shape the life of the political community. The scope of inquiry is local, national, and international; it includes the empirical analysis of individuals, groups, institutions and processes as well as the investigation of longstanding philosophical questions concerning human nature, freedom, democracy, and justice.

The PPE program brings these three areas of study together in one multidisciplinary program designed to balance prescriptive dimensions of the theoretical enterprise with descriptive ones that are grounded in empirical considerations, such that graduates of the program are broadly educated to consider complex contemporary concerns.

## Multidisciplinary B.A. Programs

### MAJOR in PPE is 66 credits earned as follows:

**Philosophy Component (24 credits)**

3 from PHIL 1601, 1611, 1621, 1651
6 from PHIL 2611, 2701
6 from PHIL 3000, 3011, 3101, 3221, 3231, 3240, 3250, 3301, 3311, 3891
6 from 3711, 3721, 3731, PHIL 4000 level
3 from PHIL 4000 level

**Politics Component (21 credits)**

3 from POLS 1001
6 from POLS 2001, 2101, 2211, 2221, 2301
6 from POLS 3001, 3011, 3031, 4000, 4011
6 from either POLS 31/41, 32/42, or 33/43 series

**Economics Component (21 credits)**

9 from ECON 1001, 1011, 2701
3 from MATH 2311
6 from ECON 3/4000 level
3 from ECON 4001, 4011, 4521

### HONOURS in PPE is 84 credits with a disciplinary emphasis on Philosophy, Politics, or Economics earned as follows:

**A. Philosophy Emphasis**

*Core*

6 from PHIL 1601, 1611, 1621, 1651
6 from PHIL 2611, 2701
3 from PHIL 2301, 2511
12 from PHIL 3000, 3011, 3101, 3221, 3231, 3240, 3250, 3301, 3311, 3891
9 from PHIL 3511, 3631, 3711, 3721, 3731
6 from PHIL 4000 level

*Economics*

9 from ECON 1001, 1011, 2701
3 from MATH 2311
6 from ECON 3/4000 level
3 from ECON 4001, 4011, 4521

*Politics*

3 from POLS 1001
6 from POLS 2001, 2101, 2211, 2221, 2301
6 from POLS 3001, 3011, 3031, 4000, 4011
6 from either POLS 31/41, 32/42, or 33/43 series

**B. Politics Emphasis**

*Core*

3 from POLS 1001
6 from POLS 2001, 2101, 2211, 2221, 2301
33 from three of the POLS 3/4000 series including:
a) at least 9 credits from the POLS 30/40 series
b) at least 9 credits from one of the POLS 31/41, 32/42, or 33/43 series
c) at least 9 credits from a second of the POLS 31/41, 32/42, or 33/43 series

*Note: at least 6 of the 33 credits must be at the 4000 level*

*Economics*

9 from ECON 1001, 1011, 2701
3 from MATH 2311
6 from ECON 3/4000 level
3 from ECON 4001, 4011, 4521

*Philosophy*

3 from PHIL 1601, 1611, 1621, 1651
6 from PHIL 2701, 2611
6 from PHIL 3000, 3011, 3101, 3221, 3231, 3240, 3250, 3301, 3311, 3891
6 from PHIL 3711, 3721, 3731, PHIL 4000 level

**C. Economics Emphasis**

*Core*

9 from ECON 1001, 1011, 2701
3 from MATH 2311
12 from ECON 2001, 2011, 2101, 2111
6 from MATH 1151, 2221; or MATH 1111, 1121
3 ECON 3/4000 level
3 ECON 4001, 4011, 4521
6 ECON 4801, 4811, 4700

*Note: The Department of Economics recommends 12 credits from ECON 4801, 4811, 4700 for students intending to pursue graduate work in Economics.*

*Philosophy*

3 from PHIL 1601, 1611, 1621, 1651
6 from PHIL 2701, 2611
6 from PHIL 3000, 3011, 3101, 3221, 3231, 3240, 3250, 3301, 3311, 3891
6 from PHIL 3711, 3721, 3731, PHIL 4000 level

*Politics*

3 from POLS 1001
6 from POLS 2001, 2101, 2211, 2221, 2301
6 from POLS 3001, 3011, 3031, 4000, 4011
6 from either POLS 31/41, 32/42, or 33/43 series

**Note:** Students who have declared their intention to complete a Major or Honours Degree in PPE must consult with a Program Advisor to determine an appropriate group of courses before registering for their third and fourth years of study. Approval of the Program Advisor will be required before the student registers for courses.

**Note:** Students who have declared their intention to complete a Major or Honours Degree in PPE will write an Integrative Essay in one of their 4000 level courses in Philosophy, in Politics, or in Economics which demonstrates their capacity to draw on fundamental concepts from all three contributing disciplines of the PPE Program. The faculty member teaching the course will evaluate the Integrative Essay. Two faculty members in the two other contributing disciplines will be available for consultation, and will be designated by faculty member teaching the course in consultation with the students.

# PHYSICS

Physics seeks to describe the nature of the physical world. The most fundamental of the natural sciences, it forms an essential part of any serious program of study in any branch of science, and indeed, to an increasing degree in the modern world, it is important in any well-balanced curriculum for the non-scientist as well.

In the undergraduate program the development of fundamental concepts and mathematical formulation proceeds simultaneously in a selected series of courses in physics and mathematics, from the elementary ideas of classical mechanics through modern relativistic, quantum and nuclear theories.

Whether the student wishes to prepare for more advanced study in physics itself; for a career in applied areas such as photonics, materials science, or biomedical engineering; for a career in such fields as astronomy, space research, or oceanography; or simply wishes to be informed in an important area of scientific thought, he/she will be able to make an appropriate choice of courses from the list.

## Disciplinary B.Sc. Programs

### MINOR in Physics is 24 credits earned as follows:

3 from PHYS 1041, 1051
3 from MATH 1111
3 from PHYS 1551
15 from MATH 1121 or Physics, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor.

**Note:** Only one of PHYS 1001, 1021, 1031 and 1401 can be used on the Physics Minor

**Note:** Students who complete the Minor in Applied Physics may not complete this Minor

### MINOR in Applied Physics is 24 credits earned as follows:

3 from PHYS 1041, 1051
6 from PHYS 1551, 2801
3 from MATH 1111
12 from PHYS 1401, 3321, 3361, 3581, 3701, 3751, COMP 1631, 1731, MATH 1121, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor

### MINOR in Astronomy is 24 credits earned as follows:

9-12 from PHYS 1001, 1021, 1031, 3001, 3021
3 from PHYS 1041, 1051
9-12 from BIOL 2801, 3021, CHEM 2111, 2211, 3251, GENS 1401, 3451, PHIL 1651, 2511, PHYS 3701, 3811, 4311, 4411, 4851, or maximum of 3 credits from BIOL 2701, COMP 1731, GENS 2431, MATH 2311, PHYS 2801

Note: Many of these courses have one or more prerequisite courses. Students should plan their sequence of courses in consultation with the Program Advisor.

**Note:** At least 6 credits need to be from the 3/4000 level for this Minor.

### MAJOR in Physics is 63 credits earned as follows:

6 from PHYS 1051, 1551
6 from CHEM 1001, 1021
3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011
3 from COMP 1631, MATH 2221
12 from MATH 1111, 1121, 2111, 2121
21 from PHYS 2251, 2801, 3101, 3451, 3701, 3811, 4411
12 from Physics with at least 9 at the 3/4000 level, chosen in consultation with the Program Advisor

**Note:** Students pursuing a Major in Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department

### HONOURS in Physics is 87 credits earned as follows:

51 credits as in the first six lines of the Major
6 from PHYS 4990
6 from PHYS 3201, 3821
3 from MATH 3141
3 from MATH 2221, 3131, 3161, 3221, 3411
3 from Physics at any level, chosen in consultation with the Program Advisor
3 from Physics at the 3/4000 level, chosen in consultation with the Program Advisor
6 from Physics at the 4000 level, chosen in consultation with the Program Advisor
6 from Physics or Mathematics at the 3000/4000 level, chosen in consultation with the Program Advisor

**Note:** Students pursuing Honours in Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department

## Interdisciplinary B.Sc. Program

### B.Sc. HONOURS in Mathematics and Physics is 90 credits earned as follows:

3 from BIOL 1001, BIOL 1501, BIOC 1001, GENS 1401, PSYC 1001 or PSYC 1011
18 from MATH 1111, 1121, 2111, 2121, 2211, 2221
3 from COMP 1631
6 from CHEM 1001, 1021
12 from PHYS 1051, 1551, 2251, 2801
3 from MATH/PHYS 3451
9 from MATH 3111, 3211, 3311
6 from MATH 3141, 3161
6 from MATH 3121, 3131, 3151, 3221, 3231, 3321, 3411, 3531, 4111, PHYS 4101, 4201, 4311, 4831, 4851, 4911; only 3 credits may be selected from the listed Physics courses
18 from PHYS 3101, 3201, 3701, 3811, 3821, 4411
6 from PHYS 4990

**Note:** Students pursuing Honours in Mathematics and Physics may be allowed to substitute PHYS 1041 for PHYS 1051 with permission of the Department

## PHYSICS COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

**Note:** The following courses are subject to an instructional supply fee - PHYS 1021, 1031, 1041, 1051, 1551, 2251, 2801, 3001, 3101, 3701, 3811.

#### PHYS 1021 (3.00 CR)
#### SOLAR SYSTEM ASTRONOMY

This course introduces observational and solar system astronomy. Topics include observational astronomy, celestial mechanics, solar system patterns, theories of origin, radiometric dating, processes which transform planet surfaces, planetary atmospheres, comets, asteroids, meteoroids, and the search for life beyond Earth. It considers extrasolar planetary systems in the context of theories of solar system formation. [Note 1: In addition to daytime lab periods all students will need to be present at a number of night time observing periods at the university observatory.] (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: PHYS 1001)

#### PHYS 1031 (3.00 CR)
#### STARS, GALAXIES AND THE UNIVERSE

This course introduces stellar and galactic astronomy as well as cosmology. Topics include optics and telescopes, atomic structure and spectra, the sun, stellar types and evolution, stellar remnants (black holes, neutron stars, and white dwarfs), quantum and relativistic ideas, galaxies, and dark matter and energy. [Note 1: In addition to daytime lab periods all students will need to be present at a number of night time observing periods at the university observatory.] (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: PHYS 1001)

#### PHYS 1041 (3.00 CR)
#### PHYSICS FOR THE LIFE SCIENCES

The course introduces and describes from a Physics perspective the many physical processes involving living organisms. The course is algebra-based and covers biomechanics, kinesiology, energy and the body, fluid flow, electrical signaling, electrocardiography and electroencephalography, sound and hearing, light and vision, microscopy, and imaging of brain function. [Note 1: This course is designed for students planning to major in a life science.] (Format: Integrated Lecture/Collaborative Learning/Laboratory 6 Hours) (Exclusion: PHYS 1051; PHYS 3521)

### PHYS 1051 (3.00 CR)
### GENERAL PHYSICS I

This algebra based introductory physics course will cover kinematics, dynamics, work and energy, momentum in one dimension, fluid mechanics, waves and sound, DC circuit electricity, geometrical and physical optics, and an introduction to modern physics. This course provides a basic knowledge of the concepts of physics needed in all sciences. Students enrolling in Physics 1051 should normally have completed a university preparatory level course in Mathematics. (Format: Integrated Lecture/Collaborative Learning/Laboratory, 6 Hours) (Exclusion: PHYS 1041)

### PHYS 1401 (3.00 CR)
### THE PHYSICS OF MUSIC AND SOUND

This course explores various aspects of music production, sound transmission and perception. The topics include simple harmonic motion, waves and sound, standing waves, spectral analysis, human ear and voice, auditorium acoustics, and woodwind, brass, and percussion instruments. It also introduces mathematical analysis. (Format: Integrated Lecture and Laboratory 3 Hours)

### PHYS 1551 (3.00 CR)
### GENERAL PHYSICS II

**Prereq:** MATH 1111; 3 credits from PHYS 1041, 1051; or permission of the Department

This calculus-based course introduces further issues in classical and modern physics. Topics include time-dependent acceleration, gravitation, rotational motion, angular momentum, simple harmonic motion, electric forces, fields and potentials, magnetism, and electromagnetic induction. The course also introduces special relativity, nuclear reactions, particle physics, and cosmology. (Format: Integrated Lecture and Laboratory, 6 Hours)

### PHYS 1991 (3.00 CR)
### SPECIAL TOPIC IN PHYSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHYS 1991 more than once, provided the subject matter differs.]

### PHYS 2251 (3.00 CR)
### CLASSICAL WAVES

**Prereq:** PHYS 1551; MATH 1121; or permission of the Department

In this course the study of free, forced and damped harmonic oscillator is followed by a treatment of discrete coupled oscillators in one dimension. This is then generalized to the study of traveling and standing waves in continuous media. Ideas of Fourier components of signals are introduced. A number of examples will be taken from physical optics, and the topics in this course provide the theoretical basis for understanding modern photonic devices. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PHYS 2801 (3.00 CR)
### DATA ACQUISITION AND ANALYSIS

**Prereq:** MATH 1111; 3 credits from PHYS 1041, 1051; or permission of Department

This course provides techniques and software tools that assist in the use of computers to enhance work in science. It introduces basic methodology for data manipulation such as error analysis, statistical analysis of data, linear regression, graphing, aspects of simulation, digitization, interfacing and data acquisition. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PHYS 2991 (3.00 CR)
### SPECIAL TOPIC IN PHYSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHYS 2991 more than once, provided the subject matter differs.]

### PHYS 3001 (3.00 CR)
### ASTROPHYSICS

**Prereq:** PHYS 1551; 3 credits from PHYS 1001, 1031; or permission of the Department

This course examines issues in stellar, galactic and extra-galactic astrophysics. Topics covered include celestial co-ordinate systems, astronomical luminosity relationships, astrophysical instrumentation, stellar spectra, Hertzsprung-Russell diagrams, stellar evolution, protostars, stellar deaths (white dwarfs, neutron stars, stellar black holes), energy processes and transport in stars, stability and variable stars, the structure of our galaxy, galaxy types and evolution, and energetic sources such as quasi-stellar objects. (Format: Lecture 3 Hours, Laboratory 3 Hours) [Note 1: In addition to daytime lab periods all students will need to be present at a number of night time observing periods at the university observatory.]

### PHYS 3021 (3.00 CR)
### LIFE IN THE UNIVERSE

**Prereq:** Second-year standing; 3 credits from PHYS 1001, 1021; or permission of the Department

This course will examine issues concerning the origin, evolution and survival of life in the universe from an astrophysical perspective. Topics covered include cosmology and the origin and evolution of the universe, solar system origin, detection of extrasolar planets, what is life and what conditions are necessary to sustain it, searches for life in the solar system, habitable zones, complex organics in extraterrestrial materials, delivery of organics to the primordial and current Earth and other planets, astrophysical threats to life on Earth, life in space, and searches for extraterrestrial intelligence. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PHYS 3101 (3.00 CR)
### ELECTRICITY AND MAGNETISM

**Prereq:** PHYS 1551; MATH/PHYS 3451; MATH 2111; MATH 2121; or permission of the Department

This course will cover vector analysis, differential and integral calculus as well as solutions of the Poisson and Laplace equations for different electrostatic problems. Certain special techniques such as method of images, separation of variables and multipole expansion are then introduced. Magnetostatics and electric and magnetic fields in matter are also examined leading to the conclusion of this course where Maxwell equations are integrated and applied. (Format: Lecture 3 Hours, Laboratory/Problem Solving 3 Hours)

### PHYS 3201 (3.00 CR)
### STATISTICAL MECHANICS

**Prereq:** PHYS 2251; MATH 2111; or permission of the Department

This course examines in detail the Maxwell- Boltzmann Bose-Einstein and Fermi-Dirac distributions and the conditions and physical systems under which they apply. (Format: Lecture 3 Hours)

### PHYS 3231 (3.00 CR)
### ADVANCED PHYSICAL CHEMISTRY

**Prereq:** CHEM 2211 or 6 credits from PHYS 3701 and PHYS 3821 or permission of the Department

This course examines physical and chemical applications of kinetics, including those related to reaction mechanisms and dynamics. Specific topics include: experimental methods in kinetics; introduction to quantum mechanics needed to understand chemical kinetics; the potential energy surface (PES) for a chemical reaction and the effects of different features of the PES on the rate of chemical reactions; the effects of zero point energy and quantum tunneling on reaction rates. [Note 1: This course is cross-listed with CHEM 3231 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: CHEM 3221; any version of CHEM 3231 previously offered with a different title)

### PHYS 3321 (3.00 CR)
### ANALOG ELECTRONICS AND SIGNAL PROCESSING

**Prereq:** PHYS 1551; PHYS 2801; or permission of the Department

This is a course in analog electronics and in analog signal processing, and would be valuable both for those planning to go on in technical careers and for scientists who wish to develop tools for the collection and analysis of data. Topics include impedance matching considerations, semiconductor physics, pn junction diodes, AC circuit analysis, passive filter designs, DC power supply construction including regulation, junction and field effect transistors and transistor amplifier circuits, operational amplifiers, active filter designs, signal conditioning circuits such as Schmitt trigger, modulation and demodulation, noise (sources, frequency characteristics, and control measures), integrating sensors and electronics, practical issues in electronics, and an introduction to the photonic transition. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PHYS 3361 (3.00 CR)
### DIGITAL SIGNAL PROCESSING AND ELECTRONICS

**Prereq:** COMP 1631; PHYS 1551; or permission of the Department

This course introduces students to both digital electronic circuits and digital signal processing, and would be valuable both for those planning to go on in technical careers in computer science or in physics, and for scientists who wish to develop tools for the collection and analysis of data. Topics to be covered include digital logic gates, Boolean algebra, counting circuits, digital signal conditioning, sampling considerations such as the Nyquist criterion, analog to digital and digital to analog conversion, Fourier Transform theory and application as FFT, correlation and convolution, digital filtering using finite impulse response and infinite impulse response circuits including the ztransform and filter design, and digital image processing including two dimensional FFT techniques, microprocessors, microcontrollers and digital signal processing integrated circuits. (Format: Lecture 3 Hours, Laboratory 3 Hours) [Note 1: This course is cross-listed with COMP 3361 and may therefore count as three credits in either discipline.]

