

# Mount Allison

U N I V E R S I T Y

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**2008 - 2009**

**ACADEMIC  
CALENDAR**

Sackville, New Brunswick, Canada

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# Mount Allison

## UNIVERSITY

Founded 1839

### **Administrative Offices:**

Located in Centennial Hall

### **Postal Address:**

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

### **Telephone Numbers:**

Student Services  
(506) 364-2269 (Phone)  
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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 Calendar is available in a print version as well as two online versions, in pdf format and in html format. The pdf format is a duplicate of the print version. To view the academic calendar online please visit [http://www.mta.ca/academic\\_dept/calendar.html](http://www.mta.ca/academic_dept/calendar.html). The University reserves the right to make changes after the publication of this Calendar. The html version of the Calendar will be updated to reflect any changes that occur before July 1.

### **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 printing. 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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# WELCOME TO MOUNT ALLISON UNIVERSITY

When you first arrive at Mount Allison, you know this University is special. The charming campus tells a tale of rich history, with historic buildings, antique books delicately bound, and stately portraits of past presidents and chancellors hanging in Convocation Hall. But Mount Allison also has its sights firmly set on the future. Underground, for example, the campus is connected by an intricate network of fibre-optic wiring, granting all on campus access to the Internet. Mount Allison was the first university in Canada to offer this access, and the University continues to embrace innovative technology in other new and exciting ways.

## 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 primarily an undergraduate, liberal arts and science university with a controlled enrolment of approximately 2,100 full-time students. It has preserved the character of a compact, scholarly community to foster excellence in teaching, mentoring and student-centred research. A strong emphasis on extra-curricular activities, ranging from athletics to the exercise of student government complements the dedication to high academic performance. Mount Allison strongly supports the philosophy of developing the "whole student" intellectually, spiritually, socially, culturally and physically. It shapes leaders who are critical thinkers, problem solvers and creative participants in society. Moreover, our students agree that Mount Allison is more than a university...it's a way of life. If there is one common thread to Mount Allison students, it is their academic strength and their propensity for leadership. Mount Allison has produced 47 Rhodes Scholars, more per capita than any other university in the Commonwealth. The University has also graduated a number of Rotary International Scholars, Commonwealth Scholars, and in 1997, one of the first winners of the Canadian Cambridge Scholarship. Many graduates have become preeminent in their endeavours. Notable alumni include: playwright John Gray; artists Alex Colville, and Mary and Christopher Pratt; national broadcaster Ian Hanoomansing; former Lieutenant-Governor of New Brunswick Margaret McCain; former Lieutenant-Governor of New Brunswick Marilyn Trenholme Counsell and former Imasco Chairman Purdy Crawford, who also served as Chancellor of Mount Allison.

## THE FACULTY

The University's faculty is talented and dedicated, exemplifying a strong blend of teaching and research. In a recent University survey, 100% of graduates felt their professors were approachable, which speaks volumes about the relationships between faculty and students at Mount Allison.

## 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 Biology and Chemistry and Certificates in Bilingualism. In 1995, it revised its curriculum to give students even greater "depth and breadth" to their education as they enter the 21st century. A series of majors and minors was developed in the traditional disciplines and in a number of interdisciplinary areas such as International Relations, Canadian Public Policy, Japanese Studies and Cognitive Science. 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. The revised requirements have resulted in very exciting intellectual opportunities for students, giving them a chance to examine problems and issues from a number of different perspectives. 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, 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.). 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.

## 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. Mount Allison boasts the oldest university art gallery in Canada; it was the first to wire all of campus to the information highway; it was the first to offer a Canadian Studies program; and it is a pioneer in the establishment of services for students with learning disabilities. In recent years, it has consistently been ranked among the top undergraduate universities in Canada by Maclean's magazine. 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 of silver spoons. After entertaining their guest, the Allisons 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 main Library. In June 1839, Sackville merchant Charles Frederick Allison proposed to the Wesleyan Methodists that a school of elementary and high 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, known as the "Ladies College", 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. The closure of the School for Girls in 1946, and the Academy in 1953, coincided with a period of expansion and provided much-needed space. In 1958, the beginning of a period of construction and acquisition of buildings eased the strain of overcrowding. At this time, it was decided to reaffirm the traditional aim of providing a high-quality undergraduate liberal arts education, along with continuing to offer professional programs in already-established fields. 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. The campus encompasses about 76 acres, 45 buildings and one million square feet of assignable space. The tree and shrub count is about 1,100, giving the campus a tranquil, park-like setting. The physical surroundings are enhanced even further by the Swan Pond, a symbol of Mount Allison since its introduction in 1901. It has traditionally been the site of picnics, cultural events, orientation activities and wintertime skating. Recent years have witnessed ongoing improvements to the facilities, including the opening of a new residence (Campbell Hall) and upgrades to a number of classrooms. One major project currently under way is the conversion of Trueman House from a residence into a new student centre. 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-

## 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: The Association of Universities and Colleges of Canada and The Association of Commonwealth Universities

# GLOSSARY OF ACADEMIC TERMS AND CALENDAR OF EVENTS

## 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 [6.1.8]

### 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**

A course or combination of courses that must be completed before registration in another course is permitted. 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

**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.

**CALENDAR OF EVENTS 2008-2009**

			Oct. 28	Tuesday	End of withdrawal period for Fall term 3 credit courses
May 5	Monday	Spring/Summer Term courses begin (Continuous Learning)	Nov. 5	Wednesday	Meeting of the Faculty Council
May 9	Friday	Last day for change in registration for Spring/Summer term courses	Nov. 10	Monday	Mid-term day of independent study — no classes
May 12	Monday	Last day to make fee payment without penalty for Spring/Summer term courses (excluding correspondence courses)	Nov. 11	Tuesday	Observance of Remembrance Day — no classes
May 15	Thursday	Registration Deposit Due for Fall/Winter terms - new students	Nov. 13	Thursday	Meeting of the Senate
May 19	Monday	Victoria Day - no classes	Nov. 21	Friday	Deadline for registration and residence deposits for students admitted for the Winter term
May 26	Monday	2008 Convocation. Spring term classes continue as scheduled.	Dec. 1	Monday	Meeting of the Faculty Council
May 30	Friday	End of withdrawal period for Spring/Summer term courses (excluding correspondence courses)	Dec. 4	Thursday	Last day of classes
June 6	Friday	Last day for returning students to make Registration Deposit for Fall/Winter terms without penalty	Dec. 8	Monday	Final exam period begins for the Fall term 3 credit courses and mid-year tests in 6 credit courses
June 6	Friday	Residence deposit due for new and returning students requiring residence accommodation	Dec. 11	Thursday	Meeting of the Senate
June 20	Friday	Last day of classes for Spring/Summer term	Dec. 18	Thursday	Last day for exams. Correspondence exams will be written on this date
June 30	Monday	Last day for full-time returning students to register for Spring/Summer correspondence courses	Dec. 24	Wednesday	University closed for holidays
August 25	Monday	Arrival of new international students, international orientation begins	<b>2009</b>		
August 28	Thursday	Arrival of new students, Commencement	Jan. 4	Sunday	Returning students may enter residence
August 29	Friday	Beginning of orientation, University Assembly	Jan. 5	Monday	University offices open
August 31	Sunday	Returning students may enter residence	Jan. 6	Tuesday	Classes begin. Deferred exams in first term 3 credit courses begin, in evening
Sept. 1	Monday	Labour Day — no classes	Jan. 13	Tuesday	Meeting of the Faculty Council
Sept. 2	Tuesday	Advising for new students. Supplemental and Correspondence Exams for eligible students	Jan. 16	Friday	Last day for change of registration in Winter term 3 credit courses
Sept. 3	Wednesday	Fall term classes begin. Deadline for October 2008 Graduation Application	Jan. 16	Friday	End of withdrawal period for year long 3 and 6 credit courses
Sept. 12	Friday	Last day for change in registration in Fall term 3 credit courses and in year long 3 and 6 credit courses	Jan. 19	Monday	Last day to pay account balance without penalty
Sept. 15	Monday	Last day to make Fall fee payment without penalty	Jan. 21	Wednesday	Meeting of the Senate
Sept. 23	Tuesday	Meeting of Senate	Feb. 12	Thursday	Meeting of the the Faculty Council
Sept. 30	Tuesday	Deadline for May 2009 Graduation Application	Feb. 19	Thursday	Meeting of the Senate
Oct. 2	Thursday	Meeting of the Faculty Council	Feb. 21 -	Saturday to	Week of independent study — no classes
Oct. 13	Monday	Thanksgiving Day — no classes	Mar. 1	Sunday	
Oct. 15	Wednesday	Meeting of the Senate and approval of October degree candidates	Mar. 2	Monday	Deadline for returning students to apply to transfer to Music program
			Mar. 5	Thursday	Meeting of the Faculty Council
			Mar. 6	Friday	End of withdrawal period for Winter term 3 credit courses
			Mar. 18	Wednesday	Meeting of the Senate
			Mar. 27	Friday	Deadline for returning students to apply to transfer to the B.F.A. program
			Apr. 7	Tuesday	Joint meeting of the Faculty Council and the Senate
			Apr. 9	Thursday	Last day of classes in Winter term
			Apr. 9	Thursday	Deadline for returning students to apply to transfer to B.A., B.Sc. or B.Comm programs
			Apr. 10	Friday	Good Friday
			Apr. 13	Monday	Final exam period begins

Apr. 23	Thursday	Last day for exams. Correspondence exams will be written on this date
May 11	Monday	Meeting of the Faculty Council
May 12	Tuesday	Meeting of the Senate
May 25	Monday	University Convocation

## PROVISIONAL CALENDAR OF EVENTS 2009-2010 (SUBJECT TO CHANGE)

May 4	Monday	Spring/Summer term courses begin (Continuous Learning)	Nov. 2	Monday	End of withdrawal period for Fall term 3 credit courses
May 8	Friday	Last day for change in registration for Spring/Summer term courses	Nov. 4	Wednesday	Meeting of the Faculty Council
May 11	Monday	Last day to make fee payment without penalty for Spring/Summer term courses (excluding correspondence courses)	Nov. 11	Wednesday	Observance of Remembrance Day — no classes
May 15	Friday	Registration Deposit Due for Fall/Winter terms - new students	Nov. 12	Thursday	Meeting of the Senate
May 18	Monday	Victoria Day - no classes	Nov. 20	Friday	Deadline for registration and residence deposits for students admitted for the Winter term
May 25	Monday	2009 Convocation	Nov. 30	Monday	Meeting of the Faculty Council
May 29	Friday	End of withdrawal period for Spring/Summer term courses (excluding correspondence courses)	Dec. 7	Monday	Last day of classes
June 5	Friday	Last day for returning students to pay Registration Deposit for Fall/Winter terms without penalty	Dec. 10	Thursday	Final exam period begins for the Fall term 3 credit courses and mid-year tests in 6 credit courses
June 5	Friday	Residence deposit due for new and returning students requiring residence accommodation	Dec. 10	Thursday	Meeting of the Senate
June 19	Friday	Last day of classes for Spring/Summer term	Dec. 19	Thursday	Last day for exams. Correspondence exams will be written on this date
June 30	Tuesday	Last day for full-time returning students to register for Spring/Summer correspondence courses	Dec. 23	Wednesday	University closed for the holidays
August 31	Monday	Arrival of new international students, international orientation begins	<b>2010</b>		
Sept. 3	Thursday	Arrival of new students, MY MTA Fair, Commencement	Jan. 3	Sunday	Returning students may enter residence
Sept. 4	Friday	Beginning of orientation, University Assembly (morning), Advising for new students (afternoon)	Jan. 4	Monday	University offices open
Sept. 5	Saturday	Supplemental and Correspondence Exams for eligible students	Jan. 5	Tuesday	Classes begin. Deferred exams in Fall term 3 credit courses begin, in evening
Sept. 6	Sunday	Returning students may enter residence.	Jan. 12	Tuesday	Meeting of the Faculty Council
Sept. 7	Monday	Labour Day — no classes	Jan. 15	Friday	Last day for change of registration in Winter term 3 credit courses
Sept. 8	Tuesday	Fall term classes begin. Deadline for October 2009 Graduation Application	Jan. 15	Friday	End of withdrawal period for year long 3 and 6 credit courses.
Sept. 18	Friday	Last day for change in registration in Fall term 3 credit courses and in year long 3 and 6 credit courses	Jan. 18	Monday	Last day to pay account balance without penalty
Sept. 21	Monday	Last day to make Fall fee payment without penalty	Jan. 20	Wednesday	Meeting of the Senate
Sept. 22	Tuesday	Meeting of the Senate	Feb. 11	Thursday	Meeting of the Faculty Council
Sept. 30	Wednesday	Deadline for May 2010 Graduation Application	Feb. 18	Thursday	Meeting of the Senate
Oct. 8	Thursday	Meeting of the Faculty Council	Feb. 20 - Feb. 28	Saturday to Sunday	Week of independent study — no classes
Oct. 12	Monday	Thanksgiving Day — no classes	Mar. 1	Monday	Deadline for returning students to apply to transfer to Music program
Oct. 14	Wednesday	Meeting of the Senate and approval of October Degree candidates	Mar. 4	Thursday	Meeting of the Faculty Council
			Mar. 8	Monday	End of withdrawal period for Winter term 3 credit courses
			Mar. 17	Wednesday	Meeting of the Senate
			Mar. 26	Friday	Deadline for returning students to apply to transfer to the B.F.A. program
			Apr. 2	Friday	Good Friday - no classes
			Apr. 6	Tuesday	Joint meeting of the Faculty Council and the Senate
			Apr. 9	Friday	Last day of classes in Winter term
			Apr. 9	Friday	Deadline for returning students to apply to transfer to B.A., B.Sc. or B.Comm programs
			Apr. 13	Tuesday	Final exam period begins
			Apr. 23	Friday	Last day for exams. Correspondence exams will be written on this date

May 13	Thursday	Meeting of the Faculty Council (morning)
May 13	Thursday	Meeting of the Senate (afternoon)
May 17	Monday	University Convocation

# 3 ADMISSION

## 3.1 CONTACT INFORMATION

All correspondence regarding admission should be submitted to the Office of Student Services, Mount Allison University, 65 York St., Sackville, NB, E4L 1E4; phone (506) 364-2269; e-mail <[admissions@mta.ca](mailto:admissions@mta.ca)>. Application forms and a viewbook providing full information on admissions procedures are available from the Office of Student Services and on the web at <[www.mta.ca](http://www.mta.ca)>

### 3.1.1 Students with Disabilities Contact Information

Students with Learning Disabilities may receive assistance from the Meighen Centre. When applying for admission to Mount Allison they are encouraged to identify themselves on the application form to Mount Allison and to contact The Meighen Centre as early as possible so that their needs can be addressed. Visit the Meighen Centre site on the web at <[www.mta.ca](http://www.mta.ca)>

Students with a disability other than a learning disability may receive assistance through the office of Student Life. When applying for admission to Mount Allison they are encouraged to identify themselves on the application form to Mount Allison and to contact the Student Life Office as early as possible so their needs can be addressed early. Visit the Student Life site on the web at <[www.mta.ca](http://www.mta.ca)>

## 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 Refusal of Admission

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

### 3.2.3 Special Circumstances

In special circumstances, a student lacking the specified requirements may be admitted.

### 3.2.4 Early Admission

Students may be offered a conditional offer of acceptance based on their final grade 11 marks in the first semester of their grade 12 year, providing they hold an 85% average on five academic courses, including English.

## 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.

### 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

## 3.5 NOTES ON ENTRY TO FIRST-YEAR COURSES

- Students enrolling in Chemistry 1001 should normally have completed a university preparatory-level\* course in Chemistry.
- Students enrolling in Computer Science 1631 should normally have completed a university preparatory-level\* course in Mathematics.
- Students enrolling in Economics 1001 and 1011 should normally have completed a university preparatory-level\* course in Mathematics.
- Students enrolling in Mathematics 1111 should normally have completed a university preparatory-level\* course in Mathematics designed to prepare them for university calculus.
- 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 General Certificate of Secondary Education, (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.