### PHYS 3451 (3.00 CR)
### METHODS OF MATHEMATICAL PHYSICS

**Prereq:** MATH 2111; 3 credits from MATH 2121, PHYS 2251; or permission of the Department

This course provides students with a selection of mathematical skills needed in more advanced physics courses. It introduces frequently utilized mathematical methods in theoretical physics in close connection with physics applications. Topics include vector and tensor analysis, use of special functions, operators and eigenvalue problems. Fourier analysis, and complex variable techniques. (Format: Lecture 3 Hours, Laboratory 3 Hours) [Note 1: This course is cross-listed with MATH 3451 and may therefore count as three credits in either discipline.]

### PHYS 3581 (3.00 CR)
### MEDICAL PHYSICS

**Prereq:** PHYS 1551; or permission of the Department

This course considers fundamental concepts of ionizing radiation, diagnostic applications of medical physics, and therapeutic applications of medical physics. Diagnostic topics include x-rays, computed tomography, magnetic resonance imaging, positron emission tomography, and nuclear medicine. Therapeutic topics include radiation generators, absorbed dose calculations, dose measurement, and brachytherapy. (Format: Integrated Lecture and Laboratory 3 Hours)[Note 1: This course is intended both for physics students who are considering a career in medical physics or in the field of medicine, and for students in other programs with similar interests.]

### PHYS 3701 (3.00 CR)
### THERMODYNAMICS

**Prereq:** PHYS 2801; MATH 2111; or permission of the Department

The objective of the course is to develop a clear and broad understanding of the First and Second Law of Thermodynamics, with application to a wide range of problems. Topics include: the general energy equation, First Law, Second Law, entropy, limiting-cycle efficiencies, irreversibility and availability, steam power plant, refrigeration and gas engine applications. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PHYS 3751 (3.00 CR)
### ENERGY PRODUCTION AND THE ENVIRONMENT

**Prereq:** PHYS 1551; CHEM 1021; or permission of the Department

This course examines different aspects of energy harvesting, storage, and transmission with particular emphasis on the environmental impacts, sustainability, and development of renewable energy resources. It also introduces modern technologies based on the development of novel materials. Specific technologies and topics may include: wind power, photovoltaic generation, solar energy, nuclear fission, and fusion, hydroelectric, combustion based fuel generation, tidal energy and fuel cells. [Note 1: This course is cross-listed with CHEM 3751 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of PHYS 3751 previously offered with a different title)

### PHYS 3811 (3.00 CR)
### MODERN PHYSICS

**Prereq:** PHYS 2251; or permission of the Department

This course considers the two major revolutionary ideas of modern physics, quantum mechanics and special relativity. It considers Lorentz transformations, length contraction and time dilation, relativistic mass and momentum, including the fourvector relativistic notation. It also examines evidence for quantization along with early models for atoms and discusses De Broglie's hypothesis for the matter wave. Other topics include the Schrodinger equation and its solutions for some usual systems. The course ends with a look at the three dimensional systems and a discussion of angular momentum in quantum mechanics. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: Any version of PHYS 3811 previously offered with a different title)

### PHYS 3821 (3.00 CR)
### QUANTUM MECHANICS

**Prereq:** PHYS 3811; MATH/PHYS 3451; or permission of the Department

This course is an introduction to formal quantum mechanics: the matrix formulation, harmonic oscillator, perturbation theory, two-state systems, multiparticle systems, and an introduction to the general theory of angular momentum. (Format: Lecture 3 Hours) (Exclusion: Any version of PHYS 3821 previously offered with a different title)

### PHYS 3991 (3.00 CR)
### SPECIAL TOPIC IN PHYSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHYS 3991 more than once, provided the subject matter differs.]

### PHYS 4101 (3.00 CR)
### ELECTROMAGNETIC THEORY

**Prereq:** PHYS 3101; 3 credits from PHYS 2251, MATH 2121; or permission of the Department

An advanced treatment of static and time-dependent electric and magnetic fields in materials. Particular attention will be given to wave solutions of Maxwell's equations for spatial dependent media such as wave guides. (Format: Lecture 3 Hours)

### PHYS 4201 (3.00 CR)
### SOLID STATE PHYSICS

**Prereq:** PHYS 2251; or permission of the Department

This course studies the various quantized models used to describe the thermal, electrical, optical and electromagnetic properties of solids. It also analyses conductors, semi-conductors and insulators. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PHYS 4311 (3.00 CR)
### MODERN OPTICS

**Prereq:** PHYS 2251; PHYS 2801; PHYS 3101; or permission of the Department

This course provides an advanced treatment of a number of topics in modern optics with particular emphasis on topics of industrial and research importance. A brief treatment of geometric optics will concentrate on the design of optical systems. Topics in physical optics may include dispersion in materials, production and properties of polarized light, interference, diffraction in the Fresnel and Fraunhofer limits, Fourier optics, holography and an introduction to quantum optics. Applications of this theoretical background will be made in such areas as fibre-optic transmission, photonic devices, thin film coatings, and electrochromic devices. There will also be some considerations of electro-optical devices such as lasers, charge coupled device detectors, image intensifiers and photodiodes. (Format: Lecture 3 Hours, Laboratory 3 Hours) (Exclusion: PHYS 4401)

### PHYS 4411 (3.00 CR)
### CLASSICAL MECHANICS AND RELATIVITY

**Prereq:** PHYS 3811; MATH/PHYS 3451; or permission of the Department

This course covers three-dimensional dynamics of both particles and rigid bodies using various coordinate systems. The course focuses on an introduction to Lagrangian and Hamiltonian formalisms, followed by application of these approaches to problems in constrained motion. Other topics covered include motion in resistive fluids, planetary orbits, motion in accelerated reference frames and the inertia tensor. The latter part of the course provides an introduction to general relativity including spacetime invariants, metric and metric tensor, the field equations and tests of general relativity. (Format: Integrated Lecture/Laboratory, 6 Hours) (Exclusion: Any version of PHYS 4411 previously offered with a different title)

### PHYS 4831 (3.00 CR)
### ADVANCED QUANTUM MECHANICS

**Prereq:** CHEM 3231; or 6 credits from PHYS 3821 and MATH 2221; or permission of the Department

This course extends the study of principles of quantum mechanics, comparing properties of continuous and discrete representations. It also develops time-independent perturbation theory for first order, second order, and degenerate cases and treats small perturbations through direct diagonalization of large matrices. This course examines variational principle, central force problems, elements of scattering theory, and the addition of quantized angular momenta. The course concludes with applications of quantum mechanics in molecules, aspects of relativistic quantum mechanics, time dependence in quantum and quantum statistics. [Note 1: This course is cross-listed with CHEM 4831 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: Any version of PHYS 4831 previously offered with a different title)

### PHYS 4851 (3.00 CR)
### NUCLEI AND FUNDAMENTAL PARTICLES

**Prereq:** PHYS 3821; or permission of the Department

This is an introductory course in nuclear theory and particle physics and discusses nuclear energy levels and spectra, scattering experiments, symmetry and conservation principles, quantum electrodynamics, and the weak and strong interactions. (Format: Lecture 3 Hours)

### PHYS 4911 (3.00 CR)
### CURRENT TOPICS IN PHYSICS

**Prereq:** PHYS 3811; or permission of the Department

This course will introduce students to current topics and trends in physics which are not represented in other courses in the curriculum. This will be a seminar format course with sessions led by students, faculty and guest speakers. A key part of the course will be development of skills for identification and critical evaluation of primary literature in physics. (Format: Seminar)

### PHYS 4950 (6.00 CR)
### INDEPENDENT STUDY IN PHYSICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for PHYS 4950/51 more than once, provided the subject matter differs.]

### PHYS 4951 (3.00 CR)
### INDEPENDENT STUDY IN PHYSICS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for PHYS 4950/51 more than once, provided the subject matter differs.]

### PHYS 4990 (6.00 CR)
### HONOURS THESIS

Normally, a student electing this course is expected to accomplish work equivalent to any fourth year course. Students are encouraged, but not required, to work on the project in the Department during the summer immediately preceding the senior year. The topic often involves experimental work, but must have a theoretical component. (Format: Independent Study/Thesis)

### PHYS 4991 (3.00 CR)
### SPECIAL TOPIC IN PHYSICS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PHYS 4991 more than once, provided the subject matter differs.]

# POLITICS AND INTERNATIONAL RELATIONS

The Politics and International Relations Department offers two degree programs: a B.A. in Political Science and a B.A. in International Relations.

The Political Science BA program is designed for students who are interested in the study of politics. The study of politics is concerned with the nature and workings of power, state, and government; the rights and duties of citizenship; the limits and possibilities of collective political action; and the social, economic, and cultural formations that shape the life of the political community. The scope of inquiry is local, national, and international; it includes the empirical analysis of individuals, groups, institutions, and processes as well as the investigation of long-standing philosophical questions concerning human nature, freedom, democracy, and justice.

The Political Science program is organized into four main subfields: Canadian Politics, Comparative Politics, International Politics, and Political Theory. The program offers students the opportunity to gain a strong foundation in all four subfields and to combine empirical, practical, and theoretical approaches in each year of study. In addition to the Canadian Politics subfield, students can take specialized area courses in Africa, the United States, Europe, and the Middle East. Political Science students who seek a more intensive concentration in one particular subfield can integrate courses from other programs in Canadian Studies, International Relations, History, and Philosophy.

The International Relations BA program is designed for students who are interested in an inter-disciplinary approach to international and global studies. International and global studies are concerned with the interconnections between state as well as non-state organizations and actors, the globalizing effects of economic, social, technological, environmental, military, and political processes, and with emerging issues of justice, responsibility, and human well-being that are international and global in scope.

The International Relations program operates as an inter- and multi-disciplinary degree program in which core as well as elective courses are drawn from a range of disciplines such as political science, history, modern languages and literatures, sociology, anthropology, economics, geography, environmental studies, and women's and gender studies. The program provides students with a broad range of intellectual and critical skills for analyzing the interactions between political and economic systems, cultural norms, environmental dynamics, and hierarchies of power. A university-level language requirement anchors the program. To supplement their coursework students are encouraged to gain international experience by studying or working abroad or by doing international work in Canada.

Political Science 1001: Foundations of Politics is the normal prerequisite for all second year Political Science courses and for the second year International Relations course. Students should consult their program advisor in Political Science or International Relations for additional information.

## Interdisciplinary B.A. Program

### MAJOR in International Relations is 60 credits as follows:

**Core (42 credits as follows):**

6 from POLS 1001 and INLR/POLS 2301
3 from POLS at the 2000 level
3 from the POLS 3300 series
9 from INLR at the 3000 or 4000 level
6 from ECON 1001, 1011
3 from ECON 3301, 3501, 3801, 3901, 3921, 4531, 4551
12 from FREN 1651, 1701, 1711, 2401, 2501, 2601, 3101, 3111, 3131; or from GERM 1001, 1011, 2001, 2011, 3001, 3401, 3501; or from JAPA 1001, 1011, 2001, 2011; or from SPAN 1101, 1111, 2101, 2111, 3101, 3111, 3060

**Optional Streams (18 credits)**

18 Choose 9 credits from each of two of the following streams:

ANTH 3021, 3031, 3101, 3401, 3531, 3621, 3831, 3841, 3851, 3861, 3871, 4721
ECON 3301, 3501, 3801, 3901, 3921, 4531, 4551
ENGL 3751, 3761, 3771, 3781, 3921, 4941
GENV 3101, 3201, 3321, 4101, 4111, 4211, 4301, 4811, 4821
HIST 3001, 3021, 3031, 3121, 3141, 3161, 3231, 3241, 3301, 3311, 3321, 3331, 3381, 3461, 3721, 3761, 4241, 4251, 4271, 4300, 4321, 4401, 4701
POLS 3011, 3200, 3211, 3221, 3231, 3301, 3311, 3321, 3331, 3341, 3351, 4200, 4211, 4300, 4310, 4321
RELG 3001, 3101, 3301, 3311, 3411, 3501, 3601, 3701, 3811, 3891, 3911, 3921, 3941, 3981, 4401, 4411, 4421, 4611, 4821
SOCI 3431, 3541, 3551, 3711, 4501, 4511,4551, 4561

**Note:**

1. Students are responsible for ensuring that they have prerequisites for third and fourth year courses in the elective streams.
2. A student may choose to include up to 6 credits at the 3/4000 level not explicitly included in any of the Elective Streams provided prior approval is granted by the Program Advisor.
3. Students may substitute university-level courses in another language approved by the International Relations Program Advisor.
4. Students who complete this Major may not complete a Minor in International Politics.

### HONOURS in International Relations is 72 credits as follows:

60 credits as in the Major, plus
6 from the 4000 level in one of the elective streams chosen for the Major
6 from INLR at the 4000 level

### MINOR in International Politics is 24 credits earned as follows:

3 from POLS 1001
3 from POLS 2301
3 from POLS at the 2000 level
6 from one of FREN/GERM/JAPA/SPAN (as listed in the IR major) or from ECON 1001 and 1011
9 from any POLS 33/4300 series

## Disciplinary B.A. Programs

### MINOR in Political Science is 24 credits earned as follows:

3 from POLS 1001
6-12 from Political Science at the 2000 level
9-15 from Political Science 3000/4000 level

**Note:** At least 3 credits in the minor must be taken from two of the four sub-disciplines in Political Science corresponding with the series numbers for Political Theory (20/30/40), Canadian Politics (21/31/41), Comparative Politics (22/32/42) and International Politics (23/33/43)

### MAJOR in Political Science is 60 credits earned as follows:

3 from POLS 1001
39 from Political Science 2/3/4000 level, 6 to 9 of these credits may be taken at the 2000 level. At least three credits at the 3/4000 level must be taken from each of the four sub-disciplines in Political Science corresponding with the series numbers for Political Theory (30/40), Canadian Politics (31/41), Comparative Politics (32/42) and International Politics (33/43)
18 credits from complementary courses in Arts & Letters, Humanities and Social Sciences, chosen in consultation with the Program Advisor

### HONOURS (Course Option) in Political Science is 72 credits earned as follows:

3 from POLS 1001
57 credits from Political Science 2/3/4000 level. At least six credits at the 3/4000 level must be taken from each of the four sub-fields in Political Science (corresponding with the series numbers for Political Theory (30/40), Canadian Politics (31/41) Comparative Politics (32/42), and International Politics (33/43)
12 credits from complementary courses in Arts & Letters, Humanities and Social Sciences, chosen in consultation with the Program Advisor

### HONOURS (Thesis Option) in Political Science is 72 credits earned as follows:

3 from POLS 1001
51 credits from Political Science 2/3/4000 level. At least six credits at the 3/4000 level must be taken from each of the four sub-fields in Political Science (corresponding with the series numbers for Political Theory (30/40), Canadian Politics (31/41) Comparative Politics (32/42), and International Politics (33/43)
6 credits from Political Science 4990
12 credits from complementary courses in Arts & Letters, Humanities and Social Sciences, chosen in consultation with the Program Advisor

## POLITICS AND INTERNATIONAL RELATIONS COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

## INLR COURSES

#### INLR 1991 (3.00 CR)
#### SPECIAL TOPIC IN INTERNATIONAL RELATIONS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for INLR 1991 more than once, provided the subject matter differs.] (Format: Variable)

#### INLR 2301 (3.00 CR)
#### INTRODUCTION TO INTERNATIONAL RELATIONS

**Prereq:** POLS 1001; or permission of the Department

This course introduces several of the major theories, structures, processes, and issues in international relations. After introducing the current theoretical approaches to the study of global politics, the course addresses a series of topics from among the following: systems of global governance; the concept 'terrorism'; non-state actors in global politics such as corporations, social movements, and non-governmental organizations; human rights and human security; gender and international politics; poverty, 'development', and inequality; and the environment. [Note 1: This course is cross-listed as POLS 2301 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: Any version of INLR/POLS 2301 previously offered with a different title)

#### INLR 2991 (3.00 CR)
#### SPECIAL TOPIC IN INTERNATIONAL RELATIONS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for INLR 2991 more than once, provided the subject matter differs.] (Format: Variable)

### INLR 3001 (3.00 CR)
### GENDER AND INTERNATIONAL RELATIONS

**Prereq:** INLR/POLS 2301; or permission of the Department

This course examines the highly gendered nature of international relations. Topics include: the seeming invisibility of women in the study of international affairs and within international decision-making, the existence of differential international "packages of expectations" concerning the roles of men and women, competing dominant and subordinate masculinities and femininities, the struggle for women's empowerment, and the gendered impact of globalization processes. (Format: Lecture 3 Hours)

### INLR 3201 (3.00 CR)
### PROBLEMS IN INTERNATIONAL DEVELOPMENT

**Prereq:** INLR/POLS 2301; or permission of the Department

This course focuses on leading issues in international development from an international relations perspective. Format: Lecture 3 Hours)

### INLR 3301 (3.00 CR)
### GLOBAL GOVERNANCE

**Prereq:** INLR/POLS 2301; or permission of the Department

This course examines the role of international organizations in International Relations with a focus on the United Nations. It addresses the challenges of multilateral diplomacy in the age of globalization and U.S. supremacy. [Note 1: This course is cross-listed as POLS 3301 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: INLR 3101)

### INLR 3311 (3.00 CR)
### INTERNATIONAL POLITICAL ECONOMY

**Prereq:** INLR/POLS 2301; or permission of the Department

This course surveys the critical International Political Economy (IPE) tradition in the study of International Relations, from Marx and Polanyi to Cox and Strange. As a critique of realism and liberalism, IPE posits the inseparability of the domestic and international realms, of the political and economic spheres, as well as of state and society. It examines the impact of globalization and environmental change on states in the global order. [Note 1: This course is cross-listed as POLS 3311 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: INLR 3401)

### INLR 3351 (3.00 CR)
### FOREIGN POLICY ANALYSIS

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course introduces key theories in the study of foreign policy-making. It explores the role of individual decision-makers, interest-groups, economics, bureaucratic politics, and regime types. It also examines how constraints and opportunities in the international system shape foreign policy choices. It analyzes foreign policy in the context of both developed and developing states and considers a variety of different foreign policy issues. (Format: Lecture 3 Hours)[Note 1: This course is cross-listed as POLS 3351 and may therefore count as 3 credits in either discipline.]

### INLR 3991 (3.00 CR)
### SPECIAL TOPIC IN INTERNATIONAL RELATIONS

**Prereq:** INLR/POLS 2301; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for INLR 3991 more than once, provided the subject matter differs.]

### INLR 4101 (3.00 CR)
### GLOBAL GOVERNANCE SIMULATION

**Prereq:** INLR/POLS 2301; INLR 3101; enrolment is restricted to Honours students or by permission of the Department

This course engages students in an innovative and intensive simulation of an international conflict or crisis in order to highlight the challenges of international decision-making in multilateral forums. It draws case studies from the United Nations and other international organizations, or from disputes among states and non-state actors. (Format: Lecture 3 Hours)

### INLR 4201 (3.00 CR)
### CANADA, GLOBALIZATION, AND INTERNATIONAL DEVELOPMENT

**Prereq:** INLR/POLS 2301; 3 credits from INLR at the 3000 level; or permission of the Department

This course critically evaluates the relationships between various Canadian actors and the so-called 'developing' world, historically and in the contemporary period. Through the use of country case studies this course investigates issues involving Canadian overseas development assistance, and the role played by Canadian corporations and non-governmental organizations (NGOs) in selected countries. (Format: Seminar 3 Hours) (Exclusion: INLR 4701)

### INLR 4301 (3.00 CR)
### GLOBAL CIVIL SOCIETY

**Prereq:** INLR/POLS 2301; 3 credits from INLR at the 3000 level; or permission of the Department

This course engages students in an advanced analysis of the concept Global Civil Society. It begins by exploring various theoretical approaches to understanding and employing this concept and proceeds to analysis of several issues confronted by Global-Civil-Society actors. Such issues may include: the World Social Forum (WSF); the campaign to ban landmines; anti-capitalist organizing; and the question of violence in achieving social change. (Format: Seminar 3 Hours) (Exclusion: INLR 4701)

### INLR 4310 (6.00 CR)
### INTERNATIONAL RELATIONS THEORY

**Prereq:** 3 credits from POLS or INLR at the 3000 level; or permission of the Department

This course provides an advanced analysis of major theories of International Relations. It may include theories of realism, liberalism, constructivism, Marxism, feminism, poststructuralism, and postcolonialism. (Format: Seminar 3 Hours)[Note 1: This course is cross-listed as POLS 4310 and may therefore count as 3 credits in either discipline.]

### INLR 4321 (3.00 CR)
### SECURITY AND DEVELOPMENT IN THE GLOBAL SOUTH

**Prereq:** 3 credits from POLS or INLR at the 3000 level; or permission of the Department

This course examines the relationship between political, economic, and social development and security. It studies the security environment of a developing world that faces a unique constellation of security threats created by the presence of weak states, divided societies, political and economic dependency, and the pressures of globalization. It uses the perspective of traditional theories that privilege the security of states and regimes as well as non-traditional theories that focus on human and environmental security. The course also examines potential strategies for coping with the various types of insecurity experienced by developing states and societies. (Format: Seminar 3 Hours) [Note 1: This course is cross-listed as POLS 4321 and may therefore count as 3 credits in either discipline.]

### INLR 4401 (3.00 CR)
### AFRICA IN A GLOBAL CONTEXT

**Prereq:** INLR/POLS 2301; 3 credits from INLR at the 3000 level; or permission of the Department

This course focuses on the manner in which the African continent is connected to various processes and structures of global politics. Topics may include: the integration of Africa into the global economy; the scramble for oil and gas on the continent; Africa and the 'War on Terror'; the rising role of the Chinese state in Africa; and the role of other major powers such as the United States and France on the continent. (Format: Seminar 3 Hours) (Exclusion: INLR 4701)

### INLR 4950 (6.00 CR)
### INDEPENDENT STUDY IN INTERNATIONAL RELATIONS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for INLR 4950/51 more than once, provided the subject matter differs.]

### INLR 4951 (3.00 CR)
### INDEPENDENT STUDY IN INTERNATIONAL RELATIONS

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for INLR 4950/51 more than once, provided the subject matter differs.]

### INLR 4990 (6.00 CR)
### HONOURS THESIS

This course comprises independent research and study under the direction of a supervisor approved by the Program Advisor. (Format: Independent Study/Thesis) [Note 1: Permission of the IR Program Advisor and written confirmation from a thesis supervisor submitted to the Program Advisor before March 31 of the year before the thesis is to be undertaken.]

### INLR 4991 (3.00 CR)
### SPECIAL TOPIC IN INTERNATIONAL RELATIONS

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for INLR 4991 more than once, provided the subject matter differs.]

## POLS COURSES

### POLS 1001 (3.00 CR)
### FOUNDATIONS OF POLITICS

This course is an introduction to the foundations of politics through the medium of political theory, Canadian politics, comparative politics, or international politics. (Format: Lecture 3 Hours)(Exclusion: POLS 1000)

### POLS 1991 (3.00 CR)
### SPECIAL TOPIC IN POLITICAL SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for POLS 1991 more than once, provided the subject matter differs.]

### POLS 2001 (3.00 CR)
### DEMOCRATIC THOUGHT

**Prereq:** POLS 1001; or permission of the Department

This course examines democratic thought from its origins in the ancient polis through to its modern incarnation in the writings of Rousseau, Tocqueville, John Stuart Mill and selected contemporary theorists. It places particular emphasis on the conflict between participatory and elite models of democratic citizenship. (Format: Lecture 3 Hours)(Exclusion: Any version of POLS 2001 previously offered with a different title)

### POLS 2101 (3.00 CR)
### CANADIAN GOVERNMENT AND POLITICS

**Prereq:** POLS 1001; or permission of the Department

This course is a study of the political process in Canada. It presents an overview of the constitution, institutions, and political actors that represent the essential components of Canada's political culture and government. (Format: Lecture 3 Hours)

### POLS 2211 (3.00 CR)
### CANADA AND THE WORLD

**Prereq:** POLS 1001; or permission of the Department

This course is a critical analysis of Canada's place in a rapidly evolving global order. It places particular emphasis on media technology. (Format: Lecture 3 Hours)

### POLS 2221 (3.00 CR)
### INTRODUCTION TO COMPARATIVE POLITICS

**Prereq:** POLS 1001; or permission of the Department

This course introduces the comparative methods and the importance of theory in this sub-field. It examines several country case studies selected from diverse geographical regions throughout the world. Its topics may include contemporary issues such as terrorism, social movements, civil conflict, and democratic transitions. (Format: Lecture 3 Hours)

### POLS 2301 (3.00 CR)
### INTRODUCTION TO INTERNATIONAL RELATIONS

**Prereq:** POLS 1001; or permission of the Department

This course introduces several of the major theories, structures, processes, and issues in international relations. After introducing the current theoretical approaches to the study of global politics, the course addresses a series of topics from among the following: systems of global governance; the concept 'terrorism'; non-state actors in global politics such as corporations, social movements, and non-governmental organizations; human rights and human security; gender and international politics; poverty,'development', and inequality; and the environment.[Note 1: This course is cross-listed as INLR 2301 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours)(Exclusion: Any version of INLR/POLS 2301 previously offered with a different title)

### POLS 2991 (3.00 CR)
### SPECIAL TOPIC IN POLITICAL SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for POLS 2991 more than once, provided the subject matter differs.]

### POLS 3001 (3.00 CR)
### ANCIENT POLITICAL THOUGHT

**Prereq:** 6 credits in POLS at the 2000 level; or permission of the Department

This course examines the ancient tradition of political thought from Plato, Aristotle, and Augustine through to its eclipse in Machiavelli. It emphasizes the enduring themes of nature, virtue, citizenship, property, religion and the best regime. (Format: Lecture 3 Hours)(Exclusion: Any version of POLS 3001 previously offered with a different title)

### POLS 3011 (3.00 CR)
### MODERN POLITICAL THOUGHT

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines the modern tradition of political thought from its origins in Hobbes and Locke to its zenith in Rousseau and Marx. It emphasizes the defining problems of freedom, history, property, revolution, and the state. (Format: Lecture 3 Hours)(Exclusion: Any version of POLS 3011 previously offered with a different title)

### POLS 3031 (3.00 CR)
### WOMEN AND POLITICS

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines the relationship between women and politics. Its topics may include the historical and conceptual roots of the problem of citizenship for women, patterns of women's participation in politics and government, the politics of the women's movement, and women's effects on public policy. (Format: Lecture 3 Hours)

### POLS 3101 (3.00 CR)
### POLITICAL LEADERSHIP IN CANADA

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course studies the various public offices in Canada and the individuals who fill them, including the Prime Minister, Provincial premiers, members of parliament, mayors and judges. It emphasizes the opportunities and challenges that each faces in providing political leadership in Canada. (Format: Lecture 3 Hours)

### POLS 3111 (3.00 CR)
### CANADIAN FEDERALISM AND INTERGOVERNMENTAL RELATIONS

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course is an examination of the evolution and operation of the Canadian federal system. Its topics may include the concept and meaning of federalism, constitutional reform, fiscal federalism and intergovernmental relations. (Format: Lecture 3 Hours)(Exclusion: Any version of POLS 3111 previously offered with a different title)

### POLS 3141 (3.00 CR)
### CANADIAN PUBLIC POLICY

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course introduces students to theories of public policy-making and the policy- making process in Canada. It emphasizes decision-making, policy change, and implementation in exploring connections among actors, ideas, and institutions in various public policy fields including environmental, health, and social policy to reveal patterns of policy change. (Format: Lecture 3 Hours)

### POLS 3151 (3.00 CR)
### POLITICAL PARTIES AND ELECTIONS IN CANADA

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines how the structure of the Canadian electoral system conditions the role, organization, and development of political parties in Canada as vehicles for political representation. It includes an examination of the voting calculus and the role of the media in elections. (Format: Lecture 3 Hours)

### POLS 3200 (6.00 CR)
### EUROPEAN POLITICS

This course is a comparative analysis of government and politics with particular emphasis on Europe's role in a changing geopolitical order. (Format: Lecture 3 Hours)

### POLS 3211 (3.00 CR)
### AMERICAN GOVERNMENT AND POLITICS

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines the political process in the United States. It presents an overview of the constitution, institutions, and political actors that represent the essential components of American political culture and government. It may also focus on one or more important policy areas. (Format: Lecture 3 Hours)(Exclusion: POLS 2201)

### POLS 3221 (3.00 CR)
### AFRICAN POLITICS

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course introduces the study of African politics and development. It examines a number of country case studies and important contemporary issues. Its topics may include critical analysis of colonial and pre-colonial historical contexts, the nature of the post-colonial state in Africa, and the manner in which Africa is integrated into the global economy. (Format: Lecture 3 Hours)

### POLS 3231 (3.00 CR)
### COMPARATIVE POLITICS OF THE MIDDLE EAST

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines the political dynamics of selected states and societies in the Middle East. It addresses such issues as post-colonial state formation and political development; the political economy of reform; petropolitics; gender; minorities; the effects of regional conflict on domestic politics; the growth of secular and religious opposition movements; and processes of political liberalization and de-liberalization. (Format: Lecture 3 Hours)(Exclusion: POLS 3991 Comparative Politics of the Middle East)

### POLS 3301 (3.00 CR)
### GLOBAL GOVERNANCE

**Prereq:** INLR/POLS 2301; or permission of the Department

This course examines the role of international organizations in International Relations with a focus on the United Nations. It addresses the challenges of multilateral diplomacy in the age of globalization and U.S. supremacy.[Note 1: This course is cross-listed as INLR 3301 and may therefore count as 3 credits in either discipline.](Format: Lecture 3 Hours)(Exclusion: INLR 3101)

### POLS 3311 (3.00 CR)
### INTERNATIONAL POLITICAL ECONOMY

**Prereq:** INLR/POLS 2301; or permission of the Department

This course surveys the critical International Political Economy (IPE) tradition in the study of International Relations, from Marx and Polanyi to Cox and Strange. As a critique of realism and liberalism, IPE posits the inseparability of the domestic and international realms, of the political and economic spheres, as well as of state and society. It examines the impact of globalization and environmental change on states in the global order.[Note 1: This course is cross-listed as INLR 3311 and may therefore count as 3 credits in either discipline.](Format: Lecture 3 Hours)(Exclusion: INLR 3401)

### POLS 3321 (3.00 CR)
### INTERNATIONAL POLITICS OF THE MIDDLE EAST

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines the factors shaping international politics in the Middle East. It considers issues such as war, conflict resolution, regional alliance behaviour, and the relationships between regional states and the great powers, examining them from the perspective of traditional theories of international relations that emphasize balance of power politics, as well non-traditional theories that emphasize political and economic underdevelopment and dependency. (Format: Lecture 3 Hours)(Exclusion: POLS 3991 Middle East Foreign Policy; Any version of POLS 3321 previously offered with a different title)

### POLS 3331 (3.00 CR)
### AMERICAN FOREIGN POLICY

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines American foreign policy during the post-World War II period. The first half of the course introduces key concepts and theories concerning the making of American foreign policy. The second half of the course considers the Post-Cold War security environment and the challenges facing US policy makers in the contemporary environment. (Format: Lecture 3 Hours)

### POLS 3341 (3.00 CR)
### SECURITY STUDIES

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course examines strategies for war and peace. The first half of the course focuses on basic military strategies, including attrition, blitzkrieg, and deterrence as well as asymmetric conflict. The second half of the course treats conflict resolution as well as strategies for maintaining peace once it has been achieved. These strategies include humanitarian intervention, balance of power politics, concerts of power, and international institutions. The course focuses on theory but uses case studies to illustrate specific arguments. (Format: Lecture 3 Hours)(Exclusion: Any version of POLS 3001 previously offered with a different title)

### POLS 3351 (3.00 CR)
### FOREIGN POLICY ANALYSIS

**Prereq:** 6 credits from POLS at the 2000 level; or permission of the Department

This course introduces key theories in the study of foreign policy-making. It explores the role of individual decision-makers, interest-groups, economics, bureaucratic politics, and regime types. It also examines how constraints and opportunities in the international system shape foreign policy choices. It analyzes foreign policy in the context of both developed and developing states and considers a variety of different foreign policy issues. (Format: Lecture 3 Hours)[Note 1: This course is cross-listed as INLR 3351 and may therefore count as 3 credits in either discipline.]

### POLS 3991 (3.00 CR)
### SPECIAL TOPIC IN POLITICAL SCIENCE

**Prereq:** POLS 1001; 6 credits from POLS at the 2000 level; or permission of the Department.

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for POLS 3991 more than once, provided the subject matter differs.]