## 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 follow lectures and to 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:

- Successful completion of at least three years of instruction in Canada at a secondary institution as recognized by Mount Allison University
- 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
- TOEFL score of 550 (paper test) or 213 (computer test) or 80 (internet test)
- Michigan English Language Assessment Battery MELAB score of 85%
- International English Language Testing System (IELTS) score of 6.5
- Completion of the ELS USA Program with a score of 109
- Canadian Academic English Language Assessment CAEL with an overall score of 70, and no sub-test result below 60
- Certificate of Proficiency in English (CPE) by University of Cambridge English for Speakers of Other Languages (ESOL) with a minimum grade of 'C'
- Certificate of Advanced English (CAE) by University of Cambridge English for Speakers of Other Languages (ESOL) with a minimum grade of 'B'

Applicants who require enhanced English language proficiency have the option of taking advantage of Mount Allison's partnership with the International Language Institute (ILI) in Halifax, Nova Scotia. The ILI

assesses prospective students' needs and offers programs of varying lengths as necessary. An advantage to such students of the partnership with the ILI is that Mount Allison is able to grant conditional admission, which enables students to begin their visa application processes before completion of the ILI program. For more information on the ILI, please refer to [www.mta.ca](http://www.mta.ca) and [www.ili.ca](http://www.ili.ca)

### 3.8 MATURE STUDENTS

Mature applicants who have not satisfied the admission requirements will be considered for admission upon submission of evidence of ability and motivation to successfully undertake university-level study. Usually mature applicants will not have been registered as full-time students for at least five years.

### 3.9 ADMISSION WITH ADVANCED STANDING

#### 3.9.1 International Baccalaureate

The University grants up to 18 credits on a 120-credit degree program for higher level International Baccalaureate subjects completed with grades of 5 or higher. Up to 30 credits may be granted at the discretion of the Registrar to students who have completed the International Baccalaureate Diploma Program, with grades of 5 or higher.

#### 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 18 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.

#### 3.9.5 New Brunswick Community College

The University may grant up to 30 credits on a 120-credit degree program for appropriate courses completed at New Brunswick Community Colleges. The Registrar will determine suitable credits in consultation with appropriate departments.

### 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. For information regarding transfer credits for students transferring from other recognized post-secondary institutions, please see section 6.5.1 in the Academic Regulations Section. **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.**

### 3.11 SPECIAL CIRCUMSTANCES

Students may be admitted under special circumstances to individual courses which they are qualified to take.

### 3.12 GRADUATE STUDIES

For Admission requirements to the Master of Science program (Biology or Chemistry) please see the Master of Science program outline in the Academic Programs section 7.4.



# 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 Office of Student Services 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 Continuous Learning 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.

### 4.1.2 Tuition Fees

Tuition fees are finalized during May and will then be posted on the Student Services web page. Inquiries should be directed to the Office of Student Services.

The following are the 2007/2008 tuition fees. They are subject to change for the 2008/2009 Fall/Winter academic terms.

#### Full-Time Students

Undergraduate Tuition - Canadian	\$6,720.00
Undergraduate Tuition - Non-Canadian	\$13,440.00
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.

#### Part-Time Students

per six credit course - Canadian	\$1,344.00
per three credit course - Canadian	\$672.00
per six credit course - Non-Canadian	\$2,688.00
per three credit course - Non-Canadian	\$1,344.00

### 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 Continuous Learning 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 and Tuition for Senior Citizens

Courses may be audited for half the normal tuition. Special tuition discounts are available for senior citizens. Further information is available from the Office of Student Services.

### 4.1.5 Mail Service Fee and Fitness Facility Fee

All full-time students must have a University mail box and pay a \$7.50 non-refundable mail service fee per term. Part-time students may also receive mail service by paying the fee.

All full-time students must pay the Fitness Facility fee. The cost is \$40 for the full year and is paid in the Fall term. Part-time students may receive the service by paying \$20 per term to the secretary in the Department of Physical Recreation and Athletics.

### 4.1.6 Student Organization Fees

The per term student organization fees for full-time students, other than Graduate students and 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 are subject to change for the 2008/2009 Fall/Winter academic terms.

Mount Allison Students' Union Membership Fees	\$64.90
Mount Allison Students' Union Membership Fees for part-time students (Daytime)	\$32.45
Argosy (student newspaper)	\$10.50
CHMA (student radio)	\$18.00
Mount Allison Students' Union Library Acquisition Fee	\$7.50

### 4.1.7 Other Fees

The following fees are payable at the time of request:

Application for full-time admission (paper format)	\$60.00
Application for full-time admission (on-line format)	\$50.00
Application for part-time admission (paper format)	\$25.00
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
Supplemental examination	\$50.00
Special examination	\$50.00
Examination re-read	\$25.00
Diploma replacement (HST included)	\$50.00
Letter of Permission	\$25.00
Transcript	\$5.00
ID card replacement (HST included)	\$23.00
Returned cheque handling charge	\$35.00
Correspondence course extensions	\$30.00

## 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 Office of Student Services 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 Residence Communications and Meal Plan Fees

Residence communications and meal plan fees are finalized in May and will then be posted on the Student Services web page. Inquiries should be directed to the Housing Office, email address: <resroom@mta.ca>. The following are the 2007/2008 room communications and meal plan fees for the Fall/Winter academic terms. They are subject to change for the 2008/2009 Fall/Winter academic terms.

### Room

Double	\$3,636.00
Single	\$4,264.00
Super-single	\$4,501.00
Ensuite	\$4,769.00
Communications Fee	\$350.00

All students living in residence will be charged the communications fee. This provides for cable television, internet connection, local phone services and mini-fridge.

### Meals

7 day meal plan	\$3,412.00
14 meals per week	\$3,302.00
400 Block Plan	\$3,370.00
300 Block Plan	\$3,098.00
140 Block Plan (Includes HST)*	\$1,494.00

All residence students must choose one of four meal plans next year. Students will be asked to identify their preference when they send in their residence deposits. Students will be able to change plans during the month of September and will be able to upgrade at any time during the year paying the prorated additional charges. All meal plans including Block Plans commence in September and expire in April of each year. For more information please check with Dining Services.

\* Only available to students living in Thornton, Cuthbertson or Carriage.

## 4.1.10 Mountie Money

Mountie Money is mandatory for all meal plans. An initial amount of \$100 will be charged to the students account and is accessible through the students' ID card.

## 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 15, 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 June 6. Residence accommodations are guaranteed if all deposits are received on time and all other deadlines are met. 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 Office of Student Services, or by e-mail to <studentservices@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 June 6
\$400 by June 20
\$200 by July 11
\$150 by August 15
no refund after August 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 June 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 June 20, the University can no longer hold the student's room or guarantee any room in residence. Students who cancel their rooms by June 6 will be charged a \$25 room draw fee. Those who neither cancel their rooms nor pay their residence deposit by June 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:

- \$475 by June 6
- \$400 by June 20
- \$200 by July 11
- \$150 by August 15
- no refund after August 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.**

#### 4.2.6 Exchange Deposits

For students who have been accepted to one of the exchange programs offered by Mount Allison a non-refundable \$125.00 Exchange Deposit is due by March 31. This deposit is in addition to the Registration Deposit required in 4.2.4

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

A non-refundable \$100.00 Registration Deposit is due November 21, or such later date as may be specified in the offer of admission.

#### 4.2.8 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 21. Refunds of this deposit will be made as follows:

- \$250 by November 21
- \$100 by December 5
- No refund after December 5

### 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. To avoid problems created by postal service delays, please forward payments well in advance of their due dates. Cheques may be post-dated to the due dates.

#### 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 15, 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 Office of Student Services.

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 Office of Student Services, 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 19. Students are encouraged to use on-line banking or alternatively, leave post-dated cheques in the drop box, located outside the Office of Student Services, 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 Office of Student Services, 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 - Zhejiang

The Fall payment is due August 31.

##### Fall Payments - All Other Exchange Programs

The Fall payment is due September 15. 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 19. The amount of the Winter payment will be the tuition for the Winter term.

##### In-coming exchange students

In-coming exchange students who will be staying in Mount Allison residences should contact the Office of Student Services 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 <[www.mta.ca](http://www.mta.ca)>. Cheques, bank drafts or money orders, made payable to "Mount Allison University", can be mailed to the Office of Student Services or placed in the drop box located at the Office of Student Services. 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 Office of Student Services to discuss bridge financing.

## 4.4 LATE FEES AND INTEREST CHARGES

### 4.4.1 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.

### 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.

## 4.5 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 Dean of Students located in the Student Life Office, University Centre. Withdrawal is not effective until the Dean of Students 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 Office of Student Services 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 the Office of Student 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](http://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 Office of Student Services.

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 Office of Student Services regarding their eligibility for a credit.

All refunds are calculated from the date that students register for a correspondence course and the date that the written request for withdrawal is received by the Office of Student Services. 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 student registered for the course. A two week grace period is given to correspondence students to take into account the fact that materials often need to be sent to them before they can be expected to begin a course. There is no credit (refund) given 8 weeks after the student has registered in a correspondence course. (8 weeks include two weeks grace period).

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 date that written, faxed or e-mailed notification of withdrawal is received by the Office of Student Services.

There will be no fee charged for 3 credit courses having 2 classes per week dropped up to and including May 9\*.

All refunds are calculated from the date that Spring term courses start and the date that the written request for withdrawal is received by the Office of Student Services. 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 May 9. These courses may also be calculated differently for withdrawals after May 9. Please see Student Services.

#### 4.5.4 Withdrawals - Fall and Winter Continuous Learning, Moncton, Miramichi

All refunds are calculated from the date that Fall and Winter Continuous Learning Moncton or Miramichi courses start and the date that the written request for withdrawal is received by the Office of Student Services. 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.

#### 4.5.5 Residence and Meal Plan Withdrawals

Students wishing to withdraw from residence and/or the meal plan must begin the process with the Dean of Students located in the Student Life Office, University Centre. Withdrawal is not effective until the Dean of Students 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. 29-31)	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

<[studentservices@mta.ca](mailto:studentservices@mta.ca)>, or by faxing the Office of Student Services; fax (506) 364-2272, or leaving a voice mail message with the Dean of Students; phone (506) 364-2255. Any student who wishes counselling before making this decision should so inform the Dean of Students 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 Office of Student Services regarding their charges for the term. Any inquiries should be directed to the Office of Student Services.

#### 4.5.6 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 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.

#### 4.5.7 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 extra curricular 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 career in the field of Medicine will automatically be considered for the Goodridge Scholarship. The deadline for application is March 15.

### 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 15th. 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.* <[www.mta.ca](http://www.mta.ca)> or contact [financial\\_aid@mta.ca](mailto:financial_aid@mta.ca)

### 5.1.4 The Confederation Scholarships

The Mount Allison Confederation Scholarships, available to students from each Canadian province, recognize students who not only have high academic records, but who also display a commitment to good citizenship and community outreach.

The Mount Allison Confederation Scholarships are full-tuition entrance scholarships available to new students across Canada and are renewable at \$5,000 annually for three years. All students applying to Mount Allison by March 15 will be automatically considered for the Confederation Scholarship in their respective home provinces. One student from each province and one from the three territories will be selected. Two scholarships are available for each Maritime province. Two full-tuition (domestic) scholarships, also renewable for three years

at \$5,000 annually, are being offered to International Baccalaureate program graduates. And two renewable scholarships for domestic tuition fees for International Students will be offered.

### 5.1.5 Scholarships for Returning Students

All students who attend Mount Allison will be considered for scholarships after their first year of study. The University Scholarships will be awarded annually to students enrolled in a full course load and who are in the top ten percent of their program.

## 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 early in the term. Application forms are found on the Student Services web page.

### 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.

### 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.

## 5.3 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.

## 5.4 SPECIAL SUMMER RESEARCH SCHOLARSHIPS

Mount Allison students may apply for a Summer Research Scholarship which allows students to work closely with faculty by assisting in active research projects. This is an opportunity to better understand research methods and actively engage in research in areas of special interest.

R. Thomas M. Allan Summer Research Scholarship  
 Bell Junior Research Fellowships  
 Dr. Harold E. Bigelow Scholarship  
 R.P. Chapman Scholarship  
 Class of '46 Summer Scholarship  
 Crake Junior Research Fellowships  
 Goodridge Summer Fellowships  
 NBTEL Student Research Scholarship  
 Petrocan Research Fellowships  
 Universitas Research Fellowships

## 5.5 THE DONALD A. CAMERON STUDENT LOAN 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.

**Note:** See Appendix—sections 4 and 5 for listing of Scholarships and Bursaries

# 6 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.

## 6.1 REGISTRATION PROCEDURES

### 6.1.1 Registration Deadline

All full and part-time students must register each year according to procedures and time frames supplied by the Office of Student Services. Failure to do so results in a financial penalty and possible denial of registration in certain courses. In September and in January no students may register after the first two weeks of classes following registration, unless allowed on presentation of a medical certificate or on compassionate grounds approved by an Academic Dean.

### 6.1.2 Pre-Registration

Some academic departments require pre-registration of returning students for courses in their departments. For further information, please consult Department Heads.

### 6.1.3 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. However, students returning after an interval of a year or more during which time there has been a change in the curriculum, will be governed by the calendar in force when they return. Where necessary, an Academic Dean will interpret the student's past record in terms of the new curriculum.

Note: This regulation applies only to curriculum changes affecting a student's degree program, as outlined in Section 7 - Academic Programs and Section 9 - Programs and Courses of Instruction.

### 6.1.4 Determining Year Level

Students who have earned less than 24 credits have first year standing. Students must have earned 24 credits for second year standing, 54 credits for third year standing, and 84 credits for fourth year standing.

### 6.1.5 Normal Course Loads and Over Loads (Fall/Winter terms)

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 first year will not normally be permitted to register for more than 15 credits per term.
- Students in years 2 and 3 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 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.
- Students with fourth-year standing who are in Good Standing, may register for up to 18 credits per term. Students who do not meet this

requirement must have permission from the appropriate Academic Dean in order to register for overload credits. The permission of the appropriate Academic Dean is required for registration above 18 credits per term.

**Note:** Students in any program may add ensemble credits in Music to a normal course load.

### 6.1.6 Introductory Courses

First-year students may select any courses introductory to a discipline for which they have the prerequisites. These will normally be numbered at the 1000 or 2000 level.

### 6.1.7 Repeating Courses

No student may take the same course more than three times or be examined in it more than four times. No student may take an Applied Music course more than twice or be examined in it more than three times.

### 6.1.8 Auditing Courses

Students admitted to the university who wish to audit a course must obtain written permission of the instructor before formally registering for the course. The instructor may deny permission to audit the course. The nature and degree of class participation must be clarified in advance and is at the discretion of the course instructor. Students auditing a course will not write final examinations or receive a grade for the course. 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. 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. Registration and withdrawal deadlines apply to audited courses. Fees are payable as indicated in the Financial Information section of the calendar.

## 6.2 CHANGES IN REGISTRATION/PROGRAMS (FALL AND WINTER TERMS)

See Section 8 Continuous Learning for regulations that apply to the Spring/Summer term.

### 6.2.1 Deadline for Registration Changes

Registration changes for 3 credit Fall or Winter term courses are allowed until the second Friday of each term and for all 3 and 6 credit full year courses until the second Friday of the Fall term.

### 6.2.2 Withdrawal Without Penalty

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 and from a 6 credit course before the end of the second week in the Winter term. The withdrawal deadline for a full year 3 credit course is the same as for a 6 credit course.

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.

### 6.2.3 Withdrawal After the Deadline

A student who wishes to withdraw after the deadline because of illness or other sufficient reason may apply to the appropriate Dean for a 'W' designation.

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.

### 6.2.4 Changing Programs

A student wishing to transfer from one program to another must apply to the Office of Student Services for a transfer, not later than APRIL 15. For students applying for transfer to Commerce, the deadline is APRIL 15 of their second year of study. For students applying for transfer to Music, the deadline is MARCH 1. For a student applying for transfer to Fine Arts, the deadline is APRIL 1. Request for Change of Degree Program forms are available on the Student Services web page.

## 6.3 WITHDRAWAL FROM UNIVERSITY

A student may withdraw from the University without academic penalty by submitting written notification to the Dean of Students prior to the deadline for withdrawals from 3 and 6 credit courses as outlined in the Calendar of Events. A student who withdraws from the University after this time, will remain registered and will receive grades, and Regulation 6.12 (Standards of Performance) will apply unless the student is granted permission by an Academic Dean to withdraw without academic penalty because of illness or for other sufficient reasons.

## 6.4 ADVANCED PLACEMENT

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.