### POLS 4000 (6.00 CR)
### PROBLEMS IN THE HISTORY OF POLITICAL THOUGHT

**Prereq:** 3 credits from POLS 3001, 3011; or permission of the Department

This course examines a selected problem in the history of political thought. (Format: Seminar 3 Hours)(Exclusion: Any version of POLS 4000 previously offered with a different title)

### POLS 4001 (3.00 CR)
### FEMINIST POLITICAL THOUGHT

**Prereq:** 3 credits from POLS 3001, 3011, 3031; or permission of the Department

This course examines contemporary feminist political thought with particular emphasis on feminist critiques and reconstructions of traditional concepts such as politics, citizenship, equality, justice, and freedom. (Format: Seminar 3 Hours)

### POLS 4011 (3.00 CR)
### LIBERAL DEMOCRACY AND ITS DISCONTENTS

**Prereq:** Three credits from POLS 3001 or POLS 3011; or permission of the Department

This course examines the critical theories of the culture and politics of liberal democracy which have shaped the main currents of modern political thought from the nineteenth century to the present. (Format: Seminar 3 Hours)

### POLS 4121 (3.00 CR)
### ENVIRONMENTAL CONFLICTS IN CANADA

**Prereq:** 3 credits from POLS 3101, 3111, 3141, 3151; or permission of the Department

This course examines transboundary environmental conflicts in Canada. It investigates conceptual and regulatory issues such as the scale and heterogeneity of conflicts, communities affected, collaboration and coordination, privatization, and government management. Topics may include: water scarcity and pollution, invasive species, climate change, wildlife management, energy development, and waste management. (Format: Seminar 3 Hours)

### POLS 4141 (3.00 CR)
### INTEREST GROUPS AND SOCIAL MOVEMENTS IN CANADA

**Prereq:** Three credits from POLS 3101, 3111, 3121, 3100; or permission of the Department

This course is an examination of interest groups and social movements primarily from a Canadian perspective. It studies the development and role of interest groups and social movements both in the past and present. (Format: Seminar 3 Hours)(Exclusion: POLS 4100)

### POLS 4200 (6.00 CR)
### POLITICAL AND CULTURAL CHANGE: A COMPARATIVE ANALYSIS OF NORTH AMERICA AND EUROPE

A comparative analysis of the impact of political change on the broader culture, as expressed in literature, cinema, architecture and communications media. Examples will be taken from North American and European experience. (Format: Lecture/Seminar 3 Hours)

### POLS 4211 (3.00 CR)
### POLITICS AND LITERATURE

**Prereq:** 3 credits from POLS at the 2/3000 level; or permission of the Department

An analysis of the relationship between literature and social change. Selected works of a number of recent Latin American and Central European writers will be examined. (Format: Lecture/Seminar 3 Hours)

### POLS 4300 (6.00 CR)
### CANADIAN FOREIGN POLICY

**Prereq:** POLS 3310; or permission of the Department

A study of the major themes and issues in post-1945 Canadian Foreign policy, with a focus on the concept of internationalism as the foundation for Canada's post-war approaches to international order and security. (Format: Lecture 3 Hours)

### POLS 4310 (6.00 CR)
### INTERNATIONAL RELATIONS THEORY

**Prereq:** 3 credits from POLS or INLR at the 3000 level; or permission of the Department

This course provides an advanced analysis of major theories of International Relations. It may include theories of realism, liberalism, constructivism, Marxism, feminism, poststructuralism, and postcolonialism. (Format: Seminar 3 Hours)[Note 1: This course is cross-listed as INLR 4310 and may therefore count as 3 credits in either discipline.]

### POLS 4321 (3.00 CR)
### SECURITY AND DEVELOPMENT IN THE GLOBAL SOUTH

**Prereq:** 3 credits from POLS or INLR at the 3000 level; or permission of the Department

This course examines the relationship between political, economic, and social development and security. It studies the security environment of a developing world that faces a unique constellation of security threats created by the presence of weak states, divided societies, political and economic dependency, and the pressures of globalization. It uses the perspective of traditional theories that privilege the security of states and regimes as well as non-traditional theories that focus on human and environmental security. The course also examines potential strategies for coping with the various types of insecurity experienced by developing states and societies. (Format: Seminar 3 Hours) [Note 1: This course is cross-listed as INLR 4321 and may therefore count as 3 credits in either discipline.]

### POLS 4950 (6.00 CR)
### INDEPENDENT STUDY IN POLITICAL SCIENCE

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for POLS 4950/51 more than once, provided the subject matter differs.]

### POLS 4951 (3.00 CR)
### INDEPENDENT STUDY IN POLITICAL SCIENCE

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for POLS 4950/51 more than once, provided the subject matter differs.]

### POLS 4990 (6.00 CR)
### HONOURS THESIS

The honours thesis involves independent research and study under the direction of a supervisor approved by the Department. (Format: Independent Study/Thesis) [Note 1: Permission of the Program Advisor and written confirmation from a thesis supervisor submitted to the Program Advisor before March 31 of the year before the thesis is to be undertaken.]

### POLS 4991 (3.00 CR)
### SPECIAL TOPIC IN POLITICAL SCIENCE

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for POLS 4991 more than once, provided the subject matter differs.]

# PSYCHOLOGY

Psychology is the scientific study of mind and behaviour. It is a biological, a social, and a cognitive science. As a biological science, it studies the physiological mechanisms and evolutionary origins of mental and behavioural phenomena. As a social science, it studies personality and interpersonal relations and their bases in social interaction, cognition and emotion. As a cognitive science, it studies such processes as sensation and perception, abstract thinking, reasoning, language, and memory. Developmental psychology combines all three aspects in taking for its subject matter the total life span. The objectives of psychological study are to understand human nature, for its own sake, and to provide an increasingly reliable basis for the application of psychological principles to education, social policy, and medical treatment.

Psychologists use a variety of methods appropriate to the questions they study. Experimentation, laboratory techniques, observational procedures, measurement, and statistical methods are among the important tools of the psychologist. Whatever their methods, psychologists share in their research a commitment to careful and systematic observation aimed at the formulation of general principles.

In recent years psychology has become increasingly interdisciplinary. Psychologists work with biologists, geneticists, medical researchers, physiologists, and biochemists on those questions of a biological nature. They work with sociologists, criminologists, anthropologists, and economists, among others, on questions relating to social behaviour. Finally, they work with mathematicians, computer scientists, philosophers, linguists, and others on questions involving the nature and origins of knowledge.

## Disciplinary B.A. and B.Sc. Programs

### B.A. & B.Sc. MINOR in Psychology is 24 credits earned as follows:

6 from PSYC 1001, 1011
6 from PSYC 2101, 2201, 2301
12 from Psychology, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor

### B.A. MAJOR in Psychology is 60 credits, including 42 credits from Psychology earned as follows:

6 from PSYC 1001, 1011
6 from PSYC 2001, 2011
6 from PSYC 2101, 2201, 2301
12 from Psychology at the 3/4000 level, with a maximum of 3 credits from PSYC 4950/51
3 from Psychology at the 4000 level, excluding PSYC 4950/51
9 from Psychology
18 from complementary courses

**Note:** Courses with significant psychology content (for example, PHYS 3521, PHYS 3581, PHIL 4511) offered by other departments may be approved as psychology credits (to a maximum of 3 credits) with permission of the Psychology Department.

**Note:** A maximum of 9 credits from PSYC 4950/4951 can be taken during the degree, without permission of the Department Head.

**Note:** A maximum of 6 credits from PSYC 4950 and/or 4951 can be used to meet the 42 credit requirement for a Major in Psychology.

### B.Sc. MAJOR in Psychology is 60 credits, including 42 from Psychology earned as follows:

6 from PSYC 1001, 1011
6 from PSYC 2001, 2011
6 from PSYC 2101, 2201, 2301
12 from Psychology at the 3/4000 level, with a maximum of 3 credits from PSYC 4950/51
3 from Psychology at the 4000 level, excluding PSYC 4950/51
9 from Psychology

**Plus,** 18 credits from Science:

6 with three from MATH 1111 or MATH 1151, and three other credits from MATH 1121, 1251, 2211, 2221 or COMP 1631
3 from PHYS 1041, PHYS 1051, or CHEM 1001
3 from BIOL 1001, BIOL 1501, or BIOC 1001
6 from complementary science courses (Biochemistry, Biology, Chemistry, Computer Science, Math, Physics, GENS) excluding Psychology.

**Note:** Courses with significant psychology content (for example, PHYS 3521, PHYS 3581, PHIL 4511) offered by other departments may be approved as psychology credits (to a maximum of 3 credits) with permission of the Psychology Department.

**Note:** A maximum of 9 credits from PSYC 4950/4951 can be taken during the degree, without permission of the Department Head.

**Note:** A maximum of 6 credits from PSYC 4950 and/or 4951 can be used to meet the 42 credit requirement for a Major in Psychology.

**Note:** Courses should be selected keeping in mind the B.Sc. requirement of 30 credits from courses at the 3/4000 level.

### B.A. and B.Sc. HONOURS in Psychology is 78 credits earned as follows:

60 credits as in either the B.A. or B.Sc. Major, plus:
18 from Psychology which must include 3001, 3901, 4903, 4990, chosen in consultation with the Program Advisor

## PSYCHOLOGY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

**Note:** The following courses are subject to an instructional supply fee - PSYC 2001, 2011, 2101, 2201, 2301, 3001, 3101, 3111, 3201, 3221.

### PSYC 1001 (3.00 CR)
### INTRODUCTION TO PSYCHOLOGY I

A general introduction to the concepts, problems, and methods of modern scientific psychology. Topics surveyed include neuroanatomy and other aspects of the biological bases of psychological processes, learning, motivation, sensation, perception, aspects of cognition, memory, and language. [Note 1: Students who, prior to September 2000, have successfully completed either PSYC 1001 (Psychological Adaptation) or 1101(Psychological Processes) may obtain credit for either PSYC 1001 (Introduction to Psychology I) or PSYC 1011(Introduction to Psychology II).] (Format: Lecture 3 Hours)

### PSYC 1011 (3.00 CR)
### INTRODUCTION TO PSYCHOLOGY II

A general introduction to the concepts, problems, and methods of modern scientific psychology. Topics surveyed include attitudes, stereotyping and other aspects of social psychology, developmental psychology, intelligence, aspects of cognition and language, personality, and the psychology of abnormal behaviour. PSYC 1001 and 1011 may be taken in either order. Neither is a prerequisite to the other. [Note 1: Students who, prior to September 2000, have successfully completed either PSYC 1001 (Psychological Adaptation) or 1101(Psychological Processes) may obtain credit for either PSYC 1001 (Introduction to Psychology I) or PSYC 1011(Introduction to Psychology II).] (Format: Lecture 3 Hours)

### PSYC 1991 (3.00 CR)
### SPECIAL TOPIC IN PSYCHOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PSYC 1991 more than once, provided the subject matter differs.] (Format: Variable)

### PSYC 2001 (3.00 CR)
### RESEARCH DESIGN AND ANALYSIS I

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

This course considers a range of research strategies, including descriptive, correlational, experimental, and quasi-experimental research designs. Other topics include the research process, ethics in research, defining and measuring variables, sampling, and writing a research report. The use of descriptive statistics to evaluate the results of carefully planned research is also described. (Format: Lecture 3 Hours, Laboratory 1 Hour)

### PSYC 2011 (3.00 CR)
### RESEARCH DESIGN AND ANALYSIS II

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; PSYC 2001; or permission of the Department

This course covers the research process from the development of simple and complex research designs to statistical analyses of the data collected. Topics covered include analysis of variance, correlation analysis, and nonparametric approaches. It also introduces a statistical software package. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 2101 Research Design and Analysis)

### PSYC 2101 (3.00 CR)
### BIOPSYCHOLOGY

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

In this lecture and laboratory course, students will be provided with a basic foundation in the neural bases of behavior. Topics will include the role of evolution and genetics in the development of the nervous system, the structure and function of the nervous system, and the biological bases of perception, movement, eating, drinking, sleeping and dreaming, sexual behaviour, addiction and reward, and memory. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 2051)

### PSYC 2121 (3.00 CR)
### BEHAVIOUR MODIFICATION

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department.

Basic concepts and theories involved in the psychology of learning, the analysis of behaviour and behavioural assessment will be discussed in the context of real life problems. Applications of behaviour modification and behaviour therapy will be discussed in terms of problems associated with parenting, development of social skills, education, disabilities, health and other issues. (Format: Lecture 3 Hours) (Exclusion: PSYC 2011 Learning and Memory)

### PSYC 2201 (3.00 CR)
### COGNITIVE PROCESSES

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

This lecture and laboratory course provides an overview of mental processes and activities used in perceiving, learning, remembering, thinking, and understanding. This course will offer students an opportunity to explore current information processing models and their applications. Some of the topics surveyed include attention, memory, language, neurocognition and thinking and reasoning. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 3021 Cognition)

### PSYC 2301 (3.00 CR)
### SOCIAL PSYCHOLOGY

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

A lecture and laboratory course introducing students to the field of social psychology. Topics covered will include social cognition, attitudes, prejudice and discrimination, interpersonal attraction, social influence, helping and aggression, and group processes. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 3081)

### PSYC 2431 (3.00 CR)
### CHILD AND ADOLESCENT DEVELOPMENT

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

This course is an overview of social, cognitive, and biological development during infancy, childhood, and adolescence. Some of the topics covered include the development of perception, memory, emotions, and family relationships, puberty, identity, peer groups, and adolescent sexuality. (Format: Lecture 3 Hours) (Exclusion: PSYC 2401; PSYC 2411)

### PSYC 2601 (3.00 CR)
### PSYCHOLOGY OF ABNORMAL BEHAVIOUR

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

This course will present an overview of psychological disorders: their biological and social origins, classification, symptoms and common treatments. (Format: Lecture 3 Hours) (Exclusion: PSYC 3061)

### PSYC 2611 (3.00 CR)
### HEALTH PSYCHOLOGY

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

This course will provide an introduction to the psychology of health, including the ways in which thoughts, emotions, and behavior influence one's health. This course will cover both current research and theory in health psychology. (Format: Lecture 3 Hours)

### PSYC 2701 (3.00 CR)
### PERSONALITY

**Prereq:** Second-year standing; PSYC 1001; PSYC 1011; or permission of the Department

This course will provide an introduction to personality as an enduring, organized pattern of thinking, feeling and behaving. The course will examine key theorists and broader perspectives on personality, as well as the measurement of personality from those perspectives. Examples of perspectives may include dispositional, biological, psychoanalytic, learning, and phenomenological. (Format: Lecture 3 Hours) (Exclusion: PSYC 3071)

### PSYC 2991 (3.00 CR)
### SPECIAL TOPIC IN PSYCHOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PSYC 2991 more than once, provided the subject matter differs.] (Format: Variable)

### PSYC 3001 (3.00 CR)
### ADVANCED DESIGN AND ANALYSIS

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; PSYC 2001; PSYC 2011; or permission of the Department

This lecture and laboratory course provides the student with advanced analytic and design tools necessary to interpret the research of others and to conduct original research. Lectures will be supplemented by labs in which students will have an opportunity to practice their skills in answering questions of practical and theoretical interest. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PSYC 3021 (3.00 CR)
### PSYCHOLOGICAL MEASUREMENT AND INDIVIDUAL DIFFERENCES

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; 6 credits from PSYC 2001, 2011 recommended; or permission of the Department

This course examines the history and principles of psychological testing. It is concerned with the logic of test construction and the problems associated with attempts to quantify and assess human abilities and characteristics. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PSYC 3101 (3.00 CR)
### HUMAN NEUROPSYCHOLOGY

**Prereq:** Third-year standing; PSYC 2101; 3 credits from PSYC at the 2000 level; or permission of the Department

This course examines the structure and functions of the cerebral cortex. Topics include cerebral asymmetry in function, the anatomy and functions of the frontal, parietal, temporal, and occipital lobes, and the neural substrates of higher functions such as memory, language, emotion, spatial behaviour, and attention. [Note 1: PSYC 2001 and 2011 strongly recommended as additional prerequisites.](Format: Lecture 3 Hours, Laboratory 1 Hour)

### PSYC 3111 (3.00 CR)
### CONDITIONING

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This lecture and laboratory course examines the role of associative processes in both human and non-human learning. Topics will include habituation, classical conditioning, operant conditioning, and observational learning. [Note 1: PSYC 2001 and 2011 strongly recommended as additional prerequisites.] (Exclusion: PSYC 3011 Conditioning) (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PSYC 3151 (3.00 CR)
### DRUGS AND BEHAVIOUR

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This course explores principles of pharmacology, neural transmission, behavioural assessment of drug effects, theories of addiction, tolerance, and dependence as a conceptual introduction to behavioural pharmacology. It discusses specific psychopharmacologic issues pertaining to alcohol, benzodiazepines, barbiturates, opiates, psychomotor stimulants, caffeine, tobacco, hallucinogens, and antipsychotic drugs. (Format: Lecture 3 Hours) (Exclusion: PSYC 2111)

### PSYC 3201 (3.00 CR)
### MEMORY

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This lecture and laboratory course examines contemporary research and theories of human memory. Topics covered will include short-term and long-term memory, forgetting, implicit memory, amnesia, memory and aging, reconstructive processes, mnemonics and imagery. (Format: Lecture 3 Hours, Laboratory 1.5 Hours)

### PSYC 3211 (3.00 CR)
### SENSATION AND PERCEPTION

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This course will examine how physical energy is translated into sensory information and processed into our perceptions of the world around us. Topics covered will include the psychophysics and neural coding of each of our senses as well as the higher order processes of attention and cognition. In addition to lectures, students are required to participate in scheduled laboratory sessions. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 3121 Sensation and Perception)

### PSYC 3221 (3.00 CR)
### PSYCHOLOGY OF LANGUAGE

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This lecture and laboratory course describes our present knowledge concerning the mechanisms underlying the production, comprehension, and use of language. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 3141; any version of PSYC 3221 previously offered with a different title)

### PSYC 3241 (3.00 CR)
### FORENSIC PSYCHOLOGY

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This course examines the relationship between psychology and the legal system. Topics include: police psychology, eyewitness testimony, jury decision-making, risk-assessment in legal situations, violent offenders, and psychopaths. (Format: Lecture 3 Hours, Laboratory 1.5 Hours) (Exclusion: PSYC 3991 Forensic Psychology)

### PSYC 3301 (3.00 CR)
### INTERPERSONAL RELATIONS

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This course examines aspects of interpersonal attraction and interpersonal relationships. Topics covered include attachment and affiliation, interpersonal attraction, developing and maintaining close relationships, friendship and love, relationship problems, as well as relationship termination. (Format: Lecture 3 Hours)

### PSYC 3311 (3.00 CR)
### HUMAN SEXUALITY

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This course examines human sexuality from a multidisciplinary perspective. Topics include physiology and anatomy, sexual behavior, sexual orientation, reproduction, sexual health, and sexual problems and solutions. (Format: Lecture 3 Hours)

### PSYC 3331 (3.00 CR)
### DEATH AND DYING

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

This course examines psychological perspectives on issues related to death, dying, and bereavement. Topics include hospice palliative care, end-of-life decisions, suicide, euthanasia, funeral practices, dealing with grief and bereavement, and cross-cultural perspectives on and attitudes toward death and dying. (Format: Lecture 3 Hours)

### PSYC 3411 (3.00 CR)
### COGNITIVE DEVELOPMENT

**Prereq:** Third-year standing; 3 credits from PSYC 2401, 2431; 3 credits from PSYC at the 2000 level; or permission of the Department

This course examines theories and research methods of developmental psychology, with a focus on research and findings in cognitive development in infancy, childhood and adolescence. It includes theories of how infants and children discover and understand the world, remember information, and solve problems. (Format: Lecture 3 Hours, Laboratory 3 Hours)

### PSYC 3421 (3.00 CR)
### ADULTHOOD AND AGING

**Prereq:** Third-year standing; 6 credits from PSYC at the 2000 level, or permission of the Department

This course is an overview of social, cognitive, and biological development during early, middle, and especially late adulthood. Topics include: age-related changes in the central nervous system; dementia; late-life changes in intellectual abilities, memory and sensory processes; and the effects of age on personality and interpersonal relationships. (Format: Lecture 3 Hours) (Exclusion: PSYC 2421)

### PSYC 3511 (3.00 CR)
### PSYCHOLOGY OF GENDER

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or a declared Minor in Women's and Gender Studies; or permission of the Department

This course systematically reviews psychological theories and research findings about gender. Topics include biological effects on gender development, gender roles, health and reproduction, personality and social interaction, work, sexuality, gendered violence, and mental health. It also considers the ways that race, ethnicity, class, physical ability, sexual orientation, and age modify women's and men's experience. (Format: Lecture 3 Hours) (Exclusion: PSYC 2501; any version of PSYC 3511 previously offered with a different title)

### PSYC 3601 (3.00 CR)
### INTRODUCTION TO CLINICAL PSYCHOLOGY

**Prereq:** Third-year standing; PSYC 2601; 6 credits from PSYC at the 2000 level; or permission of the Department

This course introduces the main theoretical perspectives, strategies of diagnosis and assessment, and types of intervention used in clinical psychology. Lectures focus on developing a framework for conceptualizing psychological problems, on the basics of interviewing and using psychological tests, and on different types of clinical treatments. It also explores specialized areas of clinical psychology such as child psychology, clinical neuropsychology, and forensic psychology. (Format: Lecture 3 Hours) (Exclusion: PSYC 3501 Introduction to Clinical Psychology)

### PSYC 3801 (3.00 CR)
### EDUCATIONAL PSYCHOLOGY

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level; or permission of the Department

An introduction to selected principles, research findings, and theories of psychology considered relevant to teaching and learning. Topics will include such areas as human development and learning including developmental changes, motivational and learning processes, exceptionalities and other individual differences, dynamics of social groups, and the evaluation of teaching/learning. (Format: Lecture 3 Hours)

### PSYC 3821 (3.00 CR)
### CHILD PSYCHOPATHOLOGY

**Prereq:** Third-year standing; PSYC 2431; six credits from PSYC at the 2000 level; or permission of the Department

This course examines prevalence, aetiology, diagnosis, and treatment of the major psychological disorders of childhood including: anxiety; mood and conduct disorders; ADHD; autism; and language and learning disorders. The course focuses on examining the current state of research in childhood psychopathology. (Format: Lecture 3 Hours, Laboratory 1 Hour) (Exclusion: PSYC 3501 Child Psychopathology)

### PSYC 3901 (3.00 CR)
### HISTORY OF PSYCHOLOGY

**Prereq:** Third-year standing; 15 credits from PSYC at the 2000 or 3000 level; or permission of the Department

This course places the problems and concepts of contemporary psychology in a historical context by surveying the philosophical roots of pyschological research and clinical practice. It covers the development of psychology from antiquity to the present. (Format: Lecture 3 Hours)

### PSYC 3991 (3.00 CR)
### SPECIAL TOPIC IN PSYCHOLOGY

**Prereq:** Third-year standing; PSYC 1001; PSYC 1011; 6 credits from PSYC at the 2000 level

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PSYC 3991 more than once, provided the subject matter differs.] (Format: Variable)

### PSYC 4101 (3.00 CR)
### ADVANCED TOPICS IN BEHAVIOURAL NEUROSCIENCE

**Prereq:** Third-year standing; PSYC 2101; 6 credits from PSYC at the 3000 level; or permission of the Department

Advanced seminar on the relation between brain and behaviour. (Format: Seminar 3 Hours)

### PSYC 4111 (3.00 CR)
### ADVANCED TOPICS IN CONDITIONING

**Prereq:** Third-year standing; PSYC 3111; 6 credits from PSYC at the 3000 level; or permission of the Department

Advanced seminars on Pavlovian conditioning, operant conditioning and other forms of learning in animals and people. (Format: Seminar 3 Hours)

### PSYC 4201 (3.00 CR)
### ADVANCED TOPICS IN COGNITION

**Prereq:** Third-year standing; PSYC 2201; 6 credits from PSYC at the 3000 level; or permission of the Department

Advanced seminars on subjects of current theoretical interest in the psychology of attention, memory and thought. (Format: Seminar 3 Hours)

### PSYC 4301 (3.00 CR)
### ADVANCED TOPICS IN SOCIAL PSYCHOLOGY

**Prereq:** Third-year standing; PSYC 2301; 6 credits from PSYC at the 3000 level; or permission of the Department

An advanced seminar on selected topics of current theoretical interest in the study of social behaviour. (Format: Seminar 3 Hours)

### PSYC 4401 (3.00 CR)
### ADVANCED TOPICS IN DEVELOPMENTAL PSYCHOLOGY

**Prereq:** Third-year standing; 3 credits from PSYC 2401, 2411, 2431, 3421; 6 credits from PSYC at the 3000 level; or permission of the Department

This course is designed to provide a deeper understanding of the methods and concepts of developmental psychology through intensive treatment of specific research areas. (Format: Seminar 3 Hours)

### PSYC 4411 (3.00 CR)
### ADVANCED TOPICS IN ADULTHOOD AND AGING

**Prereq:** Third-year standing; 3 credits from PSYC 2421, 3421; 6 credits from PSYC at the 3000 level; or permission of the Department

This course will use a seminar format. Specific topics in the field of Adulthood and Aging will be explored in depth (e.g., health and communication across adulthood, collaborative cognition, memory and comprehension of verbal and written information, etc). Theory and research methodology in life-span psychology will also be covered. (Format: Seminar 3 Hours)

### PSYC 4421 (3.00 CR)
### ADVANCED TOPICS IN SOCIAL DEVELOPMENT

**Prereq:** Third-year standing; PSYC 2431; 6 credits from PSYC at the 3000 level; or permission of the Department

This course provides a thorough examination of specific topics in social development, for example, attachment, abnormal social development, and emotional development of the child. It focuses on current theoretical and methodological issues in the chosen topic area. (Format: Seminar 3 Hours) (Exclusion: PSYC 4501 Advanced Topics in Social Development)

### PSYC 4601 (3.00 CR)
### ADVANCED TOPICS IN PSYCHOPATHOLOGY

**Prereq:** Third-year standing; PSYC 2601; 6 credits from PSYC at the 3000 level; or permission of the Department

This course presents an in-depth examination of theory and research pertinent to a topic of current interest in the field of Psychopathology. (Format: Seminar 3 Hours)

### PSYC 4611 (3.00 CR)
### ADVANCED TOPICS IN HEALTH PSYCHOLOGY

**Prereq:** Third-year standing; PSYC 2611; 6 credits from PSYC at the 3000 level; or permission of the Department

This research seminar in psychoneuroimmunology examines how interactions among behaviour, the nervous system, and the immune system influence health. The broad focus is on relationships among brain, behaviour, and immunity from a life-span perspective and on the implications for disease management within various areas of behavioural medicine.(Format: Seminar 3 Hours) (Exclusion: PSYC 4501 Advanced Topics in Health Psychology)

### PSYC 4701 (3.00 CR)
### ADVANCED TOPICS IN PERSONALITY

**Prereq:** Third-year standing; PSYC 2701; 6 credits from PSYC at the 3000 level; or permission of the Department

This course presents an in-depth examination of theory and research pertinent to a topic of current interest in the field of Personality. (Format: Seminar 3 Hours)

### PSYC 4903 (3.00 CR)
### HONOURS SEMINAR

**Coreq:** PSYC 4990

A seminar for honours students in Psychology that will involve consideration of metatheoretical, psychometric, and ethical issues that inevitably arise in the course of virtually any type of psychological inquiry. In addition to the critical evaluation of classic articles on these topics, students will make periodic presentations of their own ongoing research, which will be open to all members of the Department. (Format: Seminar 2 Hours)

### PSYC 4950 (6.00 CR)
### INDEPENDENT STUDY IN PSYCHOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for PSYC 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### PSYC 4951 (3.00 CR)
### INDEPENDENT STUDY IN PSYCHOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for PSYC 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### PSYC 4990 (6.00 CR)
### HONOURS THESIS

**Coreq:** PSYC 4903

The senior thesis will involve an experimental research project carried out in close consultation with a member of the Department. (Format: Independent Study/Thesis)

### PSYC 4991 (3.00 CR)
### SPECIAL TOPIC IN PSYCHOLOGY

**Prereq:** Third-year standing; 6 credits from PSYC at the 2000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for PSYC 4991 more than once, provided the subject matter differs.] (Format: Variable)

# RELIGIOUS STUDIES

Religion deals with the most basic and ultimate questions of human existence: the meaning and purpose of life; the presence of death, sorrow and anxiety; the existence of God; questions of morality and justice; the possibilities of transcendence, salvation, and liberation for individuals and communities. Religion plays a central role in the construction of human cultures and societies, motivating and legitimating social, political, and ethical action. Religion has been and continues to be a powerful influence in literature, the arts, and history, as well as in current civil and global conflicts.

Religious Studies as an academic discipline does not indoctrinate in any religious tradition (though it may certainly help students clarify their own thinking and convictions). Rather, it takes a scholarly and analytical approach, and, as such, is open to students from all backgrounds, secular and religious. The academic study of religion examines the various religious traditions of the world, east and west, in their historical and contemporary contexts. It explores the various ways in which religion shapes culture and history, forms values, and authorizes human action. Thus Religious Studies is an integral part of the liberal arts curriculum.

Courses in Religious Studies are divided into three streams: Eastern Traditions (Hinduism, Buddhism, East Asian Religions), Western Traditions (Judaism, Christianity, Islam), and Religion and Culture. Introductory courses (at 1000 and 2000 level) lay the foundation for focused study of particular traditions and for courses that explore how religion relates to themes in the wider culture - such as in the arts, gender issues, and ethics (at 3000 and 4000 level).

The Humanities 1600-series is intended to provide an introduction to Humanities disciplines. These three-credit courses offered by the participating disciplines of Classics, History, Philosophy and Religious Studies are designed to acquaint beginning students with the methodologies typical of these disciplines and to familiarize them with the approaches taken as well as the sorts of themes pursued and questions raised in these disciplines.

Further information is available on request from the Department Office, Room 112, Hart Hall (364-2556).

## RELIGIOUS STUDIES ELECTIVES

Those who wish to do electives may choose from Religious Studies courses in the 1600 series: 1641, 1651, and 1671; or from 2401, 2801, 2811, 2821, 2831, or 2841; or with appropriate prerequisites, several other courses in the Department.

## Disciplinary B.A. Programs

### MINOR in Religious Studies is 24 credits earned as follows:

6 from the Humanities 1600 Series
6 from Religious Studies at the 2000 level
12 from Religious Studies at the 3/4000 level, chosen in consultation with the Program Advisor

### MAJOR in Religious Studies is 60 credits earned as follows:

6 from the Humanities 1600 Series
9 RELG 2401, 2411, 2521, 2801, 2821, 2831, 2841
3 RELG 3901
3 from RELG 3001 or 3101
3 from RELG 3301 or 3311
6 from RELG 3501, 3601,3701
12 from 3/4000 level Religious Studies courses, with at least 6 from 4000 level Religious Studies courses
18 credits from complementary courses in Arts and Letters, Humanities and Social Sciences (which may include upto 6 additional credits from 2000 level Religious Studies courses if the Humanities 1600 series courses above are from other Humanities disciplines), chosen in consultation with the Program Advisor

### HONOURS in Religious Studies is 72 credits earned as follows:

60 credits as in the Major, plus:
6 from RELG 4990
6 from Religious Studies at the 3/4000 level, chosen in consultation with the Program Advisor

## RELIGIOUS STUDIES COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

#### RELG 1621 (3.00 CR)
#### DEATH AND THE AFTERLIFE IN ASIAN RELIGIONS

This course examines the practices and beliefs concerning death and the afterlife in six religious traditions: Buddhism, Confucianism, Daoism, 'folk' or 'popular' religion, Shinto, and Hinduism. It compares beliefs and practices related to death and the afterlife in these traditions and examines the diversity that exists both between and within these religions. (Format: Lecture 3 hours) (Exclusion: RELG 1991 Death and the Afterlife in Asian Religions)

#### RELG 1641 (3.00 CR)
#### RELIGION, THE BODY, AND SEXUALITY

This course investigates the role the human body plays in the world's Western religious traditions (predominantly Judaism, Christianity, and Islam), namely, how the body affects or facilitates worship of the divine and what the related rites, practices, and texts have to say to us as physical beings. It considers such issues as bodily functions, gender roles, and sexual orientation. The course pays considerable attention to the intersections of religion and culture as they inform what it means to be an embodied believer. It also considers why the human imagination seems to need to conceive the divine in bodily form. (Format: Lecture 3 Hours) (Exclusion: Any version of RELG 1641 previously offered with a different title)

### RELG 1661 (3.00 CR)
### RELIGION AND POPULAR CULTURE

This course examines various points at which religion and culture collide. Various media will be utilized (film, music, fashion, literature) in order to interpret some of the complex relationships that form and maintain contemporary Western identity. Topics covered will include cultural uses of religious symbolism and story, the power of popular piety, and the Western tendency towards consumption and commodification of religious traditions. (Format: Lecture 3 Hours)

### RELG 1671 (3.00 CR)
### SACRED SPACE AND HOLY LAND

This course examines how the phenomena of "sacred space" and "pilgrimage", or "sacred journey", originate and give expression to core beliefs, symbols, and devotion of various world religions. Particular attention is focused upon ancient and contemporary Jerusalem, a hotly contested site of holiness for Jews, Christians, and Muslims. (Format: Lecture 3 Hours) (Exclusion: RELG 1671 Sacred Space and Pilgrimage)

### RELG 1681 (3.00 CR)
### THE QUEST FOR ENLIGHTENMENT: THE SEARCH FOR PERFECTION IN ASIAN RELIGIONS

This course treats the theme of the spiritual quest in Asian religions. Surveying some of the major Asian religions (Hinduism, Buddhism, Jainism, Confucianism, Taoism, and Shinto) it explores the nature of the highest state thought to be achievable by humans and how that state is realized. Topics may include the role of morality, love, and human relationships in that quest, the place of rituals and institutions, and the vision for society. This course looks at both classical and contemporary views on these issues and situates them within their relevant socio-historical context. (Format: Lecture 3 Hours)

### RELG 1991 (3.00 CR)
### SPECIAL TOPIC IN RELIGIOUS STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for RELG 1991 more than once, provided the subject matter differs.] (Format: Variable)

### RELG 2401 (3.00 CR)
### INTRODUCTION TO EASTERN RELIGIONS

This course introduces the origins, history, philosophy and practice of the major religions of India, China, and Japan, including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, and Shinto. (Format: Lecture 3 Hours) (Exclusion: RELG 2211)

### RELG 2411 (3.00 CR)
### MOTHER EARTH, FATHER SKY: RELIGION, HUMANS, AND NATURE

**Prereq:** 3 credits from RELG 1600 series; or permission of the Department

This course investigates religious moral thought through the lens of nature and environmental issues. It explores various religious perspectives, both Asian and Western, on topics such as the meaning of nature and the place of humans in it, the value of landscapes and ecosystems, whether animals have moral standing and how they should be treated, and how current environmental problems should be understood and approached. (Format: Lecture 3 Hours)

### RELG 2521 (3.00 CR)
### FOOD PRACTICES AND EAST ASIAN RELIGIONS

**Prereq:** 3 credits from RELG 1600 series; or permission of the Department

This course examines the practices and beliefs associated with food in five East Asian religious traditions: Buddhism, Confucianism, Daoism, 'folk' or 'popular' religion, and Shinto. It introduces religious prescriptions and prohibitions related to food cultivation, storage, distribution, preparation, and consumption. Topics include connections between food practices and hierarchy and the roles that food plays in creating and sustaining relationships such as those between humans, living and dead, and non-humans. (Format: Lecture 3 Hours) (Exclusion: RELG 2991 Food Practices and East Asian Religions)

### RELG 2801 (3.00 CR)
### INTRODUCTION TO WESTERN RELIGIONS

This course examines the history, beliefs, practices, and contemporary socio-cultural significance of what are conventionally called the Western religions: Judaism, Christianity, and Islam. The course will also briefly examine Ancient Near Eastern religions (Egyptian and Mesopotamian), Greco-Roman paganism, as well as Zoroastrianism and Baha'i. (Format: Lecture 3 Hours) (Exclusion: RELG 2201)