## 6.5 TRANSFER CREDITS

### 6.5.1 Students Transferring from another Institution

Students transferring from recognized institutions may be considered for admission with advanced standing. Such students may receive credits for courses previously completed as determined by the Registrar in consultation with the appropriate Academic Department or Academic Dean. Credit will only be granted if the course(s) count on a program at the original institution AND can be applied to programs offered by Mount Allison. 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. Transfer credits are recorded on the transcript with credit value only, no grade is recorded and they are excluded from the Grade Point Average. A maximum of 60 transfer credits may be credited toward a degree from Mount Allison. (See also Regulation 6.6.2 regarding transfer credit

limitations). Students transferring credits from another institution must provide the following:

- a) an official transcript pertaining to the credits, submitted directly to the Office of Student Services by the institution concerned.
- b) 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. (Please also refer to section 3.10)**

### 6.5.2 Taking Courses at another Institution

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 Student Services web page. Students must be in Good Standing to take courses on Letter of Permission at another university. 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. Transfer credits are recorded on the transcript with credit value only, no grade is recorded and they are excluded from the Grade Point Average.

## 6.6 DEGREE REQUIREMENTS

### 6.6.1 Credits Required for a Degree

All undergraduate degrees require completion of 120 credits.

### 6.6.2 Academic Residency Requirements

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 6.6.3
- iii) at least 6 credits of the requirements for a Minor.

Exceptions must be approved by an Academic Dean.

### 6.6.3 Transfer Credits at the 3/4000 Level

No more than six credits transferred at the 3/4000 level may be used to fulfill 3/4000 level requirements. Exceptions must be approved by an Academic Dean (see also regulations 6.5.1 and 6.5.2).

## 6.7 DEGREE WITH DISTINCTION REQUIREMENTS

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. To be considered for Distinction, a student should have maintained a Cumulative Grade Point Average (CGPA) of approximately 3.7 in all work undertaken at the University.

## 6.8 HONOURS DEGREE REQUIREMENTS

### 6.8.1 Total Credits

All degrees with Honours consist of at least 120 credits completed beyond the secondary school level. All candidates for these degrees must meet the average requirements outlined below.

### 6.8.2 Honours GPA and Overall GPA Requirements

A degree with First Class Honours requires attainment of a 3.7 Cumulative Grade Point Average in the prescribed Honours work; a degree with Honours requires attainment of a 3.0 Cumulative Grade Point Average in the prescribed Honours work. Unless a specific statement indicating otherwise appears after the Honours program description, all courses specified in the program are included in the calculation of the Honours average. When a thesis is part of the program, a minimum grade of B is required in all cases. In addition, a cumulative 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.

### 6.8.3 Submitting a Thesis

Bound copies of an Honours student's thesis must be submitted to the supervisor no later than the last day of the final examination period.

### 6.8.4 Falling Short of the Honours Requirements

Students failing to achieve the minimum standard for Honours as defined in 6.8.2, 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.

## 6.9 SECOND UNDERGRADUATE DEGREE REQUIREMENTS

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:

- the student should have demonstrated strong academic ability and must be approved by an Academic Dean.
- the student must fulfill all the requirements for the second degree
- the student must complete Mount Allison courses totaling at least 36 additional credits, beyond those required for the first degree.

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 a, b, and c apply.

## 6.10 HONOURS CERTIFICATE

Recipients of a first degree from Mount Allison earned with a Cumulative Grade Point Average of approximately 3.0 in both the last three years of the degree program and in the intended Honours discipline may apply to an Academic Dean to return as a candidate for an Honours Certificate. Application forms are available on the Student Services web page.

## 6.11 GRADING SYSTEM

### 6.11.1 Grading Policies for Courses

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, attendance and supplemental examinations. The same information shall also be provided to the Department Head and the appropriate academic Dean.

### 6.11.2 Deadline for Course Work

Course work must be completed prior to the deadline for submission of the final grades.

### 6.11.3 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+		3.3
B	Good	3
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+	Conditional	1.3
D	(non-continuing) Pass	1.0
D-		0.7
F	Failure	0.0
FE	Failure; eligible to write a supplemental examination	0.0
P	Results reported on Pass/Fail basis (Supplemental/Special Exams, Transfer credits)	excluded from the GPA
CP	Conditional Pass - may not be used to fulfill prerequisite requirements	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

Other Notations	Descriptor	GPA Equivalent
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	

### 6.11.4 Pre-requisite Grade Requirements

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 Head or Program Coordinator must be obtained.

### 6.11.5 Grades Excluded from GPA

Results from Supplemental and/or Special Examinations are reported on a Pass/Fail basis and are excluded from Grade Point Average calculations. Transfer credits are excluded from the Grade Point Average.

### 6.11.6 Calculation of TGPA, SGPA and CGPA

- 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.
- 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.
- 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.

### 6.11.7 Repeated Courses, SGPA and CGPA

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.

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.

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. All results from attempts at a course will remain on the transcript.

### 6.11.8 Reporting of Grades

Normally the deadline for submission of final grades will be within seven days of the end of the examination period. At the end of the Winter term, final grades for graduating students must be submitted within four days of the end of the examination period. Results are reported to students following each examination period, but grades are

not released until all accounts with the University have been paid. "Posting" of student grades is prohibited.

### 6.11.9 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:

- Application 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.
- 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 Student Services, 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 Student Services web page.

### 6.11.10 Evaluating Written Work

Evaluation of students' written work includes evaluation of the quality of the written English as well as of the subject material.

### 6.11.11 Aegrotat Standing

Aegrotat Standing (pass standing granted for medical reasons, although all course requirements have not been completed) may be granted in certain exceptional cases by Senate.

## 6.12 STANDARDS OF PERFORMANCE

### 6.12.1 Assessment of Academic Standing

**Academic standing is determined on the basis of the Session Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). Academic standing is assessed once per year at the end of the Winter term. Students will be assessed for the first time when they have attempted at least 18 credits.**

### 6.12.2 Good Standing

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.

Note: Students must be in Good Standing and have permission of the University for study abroad programs in which the University participates.

Note: 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 through Continuous Learning. Exceptions must be approved in writing by the appropriate Academic Dean.

### 6.12.3 Unsatisfactory Standing

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. 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. 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 Office of Student Services by the deadline specified (see 6.12.8 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.

**Note:** A Letter of appeal will only be forwarded to the Admissions and Re-admissions Committee for consideration if there are no outstanding fees payable on the student's account (see 4.4.4 in the Fees section).

### 6.12.4 Academic Performance Indicators

Student records are reviewed at the end of each academic term for academic progress. Academic Performance is recorded as Satisfactory (TGPA of at least 1.5) or Unsatisfactory (TGPA of less than 1.5). 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.

### 6.12.5 Academic Probation

Students who have been in Good Standing will be placed on Academic Probation if they attain:

- a) a Session Grade Point Average (SGPA) of less than 1.5 or
- b) a Cumulative Grade Point Average (CGPA) of at least 1.0 but less than 1.5.

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).

To return to Good Standing, students on Academic Probation must attain:

- a) a Session Grade Point Average (SGPA) of at least 1.5, during the probationary period AND
- b) a Cumulative Grade Point Average (CGPA) of at least 1.5.

Students on Probation are permitted to continue to register on Probation provided their SGPA during the probationary period is at least 1.5. Students on Probation who do not achieve a SGPA of 1.5 will be placed on Suspension.

Students on Academic Probation are not eligible to take courses on Letter of Permission or to register for correspondence courses offered

by Mount Allison through Continuous Learning. Exceptions must be approved in writing by the appropriate Academic Dean.

### 6.12.6 Academic Suspension

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.

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.

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 readmission at the end of the period of Academic Suspension. 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. 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. These must be received by the Office of Student Services 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. Application forms are available on the Student Services web page.

### 6.12.7 Academic Dismissal

Students who incur a second academic suspension are dismissed for three years. 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. Students may apply for readmission at the end of the period of Academic Dismissal. The terms of Academic Dismissal are effective until such time as the student applies for and is offered re-admission to the University. To seek re-admission following a period of Dismissal, students should complete a Former Student Application form and the Supplementary Questionnaire. These should be received by the Office of Student Services 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. Students returning after dismissal will be readmitted 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.

### 6.12.8 Procedures for Appeals and Re-admissions

Students who have been notified that their academic performance is such that they have been placed on Academic Probation, Academic Suspension or Academic Dismissal may appeal their academic standing. A Letter of appeal with all supporting evidence must be submitted to the Office of Student Services by the deadline specified in the notification. 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. 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.

### 6.12.9 Disciplinary Suspension or Dismissal

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". To seek re-admission following disciplinary suspension or dismissal, students should complete a Former Student Application form and the Supplementary Questionnaire. These must be received by the Office of Student Services 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. The Admissions and Re-admissions Committee will review the academic record only. Application forms are available on the Student Services web page.

### 6.12.10 Deans' List

Mount Allison recognizes excellent academic performance through the Dean's List. Deans' List standing is assessed once per year after grades have been submitted at the end of the Winter term. To be placed on the Deans' List, a student must:

- a) carry at least thirty credits over the academic session (May through April), including at least 24 credits taken in the Fall and Winter terms, and
- b) achieve a SGPA of at least 3.7 on that work

Students remain on the Deans' List until their Academic Standing is next assessed. The Deans' List carries no financial award.

### 6.12.11 Graduation Requirements

Students must be in Good Standing to be eligible to graduate.

## 6.13 ACADEMIC OFFENCES

### 6.13.1 Academic Dishonesty

All students at Mount Allison are expected to conduct themselves in an ethical manner in their academic work. It is the policy of the University that academic dishonesty will not be tolerated. The following offences constitute major instances of academic dishonesty, and are subject to discipline:

- a) plagiarism or the misrepresentation of another's work, whether ideas, or words, or creative works, published or unpublished, as one's own;
- b) submission of any work for credit for which credit has previously been obtained or is being sought in another course, without the prior express written consent of the appropriate instructor;
- c) falsification of results in laboratory experiments, field trip exercises or other assignments;
- d) use of unauthorized aid or assistance including unauthorized group work, and copying in tests and examinations;
- e) impersonation of another student in a test, examination or assignment or knowingly permitting another to impersonate oneself;
- f) alteration or falsification of transcripts or other academic records or submission of false credentials;

- g) unauthorized access, use, or alteration of computer data sets; unauthorized use of another's computer account; use of computer accounts for unauthorized purposes;
- h) willful or negligent damage to the academic work of another member of the university;
- i) interference with the academic processes of the university;
- j) any other form of misrepresentation, cheating, fraudulent academic behaviour or other improper academic conduct of comparable severity;
- k) knowingly helping another to engage in academically dishonest behaviour (including, but not limited to providing questions and/or answers to a test or examination, providing an essay, lab report, etc. which is subsequently plagiarized or submitted by another student as his/her own work.)

### 6.13.2 Allegations of Academic Dishonesty

- a) All allegations of academic dishonesty will be reported to the Chair of the Academic Judicial Committee.
- b) Academic dishonesty may be alleged by a course instructor, with respect to a course or courses taught by him/her. If the student admits the allegation, a sanction or sanctions will be imposed by the instructor, who will inform the Department Head, the Dean and the Chair of the Academic Judicial committee of both the charge and the sanction(s). If the student disputes the allegation, s/he OR the instructor may request that the Academic Judicial Committee hear the case. If the student admits the charge, but disputes the severity of the academic penalty, s/he may appeal to the Department Head and /or Academic Dean.
- c) Academic dishonesty may be alleged by a member (or members) of the university community other than a course instructor (e.g. invigilator(s) 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 in 6.13.2 (a) and (b). If the allegation does not involve a specific course or courses, it will be referred to the appropriate Academic Dean(s), who will report it to the Chair of the Academic Judicial Committee and act as plaintiff(s). The Academic Judicial Committee will hear cases reported by the Academic Dean(s) and will determine sanctions if the charge is upheld.
- d) All decisions of the Academic Judicial Committee may be appealed to the Academic Appeals Committee.
- e) If the record shows that the student has previously been subject to academic discipline, the case will be referred by the Chair to the Academic Judicial Committee, which may impose additional sanctions.

### 6.13.3 Academic Sanctions

Academic sanctions which may be imposed by instructors, Department Heads and Deans for course-related offenses may include, but are not limited to, the following: failure on the work about which the allegation has been made; failure on the course. Additional disciplinary sanctions which may be imposed by the Academic Judicial Committee include probation, suspension, dismissal or expulsion, which will be recorded on the transcript. 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.

## 6.14 MISSED COURSEWORK OR TESTS

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).

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. 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.

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.

## 6.15 EXAMINATION REGULATIONS

**Note:** For information regarding examination re-read regulations see Regulation 6.11.9.

### 6.15.1 Scheduled Tests and Final Examinations (Fall and Winter terms)

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. 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) for authorization.

### 6.15.2 Viewing Examination Papers

Academic departments must retain all final examination papers on file for six months following the date of the examination. Students may review their own examination papers; however papers may not be removed from the department. For purposes of this regulation a final examination shall be defined as one written in the regular examination period.

### 6.15.3 Accommodations for Missed Final Examinations (Fall and Winter terms)

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 Student Services web site. Accommodations for missed final

examinations will be determined by the Registrar (or direct delegate) after consultation with the instructor.

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. 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. Students who do not clear their deferred status by the end of the supplemental examination period in September prior to the start of classes, will receive a non pro-rated final grade and academic standing will be assessed based on these results.

### 6.15.4 Extended Deadlines for Completion of Course Work

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). 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'. 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.

### 6.15.5 Supplemental Examinations

A supplemental examination or paper is intended to provide the instructor with additional information to determine whether or not the student may receive a passing grade for the course. Students who fail to pass a course may undertake supplementary work, provided:

- such supplementary work is compatible with departmental policy with respect to the teaching, examining and marking methods adopted for the course;
- such supplementary work could enable the student to pass the course;
- the student has passed at least eighteen credits, in the regular session;
- the instructor recommends that a supplemental be allowed.

Application must be made in writing to the Registrar. Application forms are available on the Student Services web page.

Supplemental examinations must be written in the supplemental examination period immediately preceding the commencement of classes in the Fall term following the unsuccessful examination. Upon completion of such supplementary work the student will receive a grade of 'Pass' or 'Fail' for the course.

### 6.15.6 Special Examinations

Examinations which are exceptions to, or are not covered by, Sections 6.15.3 or 6.15.5 are special examinations. Application must be made in writing to the Registrar. Application forms are available on the Student Services web page.

A fee is charged for each special examination. The fee will be refunded if the application is not approved. Special examinations can be written at any time by agreement of the student, the instructor, and the Registrar. Normally special examinations are only permitted in the last year of the student's program. Special examinations will receive a grade

of 'Pass' or 'Fail' unless the Registrar, in consultation with the instructor, determines that a letter grade would be more appropriate.

## 6.16 CONTINUOUS LEARNING

See section 8 for information about regulations for courses taken through the department of Continuous Learning.

## 6.17 TRANSCRIPTS

### 6.17.1 Privacy of Transcripts

A student's transcript of record is privileged information to be provided to those outside the University with care and at the discretion of responsible officers of the University. Students may request that transcripts be revealed to no one outside the university without written permission.

### 6.17.2 Number and Letter Grades

Numerical percentages are provided on all transcripts up to the end of the 1993/94 academic year. Beginning with the 1994/95 academic year, letter grades and grade point average assessments are provided.

### 6.17.3 Transcript Requests

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 Student Services web page.

Telephone orders for transcripts cannot be accepted. Partial transcripts are not issued. Those requesting transcripts should be aware that at certain peak periods it may take approximately two weeks to process a transcript order.

## 6.18 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.

## 6.19 GRADUATION/CONVOCATION

### 6.19.1 Application for Graduation

All prospective graduates must complete an Application for Graduation by September 30 of the academic year in which they intend to graduate. Application forms are available on the Student Services web page.

### 6.19.2 Completed Degree Requirements - May

All prospective degree and/or certificate candidates are responsible for completing degree requirements according to the regulations pertaining to their program. A list of prospective degree and/or certificate candidates for each May Convocation is posted by the Registrar approximately five months prior to Convocation. All prospective degree and/or certificate candidates are responsible for checking the accuracy of this list and reporting any errors or omissions to the Registrar. All work towards the degree and/or certificate must be completed and the results officially reported to the Registrar before the Senate meeting immediately preceding May Convocation.

### 6.19.3 Completed Degree Requirements - October

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 this date forward. October Graduates will be invited to participate in the subsequent May Convocation ceremony.

### 6.19.4 Academic Costumes

Successful degree and/or certificate candidates who come to Convocation must wear proper academic costumes. Those who do not attend the ceremony will receive their diplomas in absentia. The diplomas will be mailed out after Convocation.

### 6.19.5 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.

### 6.19.6 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.)

## 6.20 NOTIFICATION OF DISCLOSURE OF PERSONAL INFORMATION TO 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. To make such a request or for further information please contact Statistics Canada at: <[ESIS-SIAE\\_contact@statcan.ca](mailto:ESIS-SIAE_contact@statcan.ca)> or by mail: Postsecondary Education and Adult Learning Section, Centre for Education Statistics, Statistics Canada, Jean Talon Building, 1-B-21 Tunney's Pasture, Ottawa, Ontario, K1A 0T6

Further details on the use of this information can be obtained from the Statistics Canada Web site

<<http://www.statcan.ca/english/concepts/ESIS/index.htm>>.

## 6.21 EMAIL COMMUNICATION

Email is an official means of communication for academic and administrative purposes at Mount Allison. An email address assigned to a student by the university will be the only email address that will be used by Mount Allison for communication with students for academic and administrative purposes. Students are responsible for frequently checking their Mount Allison email address to remain current with administrative and academic notifications.



# 7 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.

## 7.0 Course Numbering and Credit Values

### 7.1 General Regulations

#### 7.2 Bachelor of Arts Degree

#### 7.3 Bachelor of Science Degree

#### 7.4 Master of Science Degree

#### 7.5 Bachelor of Commerce Degree

#### 7.6 Bachelor of Music Degree

#### 7.7 Bachelor of Fine Arts Degree

#### 7.8 Certificate of Bilingualism

#### 7.9 Certificat de bilinguisme

#### 7.10 Pre-Professional Requirements

#### 7.11 Study Abroad Programs

## 7.0 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.**

## 7.1 B.A. AND B. SC. GENERAL REGULATIONS

### 7.1.1 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:

- The Bachelor's degree requires the completion of 120 credits worth of course work.
- Six credits must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Sciences, and Science. (see 7.2.2 and 7.3.2)
- A specified minimum number of credits earned at an advanced level must be included. (see 7.2.3 and 7.3.5)
- 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 7.2.12, 7.2.17, 7.3.15 and 7.3.20)

### 7.1.2 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 Student Services 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.

## 7.2 BACHELOR OF ARTS

### 7.2.1 Requirements for a B.A. Degree

In order to qualify for a Bachelor of Arts degree, a student must complete 120 credits including:

- 6 credits must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Sciences, and Science, as listed in 7.2.2
- 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 7.2.4, 7.2.6, 7.2.7, 7.2.8, 7.2.12, and 7.2.17)

## 7.2.2 Distribution Requirements

Six credits must be earned from each of the following lists:

### Arts and Letters

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 Studies

### Social Sciences

Anthropology  
Commerce  
Economics  
Geography and Environment (GENV)  
International Relations  
Political Science  
Sociology  
Women's 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 Studies (WOST) courses can be applied to meet the distribution requirements for either Humanities or Social Sciences, or a combination of those two disciplines.

## 7.2.3 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.

## 7.2.4 Credits Required for a Major and Minor

The credits required for a B.A. include those required for a Major [see list under 7.2.13], plus the credits required for a Minor from any other program [see lists under 7.2.18 and 7.3.21]. **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 7.2.4 is the usual means of achieving a B.A. degree, other combinations are possible, as outlined in 7.2.5 through 7.2.8.

## 7.2.5 Additional Minor

Students who satisfy the requirements for more than one Minor will have the additional Minor(s) recorded on their transcript.

## 7.2.6 Double Major

Students who (in lieu of the Minor required in 7.2.4) satisfy the requirements for a second Major from any other program [see lists under 7.2.13 and 7.3.16], 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.

## 7.2.7 Honours Degree

Students who (in lieu of 7.2.4) satisfy the requirements for an Honours degree [see 7.2.19] will have achieved a B.A. with Honours, and will have the Honours program recorded on their transcript.

## 7.2.8 General Degree with Three Minors

Students who (in lieu of 7.2.4) satisfy the requirements for three Minors [see 7.2.14] 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 7.2.3 must still be fulfilled.

## 7.2.9 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 7.2.4, this requirement can be satisfied by completing the courses specified in any one of the named Major listed in 7.2.13, according to one of the options outlined in 7.2.10 through 7.2.12

## 7.2.10 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.

### 7.2.11 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.

### 7.2.12 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.**

### 7.2.13 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
- Sociology/Anthropology

### 7.2.14 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 7.2.4, this requirement can be satisfied by completing the courses specified in any one of the named Minors listed in 7.2.18, (or under 7.3.21) according to one of the options outlined in 7.2.15 through 7.2.17.

### 7.2.15 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.

### 7.2.16 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.

### 7.2.17 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.**

### 7.2.18 Minors Available for the B.A.

For the B.A., the following Minors are available along with those listed under section 7.3.21. 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
- Women's Studies

#### Interdisciplinary

- American Studies
- Canadian Studies
- Drama
- Environmental Studies
- Geographic Information Systems (G.I.S.)

International Economics and Business  
Japanese Studies

## 7.2.19 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 7.2.4 and 7.2.7), although any student who completes a Minor from another discipline or program, will have this Minor recorded on his or her transcript. Academic regulation 6.8 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.

## 7.2.20 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 7.2.2 and 7.2.3. 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  
Economics  
English  
French Studies  
Geography  
History  
Mathematics  
Music  
Philosophy  
Political Science  
Psychology  
Religious Studies  
Sociology

### Interdisciplinary

American Studies  
Canadian Studies  
Computer Science and Mathematics  
Environmental Studies  
International Relations  
Modern Languages, Literatures and Cultures  
Sociology/Anthropology

## 7.3 BACHELOR OF SCIENCE

### 7.3.1 Requirements for a B.Sc. Degree

In order to qualify for a Bachelor of Science degree, a student must complete 120 credits including:

- 6 credits must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Sciences, and Science, as listed in 7.3.2
- 6 credits must be earned in Chemistry, 6 credits in Mathematics or Computer Science, 6 credits in Physics as outlined in 7.3.3

- 72 Science credits of which a minimum of 30 credits must be from Science courses at the 3/4000 level (see 7.3.4 and 7.3.5)
- 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 7.3.6, 7.3.8, 7.3.9, 7.3.10, 7.3.15 and 7.3.20.)

### 7.3.2 Distribution Requirements

Six credits must be earned from each of the following lists:

#### Arts and Letters

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 Studies

#### Social Sciences

Anthropology  
Commerce  
Economics  
Geography and Environment (GENV)  
International Relations  
Political Science  
Sociology  
Women's 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 Studies (WOST) courses can be applied to meet the distribution requirements for either Humanities or Social Science, or a combination of those two disciplines.

### 7.3.3 Additional B.Sc. Requirements

Six credits must be earned in Chemistry, six credits in Mathematics or Computer Science, six credits in Physics as follows:

- Chemistry: 6 credits from CHEM 1001,1021
- Mathematics/Computer Science: 3 credits from MATH 1111 and 3 additional credits from MATH 1121, 1131, 1251, 2211, 2221, 2311, COMP 1631
- Physics: 3 credits from Physics 1051, and 3 additional credits from Physics 1551, 3521

**Note:** Students may count for credit towards a degree a maximum of 6 credits from BIOL 2701, GENS 2431, MATH 2311, and PSYC 2001.

Students' choices should be made according to their Major or Honours requirements. Students having advanced placement should consult with the appropriate department regarding substitution for any of the courses listed above.

### 7.3.4 Minimum Number of Science Credits

A minimum of 72 credits in Science must be earned from the Science disciplines.

### 7.3.5 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.

### 7.3.6 Credits Required for a Major and Minor

The credits required for a B.Sc. include those required for a Major [see list under 7.3.16], plus the credits required for a Minor from any other program [see lists under 7.3.21 and 7.2.18]. **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 7.3.6 is the usual means of achieving a B.Sc., other combinations are possible, as outlined in 7.3.7 through 7.3.10..

### 7.3.7 Additional Minor

Students who satisfy the requirements for more than one Minor will have the additional Minor(s) recorded on their transcript.

### 7.3.8 Double Major

Students who (in lieu of the Minor required in 7.3.6) satisfy the requirements for a second Major from any other program [see lists under 7.3.16 and 7.2.13] 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.

### 7.3.9 Honours Degree

Students who (in lieu of 7.3.6) satisfy the requirements for an Honours degree [see 7.3.22] will have achieved a B.Sc. with Honours, and will have the Honours program recorded on their transcript.

### 7.3.10 General Degree with Three Minors

Students who (in lieu of 7.3.6) satisfy the requirements for three Minors, at least two of which must be in Science (see 7.3.17) 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 7.3.4 and 7.3.5 must still be fulfilled.

### 7.3.11 Courses which Qualify as Science Credits

For purposes of Regulation 7.3.4 and 7.3.5 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, GENS 1401, 2411, 2421, 2431, 2441, 3401, 3411, 3421, 3451, 4411, 4421, 4950, 4951, 4990, PHIL 2511, 3511.

**Note:** Commerce, Economics and Philosophy courses listed here cannot be used to fulfill Science distribution requirements in 7.2.2 and 7.3.2.

### 7.3.12 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 7.3.6, this requirement can be satisfied by completing the courses specified in any one of the named Major in Science listed in 7.3.16, according to one of the options outlined in 7.3.13 through 7.3.15.

### 7.3.13 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 7.3.3.

### 7.3.14 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.

### 7.3.15 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.**

### 7.3.16 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 (pending MPHEC approval)
- Biochemistry

Cognitive Science  
Environmental Science

### 7.3.17 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 7.3.6, this requirement can be satisfied by completing the courses specified in any one of the named Minors listed in 7.3.21 (or under 7.2.18), according to one of the options outlined in 7.3.18 through 7.3.20.

### 7.3.18 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.

### 7.3.19 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.

### 7.3.20 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.**

### 7.3.21 Minors Available for the B.Sc.

For the B.Sc., the following Minors are available along with those listed under 7.2.18. For a complete listing of courses required for each Minor, see the appropriate heading under Programs and Courses of Instruction.

#### Disciplinary

Biology  
Chemistry  
Computer Science  
Mathematics  
Physics  
Psychology

#### Interdisciplinary

Geographic Information Systems

### 7.3.22 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 7.3.6 and 7.3.9), although any student who completes a Minor from another discipline or program will have this Minor recorded

on his or her transcript. Academic regulation 6.8 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.

### 7.3.23 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 7.3.2 through 7.3.5. For a complete listing of courses required for each Honours Program see the appropriate heading under Programs and Courses of Instruction.

#### Disciplinary

Biology  
Chemistry  
Mathematics  
Physics  
Psychology

#### Interdisciplinary

Biochemistry  
Computer Science and Mathematics  
Environmental Science  
Mathematics and Physics

## 7.4 MASTER OF SCIENCE

Graduate work is approved for the Departments of Biology and Chemistry.

### 7.4.1 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.

### 7.4.2 Minimum Admission Requirements

- An Honours Bachelor's degree in the intended field of study or its equivalent from a University of recognized standing (mature students will be given special consideration); and
- Two letters of reference

In situations where the candidate is close to fulfilling requirement (a), the Committee may admit the student to a qualifying year. In this case, the Department concerned will be asked by the Committee to suggest a course of study that will fulfill requirement (a) and that will build sufficient strength of background to carry on work at the graduate level. A passing grade must be obtained in each of these courses as well as a minimum overall Cumulative Grade Point Average of 3.0. Students completing qualifying courses will register as special students and are not graduate students while pursuing these studies. They will be admitted to graduate studies when the committee decides that the qualifying conditions have been fulfilled.

### 7.4.3 Time Required

The minimum time required to complete graduate studies is one full year (two years is the normal situation). The program of study must be completed within five years.

## 7.4.4 Course and Thesis Requirements

All candidates must complete a minimum of two to a maximum of four 3 credit graduate courses as determined by the supervisory committee; a research program and a thesis based on this research; and participate in the departmental seminar series as determined by the supervisor. The format of the written thesis will follow the rules for the Honours thesis. Copies of the thesis must be made available to the members of the candidate's Supervisory Committee three weeks prior to public presentation.

## 7.4.5 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.

## 7.4.6 Supervisory Committee

A committee of three will be appointed for each candidate by the Committee on Graduate Studies 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. 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 Committee on Graduate Studies. A grade of 'Pass' or 'Fail' will be assessed for the thesis and its defence by the candidate's committee. (The Chair of the Committee on Graduate Studies 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 one year to meet these conditions.

## 7.4.7 Special Departmental Regulations

In addition to the above regulations, each department may have special requirements as to language, necessary qualifying or complementary courses, etc. Information about such matters may be obtained from the heads of departments or may appear elsewhere in the Calendar under the departmental list of courses.

## 7.4.8 Application Procedure

Candidates should submit a curriculum vitae, a set of official transcripts, and arrange to have two letters of reference forwarded to the Chair of the Committee on Graduate Studies. It is recommended that applicants also contact individual faculty members about the possibility of carrying on advanced study and research with them.

## 7.5 BACHELOR OF COMMERCE

### 7.5.1 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.

## 7.5.2 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 7.5.3)
- b) A minimum of 42 credits from the 3/4000 level (see 7.5.4)
- c) 42 credits from the Commerce Degree Core Program requirements as listed in 7.5.5
- d) 27 additional Commerce elective credits, with at least 24 credits from 3/4000 level courses (see 7.5.6)
- e) Courses which satisfy the requirements of a Minor (see 7.5.7) *Note: this requirement is waived for students pursuing Honours in Economics*
- f) Elective credits with no more than 9 from Commerce courses (see 7.5.8)

## 7.5.3 Distribution Requirements

Six credits must be earned from each of the following lists:

### Arts and Letters

Drama  
English  
Fine Arts  
French Studies  
German Studies  
Hispanic Studies  
Japanese Studies  
Linguistics  
Music

### Humanities

Classics  
Canadian Studies  
Greek  
History  
Latin  
Philosophy  
Religious Studies  
Women's Studies

Note: Social Science and Science distributions are fulfilled by Bachelor of Commerce degree requirements.

## 7.5.4 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.

## 7.5.5 Commerce Degree Core Requirements

The Commerce Degree Core Requirements is 42 credits earned as follows:

- 24 credits from Commerce 2101, 2131, 2201, 2301, 3411, 3501, 4311, 4321
- 3 credits from Mathematics 1111
- 6 credits from Economics 1001 and 1011
- 3 credits in Computer Science

- 6 credits from Mathematics 2311 and 2321  
 OR Mathematics 2311 and Economics 2701  
 OR Psychology 2001 and 2011

### 7.5.6 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 7.5.5), as well as the following courses from other disciplines may also be counted as Commerce electives: Economics 2521, 3201, 3211, 3301, 3601, 3711, 3921, 4501, 4511, 4700, 4801, 4811, 4821, 4990, Computer Science 3851, and Religious Studies 3951, 3961.

### 7.5.7 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 7.2.17). No more than 9 credits can be counted in common between the Minor and the courses counted in 7.5.5 and 7.5.6. 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 Studies

#### Interdisciplinary

American Studies  
 Canadian Studies  
 Drama  
 Environmental Studies  
 Geographic Information Systems (GIS)  
 International Economics and Business  
 Japanese Studies

### 7.5.8 Elective Credits

The remaining credits beyond those completed to fulfill 7.5.3, 7.5.5, 7.5.6 and 7.5.7 may be from any discipline. No more than 9 credits beyond those included in 7.5.5 and 7.5.6 may be from courses in the Commerce discipline. (A maximum of 60 credits from courses in the Commerce discipline is permitted to count toward the 120 credits required for a Bachelor of Commerce degree.)

### 7.5.9 Honours Programs Available for the Bachelor of Commerce

Students who satisfy the requirements for an Honours program [see section 7.5.10, 7.5.11] 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 6.8 governing the granting of Honours should be consulted. In addition to the prescribed Honours courses listed in 7.5.10 and 7.5.11, students must fulfill the general requirements for a Bachelor of Commerce degree as listed in 7.5.2. a), b), e), and f).

### 7.5.10 Commerce with Honours

Honours in Commerce is 69 credits earned as follows:

- 42 from the Commerce core requirements (see 7.5.5)
- 6 from Commerce 4990
- 21 from Commerce electives at the 3/4000 level

### 7.5.11 Commerce with Honours in Economics

Honours in Economics is 90 credits earned as follows:

- 42 from the Commerce core requirements (see 7.5.5)
- 15 from Economics 2001, 2011, 2101, 2111, 3501
- 12 from Economics 4001, 4011, 4700, 4801, 4811, 4821 and 4990
- 9 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*

### 7.5.12 Major from Other Disciplines

Students who, in lieu of 7.5.7, complete a Major in a non-Commerce discipline as listed in 7.2.13 and 7.3.16 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 7.5.5 and 7.5.6. 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 7.2.12) will have that Major recorded on their transcript.