### RELG 2811 (3.00 CR)
### INTRODUCTION TO THE BIBLE I: HEBREW BIBLE

An introduction - in English translation - to the literature of the Hebrew Bible, or Old Testament. Selected passages are discussed in the context of Israel's history, religion, and society, set against the backdrop of the Ancient Near Eastern civilizations of Egypt and Mesopotamia. We will seek to understand why these texts and the religion they represent have been so influential and in what ways they still illuminate and speak to the human situation today. (Format: Lecture 3 Hours) (Exclusion: RELG 2001)

### RELG 2821 (3.00 CR)
### INTRODUCTION TO THE BIBLE II: NEW TESTAMENT

This course discusses the literature of the New Testament, in English translation, in light of the historical and cultural conditions from which it emerged. The New Testament is analyzed both as a witness to Jesus and to Christian origins, and as a text which has exerted enormous creative power within human culture and history. (Format: Lecture 3 Hours) (Exclusion: RELG 2011)

### RELG 2831 (3.00 CR)
### FAITH AND DOUBT

This course introduces the disciplines of theology and philosophy of religion within the Western theistic (Jewish/Christian) tradition. It considers the sometimes ambivalent relationship between reason and religious experience. Topics include rational proofs for the existence of God, religious self-understanding, the problem of evil, and the relationship between religious belief and scientific reason. (Format: Lecture 3 Hours) (Exclusion: RELG 2501)

### RELG 2841 (3.00 CR)
### THE APOCALYPTIC CONSCIOUSNESS

A study of the apocalyptic consciousness in ancient documents and in modern thought, particularly with reference to ideas about the Day of Judgment and Second Coming. In addition to biblical and non-biblical texts, students will reflect on contemporary portrayals of the apocalyptic image in art, literature and film. Modern manifestations of the apocalyptic cult will be explored, with specific reference to cults of expectation. (Format: Lecture 3 Hours) (Exclusion: RELG 2031)

### RELG 2991 (3.00 CR)
### SPECIAL TOPIC IN RELIGIOUS STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for RELG 2991 more than once, provided the subject matter differs.] (Format: Variable)

### RELG 3001 (3.00 CR)
### HINDUISM

**Prereq:** 3 credits from RELG 1681, 2401, 2411; 3 credits from RELG at the 1/2000 level; or permission of the Department

A study of Hinduism, examining its origins, history, philosophy, and culture. The course will treat ancient, classical, medieval and modern periods, and conclude with a discussion of the challenges facing contemporary Hinduism. (Format: Lecture 3 Hours) (Exclusion: RELG 3261)

### RELG 3101 (3.00 CR)
### BUDDHISM

**Prereq:** 3 credits from RELG 1681, 2401, 2411; 3 credits from RELG at the 1/2000 level; or permission of the Department

A study of Buddhism, examining its origins, history, philosophy and cultures. The course will treat the three major strands of classical Buddhism, and conclude with an analysis of the growing phenomenon of Western Buddhism. (Format: Lecture 3 Hours) (Exclusion: RELG 3271)

### RELG 3301 (3.00 CR)
### RELIGIONS OF CHINA

**Prereq:** 3 credits from RELG 1681, 2401, 2411; 3 credits from RELG at the 1/2000 level; or permission of the Department

This course will study the religious traditions of China, examining the basic ideas and concepts underlying Chinese religion and the ways in which these ideas were implemented. The course will look in detail at both Confucianism and Daoism, at Chinese folk religion, and at the adaptation of Buddhism to China. It will conclude with an evaluation of the current state of religion in China. (Format: Lecture 3 Hours)

### RELG 3311 (3.00 CR)
### RELIGIONS OF JAPAN

**Prereq:** 3 credits from RELG 1681, 2401, 2411; 3 credits from RELG at the 1/2000 level; or permission of the Department

This course will study the religious traditions of Japan, examining the underlying ideas and concepts of Shinto, including its relation to Shamanism, the nature and role of Kami, the role of purity and aesthetics, and its political functions. The introduction and adaptation of Buddhism and its relation to Shinto will be discussed, as will the modern day "new religions" which form such a vital part of contemporary Japanese religious practice. The influence and roles of Confucianism and Daoism will also be briefly covered. (Format: Lecture 3 Hours)

### RELG 3321 (3.00 CR)
### SACRED PLACE IN EAST ASIA

**Prereq:** 3 credits from RELG 1641, 1681; 3 credits from RELG 2401, 2411, 2521; or permission of the Department

This course focuses on the ways in which sacred sites have been constituted and transformed in five East Asian religious traditions: Buddhism, Confucianism, Daoism, 'folk' or 'popular' religion, and Shinto. By analysis of diverse primary source materials the course aims to enhance understanding of the complex processes by which sites are singled out as worthy of devotion to address the question: what needs have the establishment, preservation, recreation, and destruction of sacred places met in particular times and territories? (Format: Lecture 3 Hours) (Exclusion: RELG 3991 Sacred Space in East Asia)

### RELG 3411 (3.00 CR)
### GENDER ISSUES IN EASTERN RELIGIONS

**Prereq:** 3 credits from RELG 1641, 1681; 3 credits from RELG 2401, 2411; or permission of the Department

This course examines the role that gender plays in the context of myths, scriptural texts, rituals and doctrine, in the major religious traditions of the East. It examines such matters as sexuality and sexual orientation, the body, feminism and other critical approaches, political rights and responsibilities, access to religious experience, and spiritual leadership. (Format: Seminar 3 Hours)

### RELG 3481 (3.00 CR)
### RELIGION IN CANADA

**Prereq:** 3 credits from HIST 1601, HIST 1621, HIST 2411, HIST 2421, HIST 2011, HIST 2031, RELG 2801 and RELG 2831; 3 credits from HIST or RELG at the 1/2000 level; or permission of the Department

This course surveys the history of religion in Canada from the pre-European period to the 1980s. It focuses on religious traditions that developed or were established early in Canadian history - aboriginal, Christian, and Jewish - but others are also included. The content includes both traditional topics such as influential individuals, writings, and institutions in relation to the state and public life, as well as themes from the newer socio-cultural history of religion. [Note 1: This course is cross-listed as HIST 3481 and may therefore count as 3 credits in either discipline.] (Format: Lecture 3 Hours)

### RELG 3501 (3.00 CR)
### JUDAISM

**Prereq:** 3 credits from RELG 2801, 2811, 2841; 3 credits from RELG 1600 series; or permission of the Department

This course examines the roots and various expressions of Judaism in the ancient world up to the destruction of Jerusalem by the Romans in 70 CE and the rise of Rabbinic Judaism. Jewish life in the medieval world and the Islamic East, as well as the emergence of Kabbalah, are also discussed. The course then examines the emergence of various expressions of modern Judaism, including religious Zionism. The core convictions, sacred texts, institutions, and practices of Judaism will be analyzed within these historical contexts. (Format: Lecture 3 Hours) (Exclusion: RELG 3241)

### RELG 3601 (3.00 CR)
### CHRISTIANITY

**Prereq:** 3 credits from RELG 1600 series; 3 credits from RELG at the 2000 level; or permission of the Department

This course examines in detail the enormous breadth and richness of the Christian tradition, beginning with its historical and theological roots in the Jewish tradition and ending with some of the challenges faced in the contemporary world. It traces a path through key topics including theological thought, mystical experience, devotional practice, artistic expression, and ideological influence. The aim is to represent Christianity in its many facets and forms so as to appreciate its fundamental and ongoing significance in shaping Western cultural identity. (Format: Lecture 3 Hours)

### RELG 3611 (3.00 CR)
### CHRISTIANITY IN THE ROMAN EMPIRE

**Prereq:** 3 credits from RELG 2801, 2821, 3601; 3 credits from RELG 1600 series; or third or fourth year History Major; or permission of the Department

This course examines the crucial, defining crises of the ancient Christian communities in the social, political, and cultural context of Late Antiquity (roughly, 2nd to 6th centuries CE/AD). It analyzes early Christianity as a social movement, as a religious movement with a developing belief system, and as an historical phenomenon embedded within historical events and processes. [Note 1: This course is cross-listed as HIST 3611 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours)

### RELG 3621 (3.00 CR)
### THE CONSTRUCTION OF CHRISTENDOM: THE HISTORY OF CHRISTIANITY DURING THE MEDIAEVAL ERA

**Prereq:** 3 credits from HIST 2001, HIST 2011, RELG 2801, RELG 2821, RELG 2831, RELG 2841; 3 credits from HIST or RELG at the 2000 level; or permission of the Department

This course traces the history of Christianity, emphasizing the Roman communion, from the fifth to the mid-fifteenth century. It investigates the development of the institutional church; the evolution of forms of devotional observance, manifested in art and architecture, literature, and the liturgy; and the varied expressions of criticism and dissent aimed at the doctrinal teaching and conduct of clergy. [Note 1: This course is cross-listed as HIST 3621 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: HIST/RELG 3620; any version of HIST/RELG 3621 previously offered with a different title)

### RELG 3631 (3.00 CR)
### THE FRACTURING OF CHRISTENDOM: THE REFORMATION ERA

**Prereq:** 3 credits from HIST 2001, HIST 2011, HIST 2031, RELG 2801, RELG 2821, RELG 2831, RELG 2841; 3 credits from HIST or RELG at the 2000 level; or permission of the Department

This course treats the history of Christianity during the fifteenth and sixteenth centuries, an era when the unity of mediæval western Christendom was driven by series of reformations: Protestant, Radical, and Catholic. It investigates the ecclesiastical, intellectual, political, and social circumstances and consequences of dramatic religious change. [Note 1: This course is cross-listed as HIST 3631 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours) (Exclusion: HIST 3131)

### RELG 3661 (3.00 CR)
### THE CHRISTIAN TRADITION AND THE UNIVERSITY

**Prereq:** 3 credits from RELG 2801, 2831, 3601; 3 credits from RELG 1600 series; or permission of the Department

This course will introduce students to a consideration of the relationship between the Christian tradition and the origins and philosophy of the university, science, education and the liberal arts. The student will be encouraged to explore the complex inter-relatedness of litterae and religio and scientia, especially the creative tensions among these ways of knowing. (Format: Lecture 3 Hours) (Exclusion: RELG 2601)

### RELG 3671 (3.00 CR)
### IN THE IMAGE OF GOD: UNDERSTANDING THE CHRISTIAN SELF

**Prereq:** 3 credits from RELG 2831, 3601; 3 credits from RELG 1600 series; or permission of the Department

This course begins with the scene in Genesis where humanity is created in the image of God. It considers the various ways in which the human experience and the quest for meaning have been described, analyzed, and explained from theological and philosophical perspectives. Topics include the possibility of knowing God, the nature of the relationship between the human and the divine, the logic of resurrection, and the possibility of hope and ultimate meaning. (Format: Lecture 3 Hours)

### RELG 3701 (3.00 CR)
### ISLAM

**Prereq:** 3 credits from RELG 1671, 2801; 3 credits from RELG at the 1/2000 level; or permission of the Department

This course traces Islam from its origins in the life and activities of Mohammed through to contemporary world Islam and its diverse responses to the challenges of "modernity" and the West. The world view, institutions, rituals, and practices of Islam will be studied within these changing historical and cultural contexts. Effort will be made throughout to gain insight into the religious, spiritual impulses which animate Islam and unite devout Muslims. (Format: Lecture 3 Hours) (Exclusion: RELG 3291)

### RELG 3811 (3.00 CR)
### GENDER ISSUES IN WESTERN RELIGIONS

**Prereq:** 3 credits from RELG 1600 series; 3 credits from RELG at the 2000 level; or permission of the Department

This course examines the role that gender plays in the context of myths, scriptural texts, rituals and doctrine, in the major religious traditions of the West. It examines such matters as sexuality and sexual orientation, the body, feminism and other critical approaches, political rights and responsibilities, access to religious experience, and spiritual leadership. (Format: Seminar 3 Hours)

### RELG 3821 (3.00 CR)
### THE WORD MADE TEXT: INTERMEDIATE TOPICS IN BIBLICAL STUDIES

**Prereq:** 3 credits from RELG 1600 series; 3 credits from RELG 2811, 2821; or permission of the Department

This course considers what the Bible means and how we should interpret it. It builds upon knowledge of the basic content of the Bible (Hebrew Bible and New Testament), as well as some of the methods or mechanics of biblical interpretation discussed in RELG 2811 and 2821. The course offers the opportunity for close and critical readings of a variety of biblical texts, allowing for the investigation of numerous interpretive approaches such as historical, poetic, narrative, and ideological. Overall the goal is for students to become competent and self-aware readers of the Bible. (Format: Lecture 3 Hours)

### RELG 3891 (3.00 CR)
### INDIAN PHILOSOPHY

**Prereq:** 6 credits from PHIL; or permission of the Department

A study of selected primary sources in the Indian philosophical tradition, from the Vedas and Upanishads to the recent work of thinkers like S. Radhakrishnan. Topics usually include the nature of reality, moral obligation, Divinity, selfhood and freedom, the philosophy of love, and various social and political issues. [Note 1: This course is cross-listed as PHIL 3891 and may therefore count as three credits in either discipline.] (Format: Lecture 3 Hours)

### RELG 3901 (3.00 CR)
### APPROACHING THE ULTIMATE: THEMES AND THEORIES IN RELIGIOUS STUDIES

**Prereq:** 3 credits from RELG 1600 series; 3 credits from RELG at the 2000 level; or permission of the Department

This course examines various kinds of religious phenomena, including mystical experience, sacred texts, religious ethics, and ritual, and explores the different ways the discipline of Religious Studies understands and interprets them. It explores major theoretical approaches, including text-historical, phenomenological, gender-critical, philosophical, and cultural-critical, and assesses them critically for their value in the study of religion. [Note 1: This is a required course for all Majors and Honours students in Religious Studies and is recommended for those taking a Minor.] (Format: Lecture 3 Hours) (Exclusion: Any version of RELG 3901 previously offered with a different title)

### RELG 3911 (3.00 CR)
### CONTEMPORARY ETHICAL ISSUES IN WESTERN RELIGIONS

**Prereq:** 3 credits from RELG 2411, PHIL 2701; 3 credits from RELG 1600 series; or permission of the Department

This course considers the nature of ethics and explores some of the most prominent contemporary ethical issues, such as abortion, euthanasia, ecology, gay rights, racism, and sexism. (Format: Seminar 3 Hours) (Exclusion: Any version of RELG 3911 previously offered with a different title)

### RELG 3921 (3.00 CR)
### CONTEMPORARY ETHICAL ISSUES IN EASTERN RELIGIONS

**Prereq:** 3 credits from RELG 2411, PHIL 2701; 3 credits from RELG 1600 series; or permission of the Department

This course considers the response of Eastern Traditions' to contemporary ethical issues, such as those of abortion, euthanasia, ecology, and bio-medical technologies. The course looks at both classical and contemporary perspectives. (Format: Seminar 2 Hours) (Exclusion: Any version of RELG 3921 previously offered with a different title)

### RELG 3931 (3.00 CR)
### THE BIBLE AND THE ARTS

**Prereq:** 3 credits from RELG 2811, RELG 2821; 3 credits from RELG 1600 series; or permission of the Department.

This course will explore major biblical themes in the art and literature of the western world, looking at ways in which themes such as creation, liberation, salvation, resurrection, and fulfilment have been portrayed and interpreted in literature, the visual arts and music. The focus will be on the widespread influence of the Bible and biblical motifs on Western culture. (Format: Lecture 3 Hours)

### RELG 3941 (3.00 CR)
### RELIGION, REVOLUTION AND VIOLENCE

**Prereq:** 3 credits from RELG 1600 series; 3 credits from RELG at the 2000 level; or permission of the Department.

This course examines the development and historical manifestations of ideologies of violence and nonviolence within the major world religions, with special attention to how these ideologies continue to play themselves out in contemporary global and national conflicts. (Format: Lecture 2 Hours) (Exclusion: RELG 3231)

### RELG 3971 (3.00 CR)
### RELIGION IN FILM

**Prereq:** RELG 3901; 3 credits from RELG 1600 series; 3 credits from RELG at the 2000 level; RELG 2811, 2821 recommended; or permission of the Department

This course examines the cultural legacy and/or influence of various religious traditions and scriptural texts in the modern medium of film. It begins, with an examination of some great religious "epics", and then considers more recent cinematic treatments of religious themes and figures. (Format: Lecture 2 Hours, Laboratory 2.5 Hour)

### RELG 3981 (3.00 CR)
### RELIGIOUS ETHICS AND THE ENVIRONMENT

**Prereq:** 3 credits from RELG 2411, PHIL 2701; 3 credits from RELG 1600 series; or permission of the Department

This course investigates the role that various religions play in human interaction with the environment and explores how religions are responding or not responding to environmental problems. It examines various religious perspectives on nature and examines critically scholarship which applies religious perspectives to issues in environmental ethics. It also considers the religious basis of contemporary environmental thinkers and movements and examines the worldview assumptions and values that underlie so-called secular approaches to environmental issues.(Format: Seminar 3 Hours)

### RELG 3991 (3.00 CR)
### SPECIAL TOPIC IN RELIGIOUS STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for RELG 3991 more than once, provided the subject matter differs.] (Format: Variable)

### RELG 4401 (3.00 CR)
### ASCETICS, SAINTS, AND SCOUNDRELS: ASIAN RELIGIOUS THEMES IN LITERATURE

**Prereq:** 6 credits from RELG 3001, 3101, 3301, 3311, 3921, 3811, 3981; or permission of the Department

This course examines several genres such as those found in Hindu and Buddhist literature. The course begins with a study of selected classical texts and concludes with a discussion of selected Asian and Western contemporary literary works. (Format: Seminar 3 Hours) (Exclusion: Any version of RELG 4401 previously offered with a different title)