### 7.5.13 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, 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 Mathematics 2311 and Economics 2701 or Psychology 2001 and 2011

## 7.6 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.

### 7.6.1 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.

### 7.6.2 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 Music majors (B.Mus.) must appear for an audition-interview as part of the application for admission. Each B.Mus. applicant should be prepared to play four pieces from different style periods of Music. Vocalists and instrumentalists may either provide their own accompanist 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 and written skills, and will determine placement for Bachelor of Music and B.A. (Honours, Major or Minor) students in either MUSC 1001 or 1101. MUSC 1001/1011 cannot be used to fulfill the requirements for the Bachelor of Music Degree. 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 contact the Department of Music for information about audition dates.

### 7.6.3 Requirements for Bachelor of Music Degree

In order to qualify for a Bachelor of Music Degree, a student must complete 120 credits including:

- a) 52 credits from the following required core:
  - i) 42 credits from MUSC 1101, 1111, 1201, 1211, 2101, 2111, 2201, 2211 and MUSC 1500, 2500, 3500
    - Note: all piano and organ students registered for MUSC 2500 must also take MUSC 2603
  - ii) 3 to 6 credits from MUSC 4500, 4503, 4580, 4590, 4600
    - Note: If only 3 credits are earned here, 39 Music elective credits must be completed.
  - iii) 4 credits from MUSC 1629-4629, 1639-4639, 1659-4659, 1669-4669, 2679-4679
- b) 36-39 credits from the following Music electives:
  - i) Theory and Composition (MUSC 2141, 2151, 3121, 3131, 3141, 3151, 3161, 3171, 4141, 4151, 4181, 4191)
  - ii) Music History and Literature (MUSC 3001, 3211, 4221)
    - Note: MUSC 3211 and 4221 may be repeated if offered with a different topic
  - iii) Music Education (MUSC 3301, 3311, 3321, 3333, 3343, 4311, 4351, 4361)
  - iv) Performance Electives (MUSC 2521, 2603, 2613, 3401, 3411, 3421, 3603, 3613, 4603, 4613, and MUSC 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 2679-4679, 1689-4689)
  - v) General Elective (MUSC 4951; this course may be repeated if topic differs)
- c) 30-33 non-Music electives

Note: Students may use these non-music electives to broaden their general knowledge or to develop a Minor area 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:** Music Education and Performance Electives may be offered in one term only or over two terms. Please consult the timetable for specific information.

### 7.6.4 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: 1629-4629 Chamber Orchestra; 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: 1689-4689 Large Ensemble of Like Instruments; 1649-4649 Instrumental Jazz 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 mark 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.

### 7.6.5 Recitals

In addition to performing on Collegium programs, qualified students are given the opportunity of presenting full-length and shared solo recitals. Recitals may be credited or uncredited.

To be eligible to present an uncredited full or shared recital, a student must be recommended by his/her Applied Music teacher, must have achieved a grade of at least A- in MUSC 2500 (Applied Music II), or 3500 (Applied Music III), and must have participated in two Collegia or the equivalent, since enrolling in the Bachelor of Music program.

To be eligible to present a credited shared recital (MUSC 4580), a student must be recommended by his/her Applied Music teacher, must have achieved a grade of at least A- in MUSC 3500 (Applied Music III), and must have participated in two Collegia, or the equivalent, since enrolling in the Bachelor of Music program.

To be eligible to present a credited full recital (MUSC 4590), a student must be recommended by his/her Applied Music teacher, must have achieved a grade of at least A- in MUSC 3500 (Applied Music III), and must have presented at least one shared recital.

## 7.7 BACHELOR OF FINE ARTS

The Department of Fine Arts, located in the Gairdner Fine 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.

### 7.7.1 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.

### 7.7.2 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 early April and late portfolios cannot be considered. Only a limited number of students can be accepted to the program.

### 7.7.3 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.

### 7.7.4 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 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.
- 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:

- 18 Studio Art credits - Fine Arts 1101, 1111, 1901, 1911, 1921, and 1931
- Fine Arts 2001 and 2011
- 6 credits from outside of Fine Arts

#### Year Two:

- Fine Arts 2101 and 2111
- 12 additional studio credits selected from Fine Arts 2201, 2211, 2301, 2311, 2401, 2411, 2501, 2511
- 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
- 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:

- Fine Arts 3101 - Intermediate Drawing I
- 12 additional studio credits from Fine Arts 3111, 3201, 3211, 3301, 3311, 3401, 3411, 3501, 3511, 3601, 3611
- Fine Arts 3701 - Third 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)

#### Year Four:

- a) 12 studio credits - Fine Arts 4801, 4811, 4821, 4831 and 3 additional credits from 2/3000 level studio courses
- b) Fine Arts 4701 - Fourth 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)

### 7.7.5 Entrance Scholarship

The E.B. Pulford Scholarship is normally awarded to the top incoming B.F.A. student, based on portfolio assessments.

## 7.8 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.

### 7.8.1 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.

### 7.8.2 Standards

Candidates must demonstrate their ability in both languages to:

- follow and understand broadcasts, films and lectures,
- 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,
- write a letter or report that is free of grammatical and stylistic errors,

- participate in conversation by expressing complex ideas, developing an argument, and answering questions.

## 7.9 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 facilité 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.

### 7.9.1 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 possibilités dont on dispose à Mount Allison pour l'acquisition des deux langues officielles du Canada.

### 7.9.2 Niveaux Requis

Les candidats doivent démontrer, dans les deux langues, qu'ils sont capables:

- de suivre et de comprendre des émissions radiophoniques, des films, des conférences,
- 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,
- d'écrire une lettre ou un compte-rendu sans fautes de grammaire et sans erreurs de style,
- de prendre part à une conversation en exprimant des idées complexes, en élaborant et en développant un raisonnement, et en répondant à des questions.

## 7.10 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.

## 7.11 INTERNATIONAL PROGRAMS

### 7.11.1 Study Abroad and Exchange Programs

Mount Allison has exchange and study abroad programs in several parts of the world and encourages participation in international experiences. Most programs allow qualified students to complete a period of study abroad for which students can be assessed for transfer of credit. To participate 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 3.0 and who will be in their third year of study while abroad. Some programs have further specific criteria (such as language requirements) and students are encouraged to consult with the listed program co-ordinator.

Mount Allison currently has partnerships with:

#### **AustraLearn, study abroad opportunities at 32 universities in Australia, New Zealand and Fiji**

Program Co-ordinator: Robert Summerby-Murray

#### **Universidad Autonoma de Madrid, Spain**

Program Co-ordinator: Juan Carlos Martinez

#### **Copenhagen Business School, Denmark**

Program Co-ordinator: Rosemary Polegato

#### **Eberhard-Karls-Universität (Tübingen), Germany**

Program Co-ordinator: Will Wilson (Fall 2008), David Hornidge (Winter 2009)

#### **Killam Fellowship (tenable at Harvard University, American University, Bridgewater State College, Ithaca College, Massachusetts Institute of Technology, Smith College, Wellesley College, and Plattsburgh State University)**

Program Co-ordinator: Michael Fox

#### **Kwansei Gakuin University, Japan**

Program Co-ordinator: Tim Reiffenstein

#### **Mid Sweden University, Sweden**

Program Co-ordinator: Judith Doyle

#### **North American Mobility Programs (with Wilfrid Laurier, Université de Moncton, Université Ste.-Anne; and Bowling Green State, Georgia Southern, Nicholls State, Central Arkansas, Universidad Veracruzana, Universidad de Sonora, Universidad de Colima, and Universidad Autonoma de Yucatan.**

Program Co-ordinator: Robert Summerby-Murray

#### **Norwegian School of Management and Norwegian School of Marketing, Norway**

Program Co-ordinator: Nauman Farooqi

#### **Ochanomizu University, Japan**

Program Co-ordinator: Mohammad Ahmady

#### **Queen's University - Herstmonceux Castle, United Kingdom**

Program Co-ordinator: Robert Summerby-Murray

#### **University of Otago, New Zealand**

Program Co-ordinator: Robert Summerby-Murray

#### **Phillips Universität Marburg, Germany**

Program Co-ordinator: Will Wilson

#### **The Shastri - Mount Allison Summer Program in India**

Program Co-ordinator: Roopen Majithia

#### **University of Southern Denmark, Denmark**

Program Co-ordinator: Robert Summerby-Murray

#### **Université Marc Bloch, Strasbourg, France**

Program Co-ordinator: Mark Lee

#### **Washington Center for Academic Internships, Washington, D.C.**

Program Co-ordinator: Tamara Small

#### **Zhejiang University, China**

Program Co-ordinator: Owen Griffiths

### 7.11.2 MASSIE PROGRAM

Mount Allison's MASSIE Program (Mount Allison Sophomore Semester in English) offers an on-campus, full-immersion language experience for students from Mount Allison's partner university in Japan. The Program was created to give 2nd year students from Kwansei Gakuin University (KGU) the opportunity to live and study in an English environment for one university term. Students live with Mount Allison roommates during the Fall term and with residence monitors during the Summer session. Students in both groups are paired with volunteers from campus and the community who act as English conversation partners. Since the program's beginning in 2000, over 550 KGU students and 950 Mount Allison students have been involved as participants and volunteers. Mount Allison and KGU enjoy a 22-year history of faculty and student exchanges.

### 7.11.3 Academic Credit for Independent International Experiential Learning

Academic credit may be awarded for certain forms of independent international experiential learning subject to the criteria listed below and with the approval of the appropriate Academic Dean. Examples of such international experiences and programs include, but are not limited to, projects managed through Leadership Mount Allison, the World University Service of Canada Seminar and Canada World Youth. Normally, three credits per experience (to a maximum of 6 credits) may be assigned to an independent international experiential learning course (INEX 3/4000/01) as recommended by the course supervisor and approved by an Academic Dean. 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 international experiential learning cannot be used to fulfill distribution requirements.

To be eligible for academic credit, the independent international experiential learning must satisfy the following criteria:

- the international experience is provided through an organization or institution which supports open inquiry and intellectual freedom,
- four months prior to the international experience, the student must consult with an appropriate faculty supervisor and forward their study plan (see below) to the International Programs Committee. The International Programs Committee will make a recommendation to the appropriate academic dean who will confirm their decision

- with the Registrar, including the course to which credit will be assigned,
- c) the study plan submitted to the faculty supervisor and the International Programs Committee must contain:
    - i) a brief description of the intended international experiential learning, including beginning and ending dates;
    - ii) an overview of the sponsoring international 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 understanding. 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 international student travel must be met,
  - e) following the experience, the student shall request that a letter from the director/co-ordinator of the international experience or program be submitted to the dean confirming that the student completed the experiential learning program successfully.

**INEX 3/4000/01 (6/3CR)****INDEPENDENT INTERNATIONAL EXPERIENTIAL LEARNING**

**Prereq:** Normally third-year standing at the time of approval under regulation 7.11.2

A university-wide course that provides credit for academic analysis of independent international experiential learning. Normally, three credits (and up to six credits) may be awarded per experience (to a maximum of six credits in a student's degree program) based on an independent international experiential learning program evaluated under regulation 7.11.2.



# 8 CONTINUOUS LEARNING

The Department of Continuous Learning provides educational opportunities for students in alternative formats. Students wishing to take courses from the Department of Continuous Learning should contact the department for help with the admissions and registration processes.

## 8.1 MIRAMICHI FIRST YEAR AT HOME PROGRAM

Continuous Learning co-ordinates Mount Allison's contribution to the Cooperative University Program on the Miramichi. This program, offered in partnership with St. Thomas University and the University of New Brunswick, provides a first year university program in Arts, Sciences, Social Sciences, and Commerce to students on the Miramichi. This enables Miramichi students to complete their first year of university studies at home. A very limited number of second and third year courses are also offered in this program.

## 8.2 MONCTON PROGRAM

Continuous Learning offers daytime and evening courses in Moncton including first year courses in Arts, Sciences, and Social Sciences. The Moncton program enables students to complete many of their first year courses in their home community. A limited number of upper level courses are also offered based on demand.

## 8.3 CORRESPONDENCE PROGRAM

The Correspondence program is offered during the Fall, Winter and Spring/Summer terms. It allows students to acquire credits toward a degree in a flexible, self-paced manner. During the Fall and Winter terms, students are given sixteen weeks to complete three credit courses and thirty-two weeks to complete six credit courses. During the Spring/Summer term they must complete these courses **within** sixteen weeks. While most students register for these courses in September, January or April, part-time students may sign up for courses at any time during the year. Full-time students registering for Correspondence courses must follow registration and withdrawal deadlines as outlined in Section 6.2 of the Academic Regulations.

## 8.4 SPRING/SUMMER TERM COURSES

Spring courses are offered during the period of May-June, on the Sackville campus as well as in other locations (e.g. Moncton). Spring term six credit courses run four days or evenings a week, for seven weeks; three credit courses run two days or evenings a week during this period. Summer courses may be offered during the months of July and early August. Students may register for a maximum of 12 credits, including a maximum of 6 credits from correspondence courses, offered through Continuous Learning during the Spring/Summer term. Students must be in Good Standing to register for correspondence courses (see Academic Regulation 6.12.2).

## 8.5 SEMINARS AND WORKSHOPS

Non-credit courses, seminars and workshops may be organized during the academic year and in the summer on a wide variety of topics. Such courses are usually offered on the Sackville campus but may be given in nearby communities upon request.

## 8.6 FEES

Fees for all credit courses are based on full-time tuition fees and change as those fees change. For non-credit courses, seminars, and workshops, fees vary according to the length and type of program being offered.

## 8.7 FINANCIAL AID

Several forms of financial aid are currently available to full and part-time students. Full-time students are eligible for all university scholarships and financial aid. Aid for part-time students includes the Scoudouc Awards and Part-time Student Loans. Scoudouc Awards, donated by Dr. William Webster, are available to New Brunswick residents only and range in value from \$100 to \$300 per course. Full and Part-time student loans are interest-bearing loans guaranteed by the Government of Canada, and may be used for tuition, books, transportation, day care and incidentals. The university also administers a bursary program for which part-time students may be eligible.

## 8.8 COURSES THROUGH CONTINUOUS LEARNING AS PART OF A NORMAL COURSE LOAD

During the Fall and Winter terms, full-time students registered at the Sackville campus are permitted to take up to six credits through Continuous Learning as part of a normal course load. **These courses MUST be completed by the end of the academic term in which they were started. Full-time students registering for courses through Continuous Learning must follow registration and withdrawal deadlines as outlined in section 6.2 of the Academic Regulations.**

## 8.9 OVERLOAD COURSES THROUGH CONTINUOUS LEARNING

During the Fall and Winter terms, full-time students registered at the Sackville campus may only register for courses offered through Continuous Learning in accordance with Academic Regulation 6.1.5 (Normal Course Loads and Overloads).

## 8.10 DEADLINES AND EXTENSIONS FOR CORRESPONDENCE COURSES

Full-time students registering for correspondence courses through Continuous Learning must follow registration and withdrawal deadlines as outlined in section 6.2 of the Academic Regulations. They **MUST** complete these courses by the end of the academic term in which they were started. **Part-time students taking correspondence courses must complete a three credit course within sixteen weeks of the start date and must complete a six credit course within thirty-two weeks of the start date.** Extensions to these deadlines can be granted by an **Academic Dean**. If an extension is granted, an extension fee will apply.

## 8.11 WITHDRAWAL FROM CORRESPONDENCE COURSES

Full-time students registering for correspondence courses must follow registration and withdrawal deadlines as outlined in section 6.2 of the Academic Regulations. Part-time students registered in a three or six credit correspondence course may withdraw without academic penalty provided that:

- such withdrawal occurs before not more than half the normal time limit for the course has elapsed, AND
- no more than half the course work has been completed.

Students wishing to withdraw from a correspondence course must notify Student Services in writing.

## 8.12 WITHDRAWAL FROM SPRING/SUMMER TERM COURSES (NON-CORRESPONDENCE)

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 Office of Student Services in writing. Please see section 4.5.3 for financial information.

## 8.13 CONTACT INFORMATION

For more information on any of the programs described above, please contact the Department of Continuous Learning at (506)364-2266, Fax (506)364-2301, E-mail: <[continuing\\_ed@mta.ca](mailto:continuing_ed@mta.ca)> or visit the University's website<[www.mta.ca](http://www.mta.ca)>

# 9 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, literature, geography, politics and economics. The American Studies program at Mount Allison is designed primarily for students who are interested in studying American history and literature, and who are also 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:**

- 9 from ENGL 2701\*, 3711\*, 3721\*
- 9 from HIST 1601, 1651, 2511, 2521
- 6 from ENGL 3731\*, 3741\*, 4701\*, FINA 3061\*, GENV 2201, 2311, 3301\*, HIST 3511\*, 3521\*, 3531\*, 3561\*, 4500\*, 4510\*, 4571\*, POLS 2201\*, 3310\*, SPAN 3011

**MAJOR in American Studies is 60 credits earned as follows:**

- 3 from ENGL 1201
- 9 from ENGL 2701\*, 3711\*, 3721\*
- 6 from GENV 2311, 3301\*
- 9 from HIST 1601, 1651, 2511, 2521
- 3 from POLS 2201
- 30 from ECON 1001, 1011, 3501\*, ENGL 3731\*, 3741\*, 3921\*^, 3931\*^, 4701\*, 4951\*^, FINA 3061\*, GENV 2201, HIST 3511\*, 3521\*, 3531\*, 3561\*, 4500\*, 4510\*, 4571\*, 4951\*^, INLR 2301\*, 3101\*, 4301\*, MUSC 3211^, POLS 2201\*, 3310\*, RELG 2841, SOCI 3431\*, 3451\*, SPAN 3011

**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\*^, FINA 3061\*, HIST 3511\*, 3521\*, 3531\*, 3561\*, 4500\*, 4510\*, 4571\*, 4951\*^, INLR 3101\*, 4301\*, MUSC 3211^, POLS 3310\*, SOCI 3431\*, 3451\*, SPAN 3011, 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, 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 or Program Co-ordinator must be obtained.

### ANTH 1011 (3CR) INTRODUCTION TO ANTHROPOLOGY

**Format:** Lecture 3 Hours

**Exclusion:** SOAN 1011

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).

### ANTH 2231 (3CR) CULTURE AND COMMUNICATION

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 3 credits in Social Sciences; or permission of the Department

**Exclusion:** SOAN 2231, 3231, ANTH 3231

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.

### ANTH 2401 (3CR) ANTHROPOLOGY AND THE LIFE COURSE

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 3 credits in Social Sciences; or permission of the Department

**Exclusion:** SOAN 2401

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.

### ANTH 2501 (3CR) ENVIRONMENT AND SOCIETY

**Format:** Lecture 3 Hours

**Prereq:** Anthropology 1011 and 3 credits in Social Sciences; or permission of the Department

**Exclusion:** SOAN 2501

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.

**ANTH 2521 (3CR)**  
**ANTHROPOLOGICAL PERSPECTIVES ON DEVELOPMENT**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 3 credits in Social Sciences; or permission of the Department

**Exclusion:** SOAN 2521

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.

**ANTH 3021 (3CR)**  
**CLASSICAL THEORY IN ANTHROPOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3021, any version of ANTH 3021 previously offered with a different title

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.

**ANTH 3031 (3CR)**  
**INDIGENOUS KNOWLEDGE SYSTEMS: THEORETICAL AND METHODOLOGICAL ISSUES**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3031

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?"

**ANTH 3101 (3CR)**  
**SOCIAL INEQUALITY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3101

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.

**ANTH 3311 (3CR)**  
**ANTHROPOLOGICAL RESEARCH METHODS**

**Format:** Lecture/Case Studies 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3311

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.

**ANTH 3321 (3CR)**  
**FIELD COURSE IN ANTHROPOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

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 normal term time, but is available to students through Continuous Learning. Completion of ANTH 3311 (Anthropological Research Methods) is recommended before registering for this course.

**ANTH 3401 (3CR)**  
**BELIEF SYSTEMS**

**Format:** Lecture/Case Studies 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3401

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.

**ANTH 3421 (3CR)**  
**FOLKLORE**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3421

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.

**ANTH 3531 (3CR)**  
**FAMILY AND KINSHIP**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3531

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.

### **ANTH 3541 (3CR) ETHNOBOTANY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3541

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.

### **ANTH 3621 (3CR) HEALTH AND CULTURE**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3621

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.

### **ANTH 3801 (3CR) ABORIGINAL PEOPLES AND CULTURES OF CANADA**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** ANTH 2801

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.

### **ANTH 3821 (3CR) MARITIME ABORIGINAL CULTURES IN ETHNOGRAPHIC PERSPECTIVE**

**Format:** Lecture/Case Studies 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3821

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

### **ANTH 3831 (3CR) AREAL ETHNOGRAPHY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3831

An ethnographic study of an area other than those covered in other 3800 courses.

### **ANTH 3841 (3CR) SOUTHEAST ASIAN ETHNOGRAPHY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3841

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.

### **ANTH 3851 (3CR) ARCTIC ETHNOGRAPHY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3851

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.

### **ANTH 3861 (3CR) AFRICAN ETHNOGRAPHY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; 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.

### **ANTH 3871 (3CR) NORTH AFRICAN AND MIDDLE EASTERN ETHNOGRAPHY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** ANTH 3831 - Areal Ethnography Mideast/Middle East and North Africa

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.

### **ANTH 3911 (3CR) INTERMEDIATE SPECIAL TOPICS IN ANTHROPOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** ANTH 1011 and 6 credits from 2000 level Anthropology courses; or permission of the Department

**Exclusion:** SOAN 3911

An intermediate course which focuses on topics not covered by current course offerings in Anthropology, or topics not covered in depth in the courses offered.

### **ANTH 4021 (3CR) CONTEMPORARY THEORY IN ANTHROPOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** Anthropology 3021 or 3031, 3311; and three additional 3000 level credits in Anthropology; or permission of the Department

**Exclusion:** SOAN 4021, any version of ANTH 4021 previously offered with a different title

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.

### **ANTH 4311 (3CR) CRITICAL ETHNOGRAPHY**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3021 or 3031; 3311; 3 credits from ANTH 3800 series; or permission of the Department

**Exclusion:** SOAN 4311

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.

### **ANTH 4421 (3CR) THE ANTHROPOLOGY OF PERFORMANCE**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3021 or 3031; 3311; 3401 or 3421; or permission of the Department

**Exclusion:** ANTH 4401; SOAN 4401

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.

### **ANTH 4531 (3CR) CULTURAL ECOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3541; or permission of the Department

**Exclusion:** SOAN 4541

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.

### **ANTH 4621 (3CR) THE BODY IN CULTURE**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3021 or 3031; 3311; 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.

### **ANTH 4721 (3CR) GLOBALIZATION AND SOCIAL CHANGE**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3021 OR 3031; 3311; 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.

### **ANTH 4901 (3CR) ISSUES IN ANTHROPOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3021 or 3031; three additional 3000 level credits in Anthropology; or permission of the Department

**Exclusion:** SOAN 4901

A study of specific issues in Anthropology.

### **ANTH 4911 (3CR) ADVANCED SPECIAL TOPICS IN ANTHROPOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** ANTH 3021 or 3031; three additional credits in Anthropology; or permission of the Department

An advanced course which focuses on topics not covered by current course offerings in Anthropology, or topics not covered in depth in the courses offered.

### **ANTH 4990 (6CR) HONOURS THESIS**

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

### **SOCIOLOGY/ANTHROPOLOGY**

**Note:** Interdisciplinary Major and Honours in Sociology/Anthropology are also available. See Sociology/Anthropology.

## AVIATION

B.Sc. MAJOR IN AVIATION, PENDING MPHEC APPROVAL

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)
- b) Each prospective student for the Major in Aviation must be accepted by the Moncton Flight College. Therefore prospective students should consult with the Moncton Flight College as early as possible before the application deadline.

### Interdisciplinary B.Sc. Program

**MAJOR in Aviation is 84 credits earned as follows:**

- 6 from CHEM 1001, 1021
- 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 from Moncton Flight College as follows: the requirements for flight training outlined in the Handbook for the Mount Allison Bachelor of Science(Aviation) including credits earned through the Moncton Flight College and the New Brunswick Community College, and the Commercial Pilot Licence with Multi-engine and Instrument Flight Rules ratings. Twelve credits are designated at the 3000/4000 level.

\*Note that many 3000/4000 level courses will have one to several prerequisite courses; consultation must occur before the student's second year of study.

## 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, 2011
- 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, 2011
- 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 or Program Co-ordinator must be obtained.

## ART HISTORY COURSES

See Fine Arts

## BIOCHEMISTRY

Biochemistry is the study of the chemicals structures and processes of living organisms.

### Interdisciplinary B.Sc. Programs

**MAJOR in Biochemistry is 75 credits earned as follows:**

- 3 from BIOC 1001
- 3 from BIOL 1501
- 6 from MATH 1111, 1121, 1131
- 6 from PHYS 1051, 1551, 3521
- 6 from CHEM 1001, 1021
- 6 from CHEM 2111, 2411
- 3 from BIOL 2601
- 6 from BIOL 2101, 2301, 2401, 2701, 3101, 3111, 3211, 3311, 3711, 4151, 4211, GENS 1401
- 9 from CHEM 2121, 2211, 2311, 3131
- 3 from BIOC 2001
- 12 from BIOC 3001, 3021, 3501, 3521
- 6 from Biochemistry at the 3/4000 level
- 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 or Program Co-ordinator must be obtained.

### BIOC 1001 (3CR) BIOCHEMISTRY I

**Format:** Integrated Lecture And Tutorial, 3 Hours

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.

### BIOC 2001 (3CR) BIOCHEMISTRY II

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOC 1001; or permission of the Program Advisor

**Exclusion:** Any version of BIOC 2001 previously offered with a different title

This course discusses the structures, properties, reactions, and syntheses of the principal macromolecules in living cells with a major emphasis on the relation between the structures and functions. It also explores elementary enzyme catalysis and covers the paths, key structures, and organization of primary metabolism including glycolysis, citric acid cycle, beta oxidation of fatty acids, respiratory electron transport, chemiosmotic generation of ATP, and photosynthesis with an emphasis on bioenergetics, oxidation and reduction, and metabolic fluxes.

### BIOC 3001 (3CR) EXPERIENTIAL BIOCHEMISTRY

**Format:** Integrated Lecture And Laboratory, 6 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

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.

### BIOC 3021 (3CR) MOLECULAR ANALYSES

**Format:** Integrated Lecture And Laboratory, 6 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

**Exclusion:** BIOC 3531

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.

### BIOC/CHEM 3131 (3CR) ORGANIC CHEMISTRY: BIOORGANIC

**Format:** Lecture 3 Hours

**Prereq:** CHEM 2121; or permission of the Chemistry Department

**Note:** This course is cross-listed and may therefore count as three credits in either discipline. Chemistry students should register for CHEM 3131

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.

### **BIOC 3501 (3CR) METABOLISM**

**Format:** Lecture 3 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

This course examines the co-ordinated biochemical transformations of matter, energy and information through metabolic pathways. It covers metabolic strategies and pathways, including chemoautotrophic, heterotrophic, and photoautotrophic metabolism. It emphasizes carbohydrate and amino acid metabolism, with related topics in lipid, nucleotide, and secondary metabolism. There is a strong emphasis on how organisms integrate metabolic paths, and how fluxes through paths are balanced.

### **BIOC 3511/4511 (3CR) INDEPENDENT RESEARCH IN BIOCHEMISTRY**

**Format:** Independent Research

**Prereq:** Consent of supervising staff member prior to registration and permission of the Program Advisor

This course provides an opportunity for a student to undertake research of a topic in which she or he has a special interest. The student and a faculty member must jointly plan the research project.

### **BIOC 3521 (3CR) PROTEIN BIOCHEMISTRY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

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.

### **BIOC/BIOL 3711 (3CR) BIOCHEMICAL ECOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** BIOL 2101, BIOC 2001; or permission of the Biology Department

**Note:** This course is cross-listed and may therefore count as three credits in either discipline.

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.

### **BIOC 3911/3921/4911/4921 (3CR) SELECTED TOPICS IN BIOCHEMISTRY**

**Format:** Variable

**Prereq:** Permission of the Program Advisor

These courses deal with different selected areas in Biochemistry. The course content and format vary depending on the particular area of biochemistry to be covered.

### **BIOC 4011 (3CR) IMMUNOCHEMISTRY**

**Format:** Lecture 3 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

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.

### **BIOC 4021 (3CR) LIPID AND MEMBRANE BIOCHEMISTRY**

**Format:** Lecture 3 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

This course covers the metabolism of major classes of lipids, their roles in signal transduction, and their interactions with proteins.

### **BIOC 4031 (3CR) SIGNAL TRANSDUCTION**

**Format:** Lecture 3 Hours

**Prereq:** BIOC 2001; or permission of the Program Advisor

**Exclusion:** BIOC 4501

This course examines 'traditional' theories and modeling of biochemical regulation at the levels of substrate, enzyme (particularly through phosphorylation networks), gene transcription, and protein translation. It compares this traditional approach to alternative systems based approaches of metabolic control theory and looks at how biochemical systems adapt to drastic modification through gene knockouts or protein over expression, and examines how some of these recent approaches pose a serious challenge to conventional thinking on biochemistry and physiology.

### **BIOC/CHEM 4351 (3CR) INORGANIC CHEMISTRY: BIOINORGANIC**

**Format:** Lecture 3 Hours

**Prereq:** CHEM 3321; or permission of the Chemistry Department

**Note:** This course is cross-listed and may therefore count as three credits in either discipline.

This course examines the roles metals play in biochemical systems, and includes an overview of bioinorganic chemistry and a discussion of metals in medicine.

### **BIOC 4903 (3CR) CURRENT ADVANCES IN BIOCHEMISTRY**

**Format:** Seminar 3 Hours

**Coreq:** Registration in BIOC 4990; or permission of the Program Advisor

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.

## BIOC 4990 (6CR) HONOURS THESIS

**Format:** Independent Study/Thesis

**Prereq:** Consent of supervising staff member prior to registration and permission of the Program Advisor

The honours thesis is based upon a program of original student research conducted with the advice of an academic supervisor.

## 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 underline 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
- 9 from BIOC 2001, BIOL 2101, 2301, 2401, 2601, 2701, 3011, 3101
- 6 from Biology at the 3/4000 level, chosen in consultation with the Program Advisor

#### MAJOR in Biology is 63 credits earned as follows:

- 6 from BIOL 1001, 1501
- 3 from PHYS 1051
- 3 from PHYS 1551, 3521
- 6 from MATH 1111, and three other credits in Mathematics or Computer Science selected from MATH 1121, 1131, 1251, 2211, 2221, 2311, or COMP 1631
- 6 from CHEM 1001, 1021
- 3 from BIOC 1001
- 18 from BIOC 2001, BIOL 2101, 2301, 2401, 2601, 2701, 3011, 3101
- 18 additional credits from Biology at the 3/4000 level

**Note:** Additional 3/4000 level courses are needed to fulfill Calendar Regulation 7.3.5

**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).

**Note:** A placement test is available for BIOL 1001. Any student exempted from BIOL 1001 must replace that course with a Biology course at a higher level, chosen in consultation with the Program Advisor.

**HONOURS in Biology is 78 credits earned as follows:**

- 63 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 or Program Co-ordinator must be obtained.

**BIOL 1001 (3CR)  
INTRODUCTORY BIOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

A lecture and laboratory course designed to present a general introduction to the biology of living organisms. A systems approach will be used to explore how living organisms respond to the complex problems encountered while obtaining nutrition, carrying out internal fluid transport and gas exchange, getting rid of wastes, and growing and interacting with the environment and other life.

**BIOL 1201 (3CR)  
HUMAN BIOLOGY**

**Format:** Lecture 3 Hours

**Note:** This course is restricted to non-science majors. Science majors require the instructor's permission to enrol.

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.

**BIOL 1211 (3CR)  
WORLD ECOSYSTEMS**

**Format:** Lecture 3 Hours

This course will introduce students to the basic concepts of population, community and ecosystem level ecology. Topics will include population growth, competition, succession, community composition and the cycling of energy. Field and laboratory work will stress direct measurement and observation of natural situations that illustrate these concepts. Students will take this course at a field station that offers adequate housing and laboratory facilities. These field stations may be anywhere in the world, but would most likely be in the Maritimes, the Caribbean or the Canadian Rockies. This course is offered only during the spring/summer session through Continuous Learning and only to non-Science majors.

**BIOL 1501 (3CR)  
CELL BIOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** CHEM 1001; or permission of the Department

A course providing an introduction to the structure, organization and functions of the cell, which is the fundamental structural and functional unit of living organisms. Particular emphasis will be placed on eukaryotic cells. Topics to be discussed include membranes and organelles, communication within and between cells, membrane transport, the cell cycle, meiosis and mitosis. There is a laboratory component to this course.