### RELG 4411 (3.00 CR)
### ADVANCED STUDIES IN EASTERN THOUGHT

**Prereq:** 6 credits from RELG 3001, 3101, 3301, 3311, 3921, 3811, 3981; or permission of the Department

This course focuses on the philosophical traditions of Hinduism and Buddhism. It examines both classical systems of thought and their modern interpretations. (Format: Seminar 3 Hours)

### RELG 4421 (3.00 CR)
### EASTERN RELIGIONS AND THE CHALLENGE OF MODERNITY

**Prereq:** 3 credits from RELG 1681, 2401, 2411; 3 credits from RELG 3001, 3101, 3301, 3311; or permission of the Department

This course examines the contemporary state of Eastern Religions. It discusses the recent histories of Eastern Religions, and looks at the challenges of science, consequences of colonialism, movements of political independence, and issues of poverty and social justice. It studies particularly these traditions' encounter with the West, and their responses to the cultural exchange that ensues from this encounter. (Format: Seminar 3 Hours)

### RELG 4521 (3.00 CR)
### KEY RELIGIOUS TEXTS OF EAST ASIA

**Prereq:** 6 credits from RELG 3001, 3101, 3301, 3311, 3321, 3811, 3921, 3981; or permission of the Department

This course examines the significance in East Asian religion of a selected single religious text. Combining a careful reading of this document with the analysis of closely related primary source materials and important secondary scholarship, it explores relationships between texts and the social, political, economic, and religious contexts of their creation and circulation. (Format: Seminar 3 Hours)

### RELG 4611 (3.00 CR)
### REINVENTING THE SACRED: CHRISTIANITY IN THE POST-SECULAR WEST

**Prereq:** 6 credits from RELG 3601, 3901; or permission of the Department

This course considers the relationship between the Christian tradition and contemporary Western culture and looks at contemporary re-articulations of Christian beliefs, practices, and understandings. It examines from a cultural- critical perspective how thinkers have been forced to reformulate and modify traditional positions and beliefs in order to accommodate what are often vastly differing or at least unpredictable circumstances. This course considers how such innovations may reveal new ways forward in terms that are social, political, ethical, spiritual, and possibly even conventional. Ultimately it invites students to reflect on how these perspectives might enable the West to re-imagine its future possibilities in ways that are challenging and transformative for both the Christian tradition and Western identity. (Format: Seminar 3 Hours)

### RELG 4811 (3.00 CR)
### THE DIVINE LIGHT OF REASON: ADVANCED TOPICS IN WESTERN THOUGHT

**Prereq:** 9 credits from RELG 3601, 3671, 3901; or permission of the Department

This course examines the theology and philosophy of religion as they bear on Western religious traditions. It explores the strengths and limitations of theological perceptions and philosophical concepts as these apply to traditional religious issues such as the power of death, the possibility of hope and the ineffability of religious experience. Topics may include reformulating sacramental theology; comparing theological anthropology and phenomenology; reconciling biblical language and post-structuralism; and examining the incommensurate parameters of divine presence. (Format: Seminar 3 Hours)

### RELG 4821 (3.00 CR)
### THE AUTHORITY OF THE TEXT: MEANING AND SACREDNESS IN WESTERN SCRIPTURE

**Prereq:** RELG 3901; 3 credits from RELG 3811, 3931, 3941, 3971; or permission of the Department

This course examines the nature of scripture and what (or who) gives it authority. Through study of the related phenomena of interpretation, sacredness, and canonicity in biblical traditions, this course addresses questions of the origins of sacred texts and how such texts establish and sustain the religious, cultural, and social lives of communities. It explores how and with what results culturally and historically diverse interpretive communities have made fresh appropriations of scriptural traditions through various strategies of interpretation. It also asks what is at stake in these deliberations, who benefits, and how power operates or shifts via the various ideological mechanisms that serve to authorize scripture. (Format: Seminar 3 Hours) (Exclusion: Any version of RELG 4821 previously offered with a different title)

### RELG 4841 (3.00 CR)
### SEXUALITY AND THE BIBLICAL TRADITION

**Prereq:** RELG 3901; 3 credits from RELG 3821, 3931; or permission of the Department

This course explores the history of sexuality in biblical and post-biblical traditions. Through the close reading of biblical texts it examines the Bible's treatment of the subject of sex including bodily purity, reproduction and sexual orientation. It also looks at the Bible's influence on this subject in the history of Judaism, Christianity, and the modern, secular era. (Format: Seminar 3 Hours)

### RELG 4861 (3.00 CR)
### THE QUEST FOR THE HISTORICAL JESUS

**Prereq:** RELG 2821; 3 credits from RELG 3611, 3821; or permission of the Department

This course explores the scholarship of the historical Jesus, providing an overview of the attempts to reconstruct the Jesus of history as distinct from the Jesus of church tradition. It places particular emphasis on the biblical and non-biblical sources used and methodologies of enquiry employed. (Format: Seminar 3 hours) (Exclusion: RELG 4991 The Quest for the Historical Jesus)

### RELG 4950 (6.00 CR)
### INDEPENDENT STUDY IN RELIGIOUS STUDIES

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for RELG 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### RELG 4951 (3.00 CR)
### INDEPENDENT STUDY IN RELIGIOUS STUDIES

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for RELG 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### RELG 4953 (3.00 CR)
### INDEPENDENT STUDY IN RELIGION

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for RELG 4953F/W more than once, provided the subject matter differs.] (Format: Independent Study)

### RELG 4990 (6.00 CR)
### HONOURS THESIS

Independent research and thesis writing under the direction of a member of the Department, for students in the Religious Studies Honours program. [Note 1: Permission of the Department is required.] (Format: Independent Study/Thesis)

### RELG 4991 (3.00 CR)
### SPECIAL TOPIC IN RELIGIOUS STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for RELG 4991 more than once, provided the subject matter differs.]

# SCIENCE

## SCIENCE COURSE

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Co-ordinator must be obtained.

### SCIE 1001 (3.00 CR)
### CONTEMPORARY TOPICS IN SCIENCE

This course is designed to explore the science behind issues of current concern through reading and discussion of recent scientific articles, and through taking an in-depth look at the associated scientific principles. Laboratory exercises may be used to expose students to techniques used in modern scientific and technological research and development. [Note 1: Permission of the Instructor is required. Note 2: This course may not be taken by students registered in B.Sc. programs, nor does it count as a science course for the B.Sc. degree] (Format: Lecture 3 Hours, Tutorial 1.5 Hours)

# SOCIOLOGY

Sociology involves the study of people as they interact with one another in varied social-structural, cultural and historical contexts. Sociology provides information on the social world, introduces students to different perspectives on social life, and offers training in specific research skills. It expands our horizons, challenges us to think critically about the world around us, and prepares us to participate in that world First and second year sociology courses provide an overview of the discipline and an introduction to sociological analysis. Third year courses emphasize theoretical approaches, analytical methods, and their application to major substantive areas of sociological interest. Fourth year courses allow students to work with greater interdependence and in more depth on a range of sociological topics.

## Disciplinary B.A. Programs

### MINOR in Sociology is 24 credits earned as follows:

6 from SOCI 1001, 1201
6 from Sociology at the 2000 level
3 from SOCI 3001,3011
3 from SOCI 3301,3311
6 from Sociology at the 3/4000 level

### MAJOR in Sociology is 60 credits earned as follows:

6 from SOCI 1001, 1201
6 from Sociology at the 2000 level
12 from SOCI 3001, 3011, 3301, 3311
3 from SOCI 3701, 3711, 3721, 3731, 3741, 3751, 3761
6 from Sociology at the 3000 level
6 from Sociology at the 4000 level
3 from Sociology at the 2/3/4000 level
18 from complementary courses in Social Sciences, Humanities, Arts and Letters, Psychology, or MATH 2311, 2321, 3311, 3321

### HONOURS in Sociology (Thesis Option) is 66 credits earned as follows:

39 credits as in the first six lines of the Major, plus:
21 from Sociology at the 2/3/4000 level including at least 6 at the 3/4000 level
6 from SOCI 4990

### HONOURS in Sociology (Course Option) is 66 credits earned as follows:

39 credits as in the first six lines of the Major, plus:
27 from Sociology at the 2/3/4000 level, including at least 12 at the 3/4000 level of which at least 6 must be at the 4000 level

## SOCIOLOGY COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of

the appropriate Department Head or Program Co-ordinator must be obtained.

### SOCI 1001 (3.00 CR)
### INTRODUCTION TO SOCIOLOGY

The course is designed to introduce students to the basic concepts of sociology. These concepts include social structure, culture, socialization, deviance, social control, social organization, structured social inequality, and social change. Extensive use is made of examples from the Canadian context. (Format: Lecture 3 Hours)

### SOCI 1201 (3.00 CR)
### SOCIOLOGICAL IMAGINATION

**Prereq:** SOCI 1001; or permission of the Department

This course explores the major theoretical frameworks of sociology and the conceptual tools used to examine intersecting social relations embedded in everyday practices. It focuses on understanding how biographical characteristics are influenced by impersonal historical forces and significant structural transformations of society. The examination of sociological imagination lays the foundation for understanding how to differentiate between 'personal troubles' and 'public issues'. (Format: Lecture 3 hours)

### SOCI 1991 (3.00 CR)
### SPECIAL TOPIC IN SOCIOLOGY

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SOCI 1991 more than once, provided the subject matter differs.] (Format: Variable)

### SOCI 2111 (3.00 CR)
### SOCIAL CLASS AND INEQUALITY

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permission of the Department

This course is intended as an introductory examination of social inequalities and stratification in Canada based primarily on issues relating to class. This course guides students through an understanding of historic class formations in Canada to more modern analyses and understandings of class as related to neo-liberal and global economies. As well, this course looks at the intersections of class with gender, race, and disability as it relates to social inequalities and stratification. (Format: Lecture 3 Hours) (Exclusion: SOCI 2991 Social Class and Inequality)

### SOCI 2121 (3.00 CR)
### RACE AND RACIALIZATION

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permision of the department

This course uses sociological perspectives to examine the social construction of "race" in historical and contemporary contexts. The course analyzes and students critically examine evidence of systemic patterns of advantage and disadvantage based on migration, racism, ethnicity, and aboriginality in national and global contexts. It explores the effects of racialization on social, political, and academic discourse as well as policy responses, resistance movements, and alternatives for reducing and eliminating racism. (Format: Lecture 3 Hours)

### SOCI 2211 (3.00 CR)
### GENDER RELATIONS

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permission of the Department

This course introduces the study of gender through an examination of the nature of gender relations. It also considers major theories of the origin and consequences of gender inequality and addresses issues such as reproduction, work, law, violence, and racism with a focus on Canadian examples. (Format: Lecture 3 Hours) (Exclusion: SOCI 3211)

### SOCI 2221 (3.00 CR)
### SOCIOLOGY OF YOUTH

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permision of the department

This course explores youth in relation to contexts of social structure (culture, family and peer groups), within institutions, and from local as well as global perspectives. This course looks critically at the social construction of youth in schools, families, the media, and other social institutions. It examines how socio-political factors affect youth, the agency of youth as citizens and decision-makers, and the importance of social positions such as race, sexuality, gender, nationality, and socioeconomic status. (Format: Lecture 3 Hours) (Exclusion: SOCI 3991 Sociology of Youth)

### SOCI 2231 (3.00 CR)
### SOCIOLOGY OF SEX AND SEXUALITY

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permission of the department

This course examines sexual attitudes, beliefs, and behaviors from a sociological perspective, exploring how the biology of sex is sociologically constructed. It examines and explores theoretical and conceptual issues and empirical research and directs students to think about sexuality analytically and critically and to develop a sociological understanding of diverse issues. Topics include: sexual identity and its construction and regulation; sexuality and the Enlightenment; science and sex; ethics and social institutions; and the relationship between sexuality and the socio-political process. [Note 1: This course is normally offered only through Correspondence.] (Format: Lecture 3 Hours) (Exclusion: SOCI 2991 Sociology of Sex and Sexuality)

### SOCI 2401 (3.00 CR)
### COLONIALISM, RACISM, AND INDIGINEITY IN CANADA

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permission of the Department

This course explores the position of Indigenous people in Canadian society by focusing on the social dimensions of race, ethnicity, and aboriginality. The course also considers the extent to which racism, patriarchy, capitalism, power, privilege, and access to resources contribute to the marginalization of Indigenous peoples and focuses particularly on socially constructed relationships that emphasize and perpetuate social inequality and stratification. (Format: Lecture 3 hours)

### SOCI 2991 (3.00 CR)
### SPECIAL TOPIC IN SOCIOLOGY

**Prereq:** SOCI 1201; or 3 credits from 2000 level Sociology; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SOCI 2991 more than once, provided the subject matter differs.] (Format: Variable)

### SOCI 3001 (3.00 CR)
### THEORETICAL FOUNDATIONS OF SOCIOLOGY

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course offers a critical review of the perspectives developed in the first and second generations of sociology in Europe with special emphasis on the ideas of Auguste Comte, Herbert Spencer, Karl Marx, Max Weber, and Emile Durkheim. (Format: Lecture 3 Hours)

### SOCI 3011 (3.00 CR)
### CONTEMPORARY SOCIOLOGICAL THEORY

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course provides an overview of concepts, theoretical issues, and debates in recent sociological theory. It examines the nature of functionalism and conflict theory, the rise of micro-sociological analysis, the challenges of feminism, the debate over post-modernism, and other contemporary theoretical developments. (Format: Lecture 3 Hours)

### SOCI 3221 (3.00 CR)
### WORK AND SOCIETY

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course explores the nature and meaning of work in relation to changes in the position of professions, unions, government, women, and minority groups in industrial and post-industrial societies. It also includes consideration of topics such as the relations between work and the family, work and gender, and work and politics. While focusing on work in Canada this examination is also located in broader international trends and processes. (Format: Lecture 3 Hours)

### SOCI 3231 (3.00 CR)
### SOCIOLOGY OF THE FAMILY

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course examines major elements in the complex relationship between families and society. Rather than assuming a universal model of the family, this course treats families as diverse social entities that are supported or constrained by economic factors, gender ideologies, racial inequality, sexual norms, and socio-political changes. (Format: Lecture 3 Hours) (Exclusion: SOCI 2991 Sociology of the Family)

### SOCI 3301 (3.00 CR)
### QUANTITATIVE SOCIOLOGICAL RESEARCH METHODS

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This is a course in sociological research methodology, including a consideration of questions of social epistemology and research design. Students gain practical experience in doing social research through the conducting of surveys, data analysis, introductory statistical procedures, content analysis, case studies, and other techniques. (Format: Integrated Lecture and Laboratory 3 Hours) (Exclusion: Any version of SOCI 3301 previously offered with a different title)

### SOCI 3311 (3.00 CR)
### QUALITATIVE SOCIOLOGICAL RESEARCH METHOD

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course examines the ways in which qualitative data are collected, analyzed, and used in the social sciences. Beginning with understanding the theory and theoretical debates of qualitative research, the course explores questions of definition, use, evidence, standards of rigour, and notions of what constitutes 'good' scientific evidence. The course covers a variety of theoretical orientations and explores how and when they are best applied. (Format: Integrated Lecture and Laboratory 3 Hours)

### SOCI 3331 (3.00 CR)
### FIELD COURSE IN SOCIOLOGY

This course is designed to provide students with an intensive field experience, during which they pursue research on a topic to be chosen by the Instructor. As such, the course is not designed to be offered during the Fall and Winter terms , but may be available to students in the Spring/Summer term. Completion of SOCI 3301 (Sociological Research Methods) is recommended before registering for this course. [Note 1: Permission of the Department is required.] (Format: Lecture 3 Hours)

### SOCI 3431 (3.00 CR)
### CRITICAL MEDIA ANALYSIS

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This is an advanced research course on the media-based control of information and dissemination of ideologies in modern society. It examines issues of ownership and control of the media and the social construction of news, and current theoretical debates in media analysis. (Format: Lecture 3 Hours)

### SOCI 3451 (3.00 CR)
### DYNAMICS OF POPULAR CULTURE
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course investigates the processes and forms of contemporary popular culture. It introduces students to the major theoretical debates in the field of popular culture and examines the development of popular cultural expression. (Format: Lecture 3 Hours)

### SOCI 3511 (3.00 CR)
### SOCIOLOGY OF HEALTH & ILLNESS
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course explores health, illness, and health care from a sociological perspective. The course focuses on the social determinants of health, demonstrates how social structures influence the occurrence of illness, examines why some social groups suffer more sickness and disease than others, deconstructs the social construction of medical practices and medicalization, and shows how health practices are socially constructed. (Format: Lecture 3 Hours)

### SOCI 3521 (3.00 CR)
### COMMUNITIES
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course reviews the sociological literature on rural, small-town, and urban social organization with special emphasis on the notion of "community" in Canadian society. (Format: Lecture 3 Hours)

### SOCI 3531 (3.00 CR)
### EDUCATION AND SOCIETY
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course examines education as a social institution. Focusing primarily on public education at the elementary and secondary level, this course addresses the changing context of the learning environment and its relation to diverse aspects of society including class, gender, and race. This course employs various theoretical lenses to explore the social construction of public education in Canada, tracing its changing nature and purpose from its inception to more modern times. (Format: Lecture 3 Hours) (Exclusion: SOCI 2531)