**BIOL 2101 (3CR)  
INTRODUCTION TO ECOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 1001; or permission of the Department

**Exclusion:** Any version of BIOL 2101 previously offered with a different title

A course designed to introduce current concepts of population and community ecology through lectures, field trips and laboratory exercises, using local organisms whenever possible. Familiarity with these organisms, principally aquatic insects, will be obtained through field trip and laboratory exercises.

**BIOL 2301 (3CR)  
PLANT BIOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 1001; or permission of the Department

An introductory course in botany designed to present the structure and function of plants with an emphasis on vascular plants. Topics considered will include comparative evolutionary history, and development and functional adaptations to the environment.

**BIOL 2401 (3CR)  
ANIMAL BIOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 1001; or permission of the Department

A lecture and laboratory course introducing students to the structure and function of major groups of invertebrate and vertebrate animals on a comparative basis. Topics to be covered in lectures will include comparative anatomy and phylogeny, and the evolution and function of locomotory, digestive, excretory, respiratory, nervous and reproductive systems. Laboratory exercises will be based on observation of both preserved and living material.

**BIOL 2601 (3CR)  
GENETICS****Format:** Lecture 3 Hours, Laboratory 3 Hours**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.

**BIOL 2701 (3CR)  
BIOMETRICS****Format:** Lecture 3 Hours**Prereq:** BIOL 1501, the completion of the Mathematics/Computer Science requirement on the Bachelor of Science, and at least two second-year Biology courses; or permission of the Department**Exclusion:** BIOL 3701**Note:** Students may count for credit towards a degree a maximum of 6 credits from BIOL 2701, GENS 2431, MATH 2311, and PSYC 2001

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.

**BIOL 3011 (3CR)  
EVOLUTION****Format:** Lecture 3 Hours**Prereq:** BIOL 2601; or permission of the Department

A lecture-tutorial course investigating modern theories of biological evolution and natural selection. Discussion of these ideas requires an understanding of the types of evidence for biological change in organisms, of Mendelian genetics and mechanisms of inheritance, of sources of genetic variability in natural populations and of genetic equilibrium of populations.

**BIOL 3021 (3CR)  
PALAEOLOGY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** BIOL 2301 and 2401; or permission of the Department

Life on earth did not always exist in the form we know it today. Both physical and biological aspects of the environment have changed repeatedly and dramatically over time. This course will provide an overview of the major fossil plant and animal taxa in the context of the history of life on Earth. Morphology and anatomy of organisms will be discussed in relation to accompanying changes in marine and terrestrial environments. The diagnostic features of the organisms used as time (biostratigraphy) and/or environmental (paleoecology) indicators will be emphasized when appropriate. We will discuss macroscopic and microscopic forms of life.

**BIOL 3101 (3CR)  
MICROORGANISMS****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** BIOC 2001; or permission of the Department

An introduction to the protists (algae, bacteria, fungi, protozoa) and to the viruses. The intent of this course is to make students familiar with the characteristics and nomenclature used to distinguish: (1) cells and viruses, (2) the major protists, and (3) sub-groups within each protist group. The natural and applied roles of these organisms will be discussed. Special emphasis will be placed on discussion of the bacteria because of the great diversity of habitats which are occupied as well as the equally great diversity of roles performed. Laboratory work will introduce the students to microbiological techniques and methods of identification.

**BIOL 3111 (3CR)  
FUNCTIONAL MICROBIOLOGY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** BIOC 2001; or permission of the Department**Exclusion:** any version of BIOL 3111 previously offered with a different title

This course emphasizes the ecophysiology of microorganisms, particularly prokaryotes, and their key roles in biogeochemical cycles. We will cover the key functional microbial groups which mediate major steps in the biogeochemical cycles, their ecological requirements and the limiting factors on their growth and activity. This will lead to discussion of the roles of microorganisms in current issues in biology and environmental science, including bio-remediation, biological control, climate change, antibiotic resistance, food processing and (re)emerging pathogens.

**BIOL 3201 (3CR)  
ANIMAL PHYSIOLOGY; ADAPTATION AND ENVIRONMENT****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** BIOL 2401; or permission of the Department

This course will focus on the physiological processes underpinning a monumental step in the evolution of the vertebrates, the transition from water to land. In lectures and laboratory exercises, the respiratory, circulatory, acid-base and osmoregulatory adaptations seen in fish to humans will be examined. The integration of animal physiology with the environment will also be studied by investigating metabolism and temperature.

**BIOL 3211 (3CR)  
HUMAN CELL PHYSIOLOGY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** BIOC 2001; or permission of the Department**Exclusion:** any version of BIOL 3211 previously offered with a different title

This course will investigate physiological processes at the level of the animal cell. In lectures and laboratory exercises, we will examine major principles in neurophysiology, muscle function, sensory systems and endocrinology.

### **BIOL 3311 (3CR)** **DEVELOPMENTAL BIOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 2601; or permission of the Department

**Exclusion:** any version of BIOL 3311 previously offered with a different title

This course examines the development of selected invertebrates, vertebrates and plants. Topics to be covered include gametogenesis, fertilization, mechanisms of cleavage and gastrulation, the organization of the early embryo as deduced from experimental manipulation, pattern formation, cloning, and regeneration.

### **BIOL 3331/3341 (3CR)** **SELECTED TOPICS IN MARINE SCIENCE I AND II**

**Format:** Field Courses At Huntsman Marine Science Centre

**Prereq:** BIOL 2101, 2301, 2401; or permission of the Department

The courses taken for these credits will be from among those offered in the Summer at the Huntsman Marine Science Centre in St. Andrews, N.B. Since course offerings will change yearly, students must obtain permission from the Department before enrolling for any course. All costs associated with the course must be borne by the student.

### **BIOL 3351 (3CR)** **MARINE BOTANY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**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.

### **BIOL 3361 (3CR)** **MARINE BIOLOGY I: COASTAL SYSTEMS**

**Format:** Lecture 3 Hours, Field Trip

**Prereq:** BIOL 2101, 2301, 2401; or permission of the Department

Estuarine, intertidal and subtidal ecosystems exist at the interface of marine and terrestrial environments. In this course, students will study the ecology of these systems at the individual, population and community level. Topics will include community structure, food webs, reproductive biology of benthic organisms, and effects of physical and anthropogenic factors. The course will involve a field trip to the Huntsman Marine Sciences Centre in St. Andrews, N.B. Students will be expected to contribute to their accommodation costs.

### **BIOL 3371 (3CR)** **MARINE BIOLOGY II: OPEN OCEAN**

**Format:** Lecture 3 Hours, Field Trip/Laboratory 3 Hours

**Prereq:** BIOL 2101, 2301, 2401; or permission of the Department

Two-thirds of the Earth surface is occupied by pelagic environment of an approximate mean depth of 3700 meters, the open ocean. The evolution of the oceanic basins and the physical and chemical properties of their waters will be discussed in the context of their biological significance. Emphasis will be placed on the functioning of major ecological groups (plankton, nekton and benthos) and on processes controlling their interactions. The course will involve a field trip to the Huntsman Marine Science Centre at St. Andrews where students will study populations and communities of local plankton, nekton and benthos. Students will be expected to contribute to their accommodation costs.

### **BIOL 3401 (3CR)** **ANIMAL BEHAVIOUR**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 2101, 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.

### **BIOL 3411 (3CR)** **ICHTHYOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 2101 and 2401; 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, the most diverse and abundant taxonomic group of living vertebrates. Lectures will focus on adaptations that have allowed fishes to occupy most aquatic habitats and to become the most evolutionary successful group of vertebrates. Lectures will cover aspects of form and function, ecology and behaviour of evolutionary relationships. Laboratory exercises will provide students with practical experience at identifying specimens and learning about their form, function, behaviour, ecology and evolution.

### **BIOL/GENS 3421 (3CR)** **BIOGEOGRAPHY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** GENS 2431, 2421; or permission of the Department

**Exclusion:** GEOG 3421

**Note:** This course is cross-listed with BIOL 3421 and may therefore count as three credits in either discipline.

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.

**BIOL 3451 (3CR)  
ENTOMOLOGY**

**Format:** Lecture 3 Hours, Laboratory/Field Trip 3 Hours

**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.

**BIOL 3501 (3CR)  
NATIVE FLORA (VASCULAR PLANTS)**

**Format:** Lecture 3 Hours, Laboratory/Field Trip 3 Hours

**Prereq:** BIOL 2301; or permission of the Department

A field-oriented course on identification, taxonomy, and ecology of vascular plants.

**BIOL 3601 (3CR)  
ECOLOGICAL GENETICS**

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Prereq:** Biology 2601, Math 1111, or permission of the Department

This course builds on the material presented in Introductory Genetics, presenting theoretical concepts used in investigating the genetic properties of populations. The basic concepts used to describe and measure the genetic variation within and between populations will be presented in a lecture format. Theoretical and observed consequences of population differences will be considered. Students will be expected to participate in discussions and debates focussing on topics related to population genetics. tutorials will provide opportunities to work through mathematical treatments of models and problem solving.

**BIOL 3611 (3CR)  
MAMMALOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 2101, 2401; or permission of the Department

Mammals are a successful and diverse group of vertebrates which have long been of cultural, economic and scientific interest to humans. This course will outline the evolution, radiation and biogeography of mammals, followed by a detailed examination of all extant mammalian orders. A strong emphasis of the course will be on the biology, ecology and conservation of North American mammals; however, students will also gain an appreciation for the world-wide diversity of mammals, their life history strategies, and related conservation issues.

**BIOL 3651 (3CR)  
INTRODUCTION TO ORNITHOLOGY**

**Format:** Lecture 3 Hours, Laboratory/Field Trip 3 Hours

**Prereq:** BIOL 2101, 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.

**BIOL/BIOC 3711 (3CR)  
BIOCHEMICAL ECOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** BIOL 2101, BIOC 2001; or permission of the Biology Department

**Note:** This course is cross-listed and may therefore count as three credits in either discipline.

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.

**BIOL 3751 (3CR)  
COMPARATIVE CHORDATE ANATOMY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**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.

**BIOL 3801 (3CR)  
THEORETICAL AND EVOLUTIONARY ECOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** BIOL 2101; MATH 1111; third year standing or permission of the Department

This course critically evaluates theories of population and evolutionary ecology that were introduced in BIOL 2101. It explores the effects of specific parameters on the predicted outcomes of classical ecological (such as population growth, competition, predation, and community) and evolutionary models using a suite of mathematical and simulation techniques. The course assesses the limitations, application, and interpretation of outcomes for each examined model.

**BIOL 3811 (3CR)  
CONSERVATION BIOLOGY**

**Format:** Lecture 3 Hours

**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.

### **BIOL 3911 (3CR)** **PLANTS AND HUMAN SOCIETY**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** First year level Biology; or permission of the Department  
This course will deal with the interactions between plants and human societies from the time of the introduction of agriculture until the present. It will include the consideration of the evolution of vascular plants, especially those important to agriculture and forestry. It will emphasize the origins of agriculture on various continents; it will discuss economic botany and the present day commercial uses of plants. Consideration will be given to interrelations between plants and societies in their dietary, cultural and religious connotations. Finally, the course will consider world food shortages, either present or potential, and possible ways to alleviate these.

### **BIOL 3941 (3CR)** **PLANT PHYSIOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** BIOL 2301 and BIOC 2001; or permission of the Department  
A lecture and laboratory course designed to present a general introduction to the physiology of plants. Topics that will be 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, as well as uptake and water transport within the plant; and mineral nutrition including uptake and transport of nutrients as well as their distribution and use.

### **BIOL 4101 (3CR)** **BEHAVIOURAL ECOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** BIOL 3011, 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.

### **BIOL 4111 (3CR)** **FIELD ECOLOGY**

**Format:** Lecture 3 Hours, Laboratory/Field Trip 3 Hours

**Prereq:** BIOL 2101, 3701; or permission of the Department  
This course will introduce students to the basic principles of field ecology research, experimental design, and data analysis, through lectures, laboratories, field trips, course readings, and guest speakers. The course will focus on various techniques used in quantitative field ecology, including the design of observational studies, environmental impact assessments, and manipulative experiments used for the description and classification of habitats, and assessing the ecological factors that influence plant and animal distribution and abundance. Throughout the course we will also read, critique and discuss research papers from the primary ecological literature.

### **BIOL 4141 (3CR)** **MYCOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** BIOL 3101 (or as a co-requisite); or permission of the Department

This course will give an overview of true Fungi (Ascomycetes, Basidiomycetes, Zygomycetes and Chytridiomycetes), and of the fungus-like Oomycetes. Structure/function relationships will be emphasized, as well as the significance of the various groups in ecology, medicine, plant disease and their use in industry.

### **BIOL 4151 (3CR)** **VIROLOGY**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** BIOL 2601, 3101 (with permission, BIOL 3101 may be taken as a co-requisite); or permission of the Department

This is an introductory course on virology that will cover the fundamental features of animal, bacterial, and plant viruses. Lectures will cover 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. The role of viruses as agents of evolutionary change, and their use in modern molecular genetics will also be discussed.

### **BIOL 4201 (3CR)** **ENVIRONMENTAL PHYSIOLOGY**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** BIOL 3201, 3211; or permission of the Department  
**Exclusion:** BIOL 4201 - Topics in Comparative Animal Physiology

This advanced course in animal physiology will examine the physiological and biochemical strategies animals use to survive in diverse, often stressful environments. Using primary literature from scientific journals, this course will focus on animal responses to environmental conditions such as hypoxia/anoxia, high and low temperatures, overwintering, altitude, environmental pollutants, osmotic stress and UV radiation. Weekly discussion groups on recent topical papers will form a major component of this course.

### **BIOL 4211 (3CR)** **ENDOCRINOLOGY**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** BIOL 3201 or 3211; or permission of the Department

This is a course that will cover vertebrate hormone systems generally although some aspects of invertebrate systems may be examined. Lectures and seminars will discuss hormone synthesis, control of secretion, modes of secretion and general mechanisms of action. Also, specific hormone systems such as the hypothalamus-pituitary axis, renin-angiotensin system, pituitary-adrenal axis etc., will be examined.

### **BIOL 4221 (3CR)** **EXERCISE PHYSIOLOGY**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** BIOL 3201, 3211; or permission of the Department

This advanced lecture-based course will explore the metabolic and systemic basis of exercise, the physiology of training and performance and exercise under special conditions (environment, disease). In addition to studying these fundamentals of exercise physiology, we will also delve into recent research and advancements in the field.

**BIOL 4301 (3CR)**  
**PHYSIOLOGICAL PLANT ECOLOGY****Format:** Lecture/Seminar/Laboratory Project 3 Hours**Prereq:** BIOL 2101 and 2301; or permission of the Department

The emphasis in this course will be on the ways plants respond to their environment. Topics include a discussion of transpiration and heat transfer, photosynthesis in nature, vernalization, photoperiodism and response to stress such as drought, temperature, salinity and pollutants.

**BIOL 4371 (3CR)**  
**ADVANCED MARINE SCIENCE****Format:** Lecture/Seminar 3 Hours**Prereq:** One of BIOL 3351, 3361 or 3371; or permission of the Department

This course provides students who are seriously interested in marine science with an opportunity for in depth study of selected topics from the most progressive areas of marine science. Depending on student interest all or some of the following areas will be addressed: advances in biological, geological, chemical and physical oceanography and methodology (e.g. application of remote technology in marine exploration, ultra-clean methods of measuring trace nutrients). Emphasis will be placed on specific topics whose progress carries global significance and may include ocean/atmosphere interactions, sustainable fisheries, integrative aquaculture, marine ecological engineering, etc.

**BIOL 4401 (3CR)**  
**EVOLUTIONARY BIOLOGY OF SEX AND REPRODUCTION****Format:** Seminar 3 Hours**Prereq:** BIOL 3011, 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.

**BIOL 4511 (3CR)**  
**TOPICS IN INVERTEBRATE ZOOLOGY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** BIOL 2401; or permission of the Department

A course allowing detailed study into several aspects of invertebrate zoology. Each student will be expected to research a specific group of invertebrates thoroughly, and to communicate this information to the other members of the class. In addition, the student will undertake a laboratory study of a topic of interest in invertebrate zoology.