### SOCI 3541 (3.00 CR)
### POPULATION AND SOCIETY
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course examines population dynamics and social change within nations and globally. Students study national population trends and policy debates as these relate to global population issues. Topics include Canadian and global patterns of population growth; fertility; family planning; famine, disease, and mortality; social security and aging; international migration; and ethnic composition. Social inequality, environmental limits and food supply, and principles of social justice inform a critique of population trends in the evolving world system of regions and nations. (Format: Lecture 3 Hours)

### SOCI 3551 (3.00 CR)
### CITIZENSHIP, IDENTITY & DIFFERENCE
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course explores identity and difference in relation to national and post-national forms of citizenship. Students examine contemporary discourses of Canadian identity, immigration, diversity, multiculturalism, and belonging. The course considers what it means to be a citizen, ideas of home, access to rights for dominant and subordinate groups, the dynamics of inclusion and exclusion in the nation and globally, and struggles for recognition among ethnic minority groups. The course also analyzes social inequalities in citizenship practice, the renegotiation of citizenship rights, and the emergence of new forms of citizenship in Canada and globally. (Format: Lecture 3 Hours)

### SOCI 3701 (3.00 CR)
### SOCIAL POLICY ANALYSIS
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course provides the opportunity for students to apply sociological theories and perspectives to the development and analysis of social policies and programs. Social policy is the arena in which citizens, professionals, non-governmental organizations, social movements, and government address the social inequities underlying the lived realities of individuals. The course leads to an understanding of how sociology can be applied in researching, developing, analyzing, and implementing 'real world' social policies and programs. [Note 1: This course is normally offered only through Correspondence.] (Format: Lecture 3 hours)(Exclusion: SOCI 3991 Social Policy)

### SOCI 3711 (3.00 CR)
### COMPARATIVE SOCIAL POLICY
**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course provides students with a comparative perspective on social welfare policies in Canada and other industrialized nations. Students examine the various ways that countries conceptualize and organize social welfare policies, especially those that have an impact on poverty, child and family well-being, and gender equality. The course emphasizes change, culture, polity, and economic forces as important factors in shaping social policies throughout the world and assesses the strengths and weaknesses of a variety of empirical and theoretical models. [Note 1: This course is normally offered only through Correspondence.](Format: Lecture 3 Hours) (Exclusion: SOCI 3991 Comparative Social Policy)

### SOCI 3721 (3.00 CR)
### NON-PROFIT ORGANIZATIONS

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course provides students with theoretical perspectives and empirical research connected to the sociology of organizations. Students explore the history, magnitude, and trends of the non-profit sector in Canada. Topics include the dynamics of the non-profit, government, and for-profit sectors; the history of the social roles of volunteerism and non-profit organizations; the impact of non-profit organizations on society; and the changing roles of the three sectors in the twenty-first century. [Note 1: This course is normally offered in the Spring term and through Correspondence.] (Format: Lecture 3 Hours) (Exclusion: SOCI 2991 Non-Profit Leadership)

### SOCI 3731 (3.00 CR)
### APPLIED SOCIAL RESEARCH

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course draws on a broad range of theoretical principles in sociology and sociological research methods to analyze and recommend solutions for various social problems. Topics include establishing a research agenda and parameters, funding applied research, the relationship between goals and outcomes, measurement issues, program and evaluation processes, and client relations. A key component of the course is grant writing and communication in the professional setting. (Format: Lecture 3 Hours)

### SOCI 3741 (3.00 CR)
### SOCIOLOGICAL PRACTICE

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course introduces applied sociological practice beginning with a critical examination of the ethics, values, and historical development of the profession. It provides an opportunity for students to gain knowledge and skills to understand the role of the human services sector in a diverse and complex society. Students examine the organizational structures of governmental, non-government, and community agencies serving vulnerable populations; consider the exercise of power and control within organizations; and develop strategies to effect change. (Format: Lecture 3 Hours)

### SOCI 3751 (3.00 CR)
### SOCIOLOGY OF LEADERSHIP

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

The course provides hands-on opportunities for students to gain practical skills and experience in public service, social action, and community engagement, and to learn from experienced professionals and acquire relevant skills that can be applied in the work or voluntary sector. Students gain theoretical and methodological understanding of the role of organizational leadership, culture, complexity, and mobilization of resources for change. [Note 1: This course is normally offered in the Spring term and through Correspondence.] (Format: Lecture 3 Hours) (Exclusion: SOCI 1991 Sociology of Leadership)

### SOCI 3761 (3.00 CR)
### COMMUNITY HEALTH

**Prereq:** 6 credits from SOCI at the 2000 level; or permission of the Department

This course provides an introduction to the study of structural inequalities that contribute to health disparities, with an emphasis on geographic, identity-based, or virtual communities as the focus for research and intervention. It also considers the social justice implications and potential effectiveness of public health policies and programs and investigates the value of participatory community interventions in prevention, health promotion, and care with individuals, families, and community members. (Format: Lecture 3 hours)

### SOCI 3991 (3.00 CR)
### SPECIAL TOPIC IN SOCIOLOGY

**Prereq:** 6 credits from 2000 level; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SOCI 3991 more than once, provided the subject matter differs.] (Format: Variable)

### SOCI 4011 (3.00 CR)
### SOCIOLOGY OF KNOWLEDGE

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course focuses on the relationship between ideas and their social and cultural contexts. It critically examines various forms of knowledge, including common sense, scientific knowledge, and feminist epistemology. (Format: Seminar 3 Hours) (Exclusion: SOCI 3441)

### SOCI 4111 (3.00 CR)
### REPRESENTATIONS OF SOCIAL PROBLEMS

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course explores contemporary social problems through the lenses of social institutions, inequality, socioeconomic status, racialization, political and economic structures, and social policy. Relying on representations depicted in television, film, music, and literature, this course analyzes causes of major problems including drug use, crime, poverty, family, youth, education, discrimination, and urban problems. (Seminar 3 Hours)

### SOCI 4201 (3.00 CR)
### SOCIOLOGY OF HUMAN SERVICES

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course brings a critical and theoretical focus to the 'helping professions'. Drawing from contemporary social theory on institutions, power, and subjectivity, it investigates the landscape of non-governmental, governmental, and private charitable organizations within the human services. It also explores the tensions between non-governmental organizations and democracy in contemporary society and examines notions of power, welfare, and 'help' in the context of class, race, gender, medical status, and education in Canada. (Seminar 3 hours)

### SOCI 4211 (3.00 CR)
### CRITICAL CRIMINOLOGY

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course investigates contemporary concepts in critical criminology through examination of texts drawn from postmodern sociological theory, critical prison studies, cultural criminology, and the sociology of law. It examines the social constructions of deviance and crime and resulting practices of punishment, detention, policing, and control, and also considers the role of race, class, gender, age, and citizenship status as factors that result in a diversity of experiences with law, freedom, violence, and punishment. (Seminar 3 hours)

### SOCI 4311 (3.00 CR)
### COMMUNITY-BASED PARTICIPATORY RESEARCH METHODS

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course examines the emerging field of Community-Based Participatory Research (CBPR) and its applications through arts-based research initiatives. This course focuses on CBPR literature that highlights the benefits of active collaborations between communities and researchers and recognizes and values the contributions of community collaborators. (Format: Seminar 3 Hours) (Exclusion: SOCI 4991 Community-based Participatory Research Methods)

### SOCI 4501 (3.00 CR)
### POLITICAL SOCIOLOGY

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course examines the sociological practices that lead to political authority, structures of control, and relations of power that guide and influence social life. Starting from theoretical perspectives in political sociology, this course explores domestic and international examples of social and political practices that help sustain existing conditions while at the same time providing opportunities to transform society. Understanding agency and structure as elements of political action and participation, both in large group and communal settings and small-scale and individual actions, this course explores the multi-dimensional aspects of power and control in our society. (Format: Seminar 3 Hours) (Exclusion: SOCI 3501)

### SOCI 4511 (3.00 CR)
### SOCIAL MOVEMENTS

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course examines movements that seek change in the social and political structure of society. It surveys the major principles and perspectives used by sociologists to explain social movements and revolutions. It examines the origins, strategies, recruitment, consequences, decline, and renewal of various social movements and revolutions. (Format: Seminar 3 Hours) (Exclusion: Any version of SOCI 4511 previously offered with a different title)

### SOCI 4541 (3.00 CR)
### ADVANCED TOPICS IN EDUCATION

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course explores advanced issues in education as they relate to social problems. Exploring the reproductive and structural aspects of knowledge creation, this course moves toward an understanding of the contradictory elements of public education as it pertains to a post-industrial world fraught with inequalities. The course explores issues of schooling as it relates to work in institutions that are both preparatory for the workplace and places of work for teachers, administrators, and others. Lastly, this course uncovers opportunities for educational reforms that can contribute potentially to a more just society. (Format: Seminar 3 Hours)

### SOCI 4551 (3.00 CR)
### REFUGEE STUDIES

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course explores selected topics of the contemporary global refugee crisis and the role of Canada and international agencies in humanitarian assistance, resettlement, and return. The course addresses sociological analyses of the relationship between emergency responses and sustainable solutions to internal displacement and refugee flight. It considers, with respect to national and international refugee policies, socially significant differences among refugees according to gender, age, ethnicity, social class, country, and region of origin. (Format: Seminar 3 Hours)

### SOCI 4561 (3.00 CR)
### GLOBALIZATION AND TRANSNATIONALISM

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course examines selected topics of contemporary globalization in relation to transnational processes and forms. It analyzes transnational forms and practices of migration, migrant organization, community, identity, and belonging in relation to contemporary globalization. The course considers implications of interrelated global flows of people, culture, goods, and capital for social relations, social structure, and social change. (Format: Seminar 3 Hours)

### SOCI 4901 (3.00 CR)
### ISSUES IN SOCIOLOGY

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course involves a study of specific issues in Sociology. (Format: Seminar 3 Hours)

### SOCI 4950 (6.00 CR)
### INDEPENDENT STUDY IN SOCIOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for SOCI 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### SOCI 4951 (3.00 CR)
### INDEPENDENT STUDY IN SOCIOLOGY

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. (Format: Independent Study) [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for SOCI 4950/51 more than once, provided the subject matter differs.]

### SOCI 4990 (6.00 CR)
### HONOURS THESIS

[Note 1: Permission of the Department is required.] (Format: Thesis)

### SOCI 4991 (3.00 CR)
### SPECIAL TOPIC IN SOCIOLOGY

**Prereq:** 6 credits from SOCI 3001, 3011, 3301, 3311; or permission of the Department

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. (Format: Variable) [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for SOCI 4991 more than once, provided the subject matter differs.]

# SPANISH STUDIES

See Modern Languages and Literatures, Hispanic Studies

# WOMEN'S AND GENDER STUDIES

Women's and Gender Studies is an interdisciplinary program that investigates from critical gender perspectives social, cultural, economic, and political issues. Drawing on a substantial body of scholarship that challenges many of the assumptions and methods of traditional academic disciplines, Women's and Gender Studies creates new perspectives from which all students may analyze such issues as work, health, sexuality, violence, family, race, class, and ethnicity. The curriculum of the Minor in Women's and Gender Studies includes core courses in Women's and Gender Studies and elective courses in the following Departments or Programs: Anthropology, Canadian Studies, Classics, Drama, English, Fine Arts, Geography and Environment, History, International Relations, Modern Languages and Literatures, Music, Philosophy, Political Science, Psychology, Religious Studies, and Sociology. The core courses provide an introduction to the principles of Women's and Gender Studies as well as a more advanced study of the theoretical and methodological approaches of feminism.

## Interdisciplinary B.A. Programs

### MINOR in Women's and Gender Studies is 24 credits earned as follows:

| | |
|---|---|
| 9 | from WGST 1001, 2101, 3101 |
| 3 | from WGST 4001, 4950, 4951, 4991 |
| 12 | from CANA 3301, CLAS 2521, CLAS/HIST 2051, ENGL 3651, 3661, 4921, FINH 3081, GENV 3111, 4811, HIST 1671, 3251, 3471, 3531, 4461, 4571, FREN 3821, 3851 INLR 3001, MUSC 3231, 3241, PHIL 2301, POLS 3031, 4001, PSYC 3311, 3511, RELG 1641, 1661, 3411, 3811, 3821, 4841, SOCI 2211, WGST 1991, 2991, 3991, 4950, 4951, 4991<br><br>or from the following courses in any year when the Program Director approves that their content contains a significant Women's and Gender Studies component: ANTH 2231, 2401, 3101, 3531, 3861, 3871, 4021, 4421, 4621, ENGL 3561, GENV 2221, 4821, HIST 3361, 4901, PHIL 1611, 3711, RELG 3911, 3921, 4821, SOCI 3441, 3451 |

**Note:** Other courses from the following disciplines may also be approved by the Program Director when a significant Women's and Gender Studies component can be demonstrated: Anthropology, Art History, Canadian Studies, Classics, English, French, German, Geography and Environment, Greek Drama, History, International Relations, Latin, Music, Philosophy, Political Science, Psychology, Religious Studies, Spanish, and Sociology.

Students interested in using courses from other disciplines towards this Minor must receive approval in writing from the Program Director during the term in which they are taking the course.

## WOMEN'S AND GENDER STUDIES COURSES

**Note:** The listing of a course in the Calendar is not a guarantee that the course is offered every year.

**Note:** Students must obtain a grade of at least C- in all courses used to fulfill prerequisite requirements. Otherwise, written permission of the appropriate Department Head or Program Director must be obtained.

### WGST 1001 (3.00 CR)
### INTRODUCTION TO WOMEN'S AND GENDER STUDIES

This course introduces the core principles of the discipline of gender analysis and women-centered research and surveys key issues in current Women's and Gender Studies scholarship, including: social construction of sex, gender, race and sexuality; body politics; gender subordination; women's activism; and social change initiatives. (Format: Lecture/Tutorial 3 Hours)(Exclusion: WGST 2001)

### WGST 1991 (3.00 CR)
### SPECIAL TOPIC IN WOMEN'S AND GENDER STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for WGST 1991 more than once, provided the subject matter differs.] (Format: Variable)

### WGST 2101 (3.00 CR)
### GENDER, IDENTITY, AND CULTURE: SEXING THE BODY

**Prereq:** WGST 1001; or permission of the Program Director

This course examines human bodies in historical and contemporary socio-political contexts, investigating gender and embodiment both as an expression of individual identity and a production of complex social processes. Drawing upon scholarship on body politics in the interdisciplinary fields of Women's, Gender, and Sexuality Studies, it explores how bodies are simultaneously gendered, raced, classed, sexualized, and politicized through interpersonal, social, and institutional processes, including culture, science, medicine, and globalization. (Format: Lecture/Tutorial 3 Hours)

### WGST 2991 (3.00 CR)
### SPECIAL TOPIC IN WOMEN'S AND GENDER STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for WGST 2991 more than once, provided the subject matter differs.] (Format: Variable)

### WGST 3101 (3.00 CR)
### GENDER IN RESEARCH AND THEORY

**Prereq:** 3 credits from WGST 1001, 2101; or permission of the Program Director

This course examines theories of gender and power in society as well as feminist critiques and strategies relating to the construction of knowledge through research. Addressing both quantitative and qualitative research methodologies, it explores distinctive paradigms and perspectives, including feminist empiricism, standpoint theories, intersectionality, post-modernism, and transnationalism. Highlighting relevant contemporary issues and debates, it introduces the methods, techniques, and ethics involved in research. Both theoretical and practical approaches inform the assessment and development of feminist research design and gender analysis. (Format: Lecture/Tutorial 3 Hours)(Exclusion: WGST 3001; WGST 3021)

### WGST 3991 (3.00 CR)
### SPECIAL TOPIC IN WOMEN'S AND GENDER STUDIES

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for WGST 3991 more than once, provided the subject matter differs.] (Format: Variable)

### WGST 4001 (3.00 CR)
### CONTEMPORARY ISSUES IN FEMINISM AND GENDER STUDIES

**Prereq:** 3 credits from WGST 2001, 3001, 3021; or permission of the Program Director

This course provides opportunity for students to study in considerable depth and detail selected contemporary issues of feminism and gender in a global context. The course may focus on issues such as gender and social movements, politics of difference, theory and praxis debates, anti-feminist backlash, women and social change, femininities and masculinities, and feminist explorations of the body. (Format: Seminar 3 Hours) (Exclusion: WOST 4001)

### WGST 4950 (6.00 CR)
### INDEPENDENT STUDY IN WOMEN'S AND GENDER STUDIES

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for WGST 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### WGST 4951 (3.00 CR)
### INDEPENDENT STUDY IN WOMEN'S AND GENDER STUDIES

This course permits senior students, under the direction of faculty members, to pursue their interest in areas not covered, or not covered in depth, by other courses through a program of independent study. [Note 1: Permission of the Department/Program Advisor. Students must obtain consent of an instructor who is willing to be a supervisor and must register for the course prior to the last day for change of registration in the term during which the course is being taken. Note 2: A program on Independent Study cannot duplicate subject matter covered through regular course offerings. Note 3: Students may register for WGST 4950/51 more than once, provided the subject matter differs.] (Format: Independent Study)

### WGST 4991 (3.00 CR)
### SPECIAL TOPIC IN WOMEN'S AND GENDER STUDIES

**Prereq:** Second-year standing; or permission of the Program Director

This course either focuses on topics not covered by the current course offerings in a department or program or offers the opportunity to pilot a course that is being considered for inclusion in the regular program. [Note 1: Prerequisite set by Department/Program when the topic and level are announced. Note 2: When a Department or Program intends to offer a course under this designation, it must submit course information, normally at least three months in advance, to the Dean. Note 3: Students may register for WGST 4991 more than once, provided the subject matter differs.] (Format: Variable)

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