**BIOL 4701 (3CR)**  
**TROPICAL MARINE BIOLOGY****Format:** Lecture 3 Hours, Field Trip**Prereq:** BIOL 2101, 2401, and one of BIOL 3361, 3371; and permission of the Department

This lecture and field course will introduce students to the fauna, flora and complex interactions in tropical habitats and allow independent research in such habitats. Habitats explored will be coral reefs, reef lagoons, mangrove swamps and rocky shores. Ecological and behavioural interactions of organisms in those areas will be stressed. The field component of this course will take place at a field station in the Caribbean for twelve days that include the week of Independent Study. The course will include six, 3 hour lectures and two weeks at the Field Station. Students will pay all costs of transportation, room, board and lab fees for this expedition.

**BIOL 4711 (3CR)**  
**ADVANCED BIOMETRICS****Format:** Lecture 3 Hours, Tutorial 1 Hour**Prereq:** MATH 2311, or PSYC 2011, or BIOL 2701, or GENS 2431; or permission of the Department

This is an applied course dealing with the collection and analysis of biological data. Basic techniques will be reviewed, and students will be exposed to a variety of statistical techniques including advanced ANOVA and regression, techniques for categorical data, resampling methods, MANOVA and other multivariate techniques. The range of topics covered depends to some extent on the interest and experience of the participants. Experimental design issues such as power analysis and pseudoreplication will be considered throughout. The focus of this course is on teaching students how to design studies with clear hypotheses, select appropriate statistical methods, and carry out the analyses. Students will apply the techniques they have learned in lectures to real data sets. The course is intended for upper-level undergraduates with an interest in analysis of biological data. It would be especially beneficial for those who are either pursuing honours or wish to do so, and for those who intend to continue on to graduate studies.

**BIOL 4903 (3CR)**  
**CURRENT ADVANCES IN BIOLOGY****Format:** Lecture/Seminar 3 Hours**Coreq:** Registration in BIOL 4990; or permission of the Department

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.

**BIOL 4911 (3CR)**  
**SELECTED TOPICS IN BIOLOGY****Format:** Lecture 3 Hours, Laboratory 3 Hours

The course deals with different selected areas in Biology. The course content, format and prerequisites will vary depending on the particular area of biology to be covered.

### BIOL 4950 (6CR) SPECIAL TOPICS IN BIOLOGY

**Format:** Independent Study

**Prereq:** Permission of the Department. Each student must obtain, prior to registration, consent of a staff member who is willing to be a supervisor.

A course to permit an advanced student to pursue a special field of study, or to take advantage of a different approach under the direction of an appropriate staff member. Each student's program will be planned individually using lectures, reading, tutorials, laboratory work, etc.

### BIOL 4990 (6CR) THESIS

**Format:** Independent Study/Thesis

**Prereq:** Consent of supervising staff member prior to registration and permission of the Department

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.

## GRADUATE BIOLOGY COURSES

### BIOL 5103 (3CR) GRADUATE STUDIES IN BIOLOGY I

**Format:** Independent Study

**Prereq:** Registration in the M.Sc. program and permission of the Department

### BIOL 5113 (3CR) GRADUATE STUDIES IN BIOLOGY II

**Format:** Independent Study

**Prereq:** Registration in the M.Sc. program and permission of the Department

### BIOL 5203 (3CR) GRADUATE STUDIES IN BIOLOGY III

**Format:** Independent Study

**Prereq:** Registration in the M.Sc. program and permission of the Department

### BIOL 5213 (3CR) GRADUATE STUDIES IN BIOLOGY IV

**Format:** Independent Study

**Prereq:** Registration in the M.Sc. program and permission of the Department

### BIOL 5990 (6CR) M.SC. THESIS IN BIOLOGY

**Format:** Independent Study/Thesis

## 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, 4440, 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 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:**

- 12 from CANA 2001, 2011, 4600
- 12 from CANA 3111, 3121, 3251, 3301, 3401, 3421, 3431, 3441, 4251, 4951, chosen in consultation with the Program Advisor

**MAJOR in Canadian Studies is 60 credits earned as follows:**

- 12 from CANA 2001, 2011, 4600
- 12 from CANA 3111, 3121, 3251, 3301, 3401, 3421, 3431, 3441, 4251, 4951
- 6 from FREN 1701, 1711, 2401, 2501, 2601 or any third year course on the language or literature of French Canada
- 12 from English 1/2000 series, ECON 1001 and 1011, FINA 2001, 2011, FREN 1811, MUSC 2001, 2011, POLS 1001, HIST 2411, 2421, GENV 1201, 2311, SOCI 1001, ANTH 1011
- 18 from Options A, B, C, or D below, chosen in consultation with the Program Advisor

#### A. Multidisciplinary Overview:

ANTH 3801, 3821, 3851  
 ECON 2301, 2311, 3101, 3111, 3201, 3211, 3611, 3621 3721  
 ENGL 2801, 3801, 3811, 3821, 3831, 4801  
 FINA 3021, 3031  
 FREN 2601, 3721, 3731, 3741, 3771, 3861  
 GENV 3301, 3511, 4311

HIST 3401, 3411, 3421, 3431, 3441, 3471, 3481, 4420, 4440, 4450, 4461  
 LING 3011  
 MUSC 3001  
 POLS 2101, 3031, 3101, 3111, 3121, 4100, 4300  
 SOCI 2211, 2531, 3111, 3121, 3221, 3501, 3511, 3521, 4521

#### B. Arts and Literature:

ENGL 2801, 3801, 3811, 3821, 3831, 4801  
 FINA 3021, 3031  
 FREN 2601, 3721, 3731, 3741, 3861  
 MUSC 3001

#### C. Historical Perspectives:

ECON 3611, 3721  
 ENGL 2801  
 FINA 3021, 3031  
 GENV 3301, 3511  
 HIST 3401, 3411, 3421, 3431, 3441, 3471, 3481, 4420, 4440, 4450, 4461  
 POLS 2101, 3101, 3111, 3121, 4100, 4300

#### D. Social Perspectives:

ANTH 3801, 3821, 3851  
 ECON 2301, 2311, 3101, 3111, 3201, 3211, 3611, 3621, 3721  
 GENV 3201, 3301, 3511  
 HIST 3471, 3481, 4461  
 LING 3011  
 POLS 2101, 3031, 3101, 3111, 3121, 4100, 4300  
 SOCI 2211, 2531, 3111, 3121, 3221, 3501, 3511, 3521, 4521

**HONOURS in Canadian Studies is 72 credits earned as follows:**

- 60 credits as in the Major, plus
- 3 further from CANA 3111, 3121, 3251, 3301, 3401, 3421, 3431, 3441, 4251, 4951
- 3 credits from CANA 4901
- 6 credits 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 or Program Co-ordinator must be obtained.

### CANA 2001 (3CR)

#### CANADA AND THE MODERN AGE: AN INTRODUCTION TO THE CANADIAN COMMUNITY

**Format:** Lecture/Tutorial 3 Hours

This course provides students with an introduction to contemporary Canada, with a particular focus on politics and economics. It examines the nature of the Canadian economy, the nature and organization of the Canadian state, current political issues, and Canada's place in world affairs.

**CANA 2011 (3CR)  
AN INTRODUCTION TO CANADIAN CULTURE**

**Format:** Lecture/Tutorial 3 Hours

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.

**CANA 3111 (3CR)  
NATIVE PEOPLES OF CANADA**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and 2011; or permission of the Program Advisor

**Exclusion:** CANA 3100

This course explores the dynamics of contemporary First Nations culture in Canada from an interdisciplinary perspective. Among the key issues it seeks to explore are: the development of Native arts and culture in modern Canada, contemporary First Nations philosophy and ethics, and the politics of self-government among various First Nations.

**CANA 3121 (3CR)  
MULTICULTURALISM, IMMIGRATION, AND DIVERSITY IN CANADA**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and 2011; or permission of the Program Advisor

This course will explore the historical development of multiculturalism, its policy framework, alternative conceptions of plurality and diversity within Canada, demographic trends, and current controversies surrounding multiculturalism. It will conclude by looking at future developments in ethno-cultural diversity within Canada and where they might take the Canadian nation.

**CANA 3251 (3CR)  
INTERMEDIATE SELECTED TOPICS IN CANADIAN STUDIES**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and CANA 2011; or permission of Program Advisor

This is an intermediate course which focuses on topics not covered by current course offerings in Canadian Studies, or topics not covered in depth in the courses offered.

**CANA 3301 (3CR)  
CANADIAN WOMEN: CRITICAL PERSPECTIVES**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and 2011; or permission of the Program Advisor

**Exclusion:** CANA 3300

This course provides an interdisciplinary perspective on the role and status of women in contemporary Canada. It focuses on the history of women's political movements, the changing status of women, the impact of the "second wave" of Canadian feminism, Native women, and recent immigrants.

**CANA 3401 (3CR)  
CONTEMPORARY CANADIAN ISSUES**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing, including at least 6 credits in Humanities and/or Social Sciences; or permission of the Program Advisor

**Exclusion:** CANA 3400

This course explores contemporary Canadian issues in light of the evolution and development of Canadian institutions, belief systems and social relations.

**CANA 3421 (3CR)  
CANADIAN-AMERICAN RELATIONS**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and CANA 2011; or permission of 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.

**CANA 3431 (3CR)  
COMPARATIVE CANADIAN REGIONALISM**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and CANA 2011; or permission of 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.

**CANA 3441 (3CR)  
FILM IN CANADA**

**Format:** Lecture 3 Hours

**Prereq:** CANA 2001 and CANA 2011; or permission of Program Advisor

This course offers an introduction to film production in Canada in relation to key themes of Canadian Studies such as national identity, regionalism, First Nations, multiculturalism, Canadian-American relations, and globalization.

**CANA 4251 (3CR)  
SPECIAL TOPICS IN CANADIAN STUDIES**

**Format:** Seminar 3 Hours

**Prereq:** CANA 2001 and 2011; or permission of the Program Advisor

This course allows a group of students the opportunity to pursue a topic of special interest, not covered in other Canadian Studies offerings.

**CANA 4600 (6CR)  
INTERDISCIPLINARY SEMINAR ON MAJOR CANADIAN ISSUES**

**Format:** Seminar 3 Hours

**Prereq:** CANA 2001 and 2011; or permission of the Program Advisor

An interdisciplinary seminar on questions of national importance.

### CANA 4901 (3CR) DIRECTED READINGS IN CANADIAN STUDIES

**Format:** Seminar 3 Hours

**Prereq:** Registration in CANA 4990; or permission of the Program Advisor

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.

### CANA 4951 (3CR) A PROGRAM OF INDEPENDENT STUDY

**Format:** Independent Study

**Prereq:** CANA 2001 and 2011; or permission of the Program Advisor

**Note:** Programs of Independent Study cannot duplicate subject matter covered through regular course offerings.

A fourth year tutorial course in a well defined subject area. The syllabus must be planned at the end of the student's third year, in consultation with the Director and, where applicable, with the professor with whom the student will work.

### CANA 4990 (6CR) HONOURS THESIS

**Format:** Thesis

**Prereq:** Permission of the Program Advisor

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.

## 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. The undergraduate 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 1501 or 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\*\*
- 3 from BIOC 1001
- 6 from PHYS 1051, 1551
- 12 from CHEM 2111, 2211, 2311, 2411
- 12 from CHEM 2121, 3231, 3321, 3421
- 12 from BIOC 2001 and Chemistry at the 3/4000 level, chosen in consultation with the Program Advisor

**Note:** \*\* MATH 2111 is required for CHEM 3241 which is a requirement for taking additional upper year Physical Chemistry, including CHEM 3251, 4211 and 4241.

**Note:** Additional 3/4000 level courses are needed to fulfill Calendar regulation 7.3.5

## 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 (C4990) course. This research is normally carried out in the summer months following the third year.

### HONOURS in Chemistry is 81 credits earned as follows:

- 48 credits as in first 7 lines of Major\*\*, plus
- 24 from BIOC 2001 and Chemistry at the 3/4000 level, chosen in consultation with the Program Advisor
- 3 from CHEM 4903
- 6 from CHEM 4990

**Note:** \*\*MATH 2111 is required for CHEM 3241 which is a requirement for taking additional upper year Physical Chemistry, including CHEM 3251, 4211 and 4241.

## 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 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 7.4. 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 or Program Co-ordinator must be obtained.

### CHEM 1001 (3CR) INTRODUCTORY CHEMISTRY I

**Format:** Lecture 3 Hours, Laboratory 3 Hours, Regular Tutorials  
**Prereq:** None

Fundamental concepts of introductory chemistry will be covered and expanded upon, including stoichiometry 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.

### CHEM 1021 (3CR) INTRODUCTORY CHEMISTRY II

**Format:** Lecture 3 Hours, Laboratory 3 Hours, Regular Tutorials  
**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.

### CHEM 1501 (3CR) CHEMISTRY IN MODERN SOCIETY

**Format:** Lecture 3 Hours  
**Prereq:** None

Chemistry topics that have bearing on modern living and the environment will be discussed. Fundamental notions of modern chemistry will be developed and links with other disciplines identified.

### CHEM 2111 (3CR) ORGANIC CHEMISTRY I

**Format:** Lecture 3 Hours, Laboratory 3 Hours  
**Prereq:** CHEM 1021; or permission of the Department  
**Exclusion:** CHEM 2101, 2131, 2141

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.

### CHEM 2121 (3CR) ORGANIC CHEMISTRY II

**Format:** Lecture 3 Hours, Laboratory 3 Hours  
**Prereq:** CHEM 2111; or permission of the Department  
**Exclusion:** CHEM 2101, 2131, 2151

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.

**CHEM 2211 (3CR)**  
**PHYSICAL CHEMISTRY I: THERMODYNAMICS****Format:** Lecture 3 Hours, Laboratory 3 Hours, Regular Tutorials**Prereq:** CHEM 1021, MATH 1121 or 1131; or permission of the Department

An introduction to the laws of thermodynamics and their application to ideal systems, mixtures and chemical reactions, will be provided. Thermochemistry, chemical and phase equilibria and electrochemistry will be discussed.

**CHEM 2311 (3CR)**  
**INORGANIC CHEMISTRY I: CO-ORDINATION CHEMISTRY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 1021; or permission of the Department**Exclusion:** CHEM 3311

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.

**CHEM 2411 (3CR)**  
**ANALYTICAL CHEMISTRY I****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 1021, MATH 1111; or permission of the Department**Exclusion:** CHEM 3411

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.

**CHEM 2511 (3CR)**  
**ENVIRONMENTAL CHEMISTRY I: INTRODUCTION TO THE CHEMISTRY OF THE ENVIRONMENT****Format:** Lecture 3 Hours, Tutorial 1 Hour**Prereq:** CHEM 1021, MATH 1111; or permission of the Department**Note:** CHEM 2511 credit will not fulfill any Chemistry requirements for a Minor, Major or Honours degree in Chemistry.

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.

**CHEM 3111 (3CR)**  
**ORGANIC CHEMISTRY III****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 2121; or permission of the Department**Exclusion:** CHEM 3141

The common spectroscopic techniques will be introduced in the context of structure elucidation. An introduction to Frontier MO theory, will be described. The application of synthetic reactions to total synthesis will be presented.

**CHEM 3121 (3CR)**  
**ORGANIC CHEMISTRY IV****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 3111; or permission of the Department**Exclusion:** CHEM 3151

Earlier coverage of spectroscopic techniques will be extended so that more interesting structural deductions can be made. Mechanistic and synthetic discussions will be integrated into the lecture material.

**CHEM/BIOC 3131 (3CR)**  
**ORGANIC CHEMISTRY: BIOORGANIC****Format:** Lecture 3 Hours**Prereq:** CHEM 2121; or permission of the Chemistry Department**Note:** This course is cross-listed and may therefore count as three credits in either discipline. Chemistry students should register for CHEM 3131

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.

**CHEM 3231 (3CR)**  
**PHYSICAL CHEMISTRY II: KINETICS****Format:** Lecture 3 Hours, Laboratory 3 Hours, Tutorials**Prereq:** CHEM 1021, MATH 1121; or permission of the Department**Exclusion:** CHEM 3221

This course examines physical and chemical applications of kinetics, including a variety of topics related to reaction mechanisms and dynamics. Specific topics include the prediction of kinetic behaviour of different mechanisms, the deduction of mechanisms, the interpretation of activation parameters from experimental data, and the effects of varying solvents and catalysts.

**CHEM 3241 (3CR)**  
**PHYSICAL CHEMISTRY III: QUANTUM CHEMISTRY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 1021, PHYS 1551, MATH 2111; or permission of the Department**Exclusion:** CHEM 3211

This course is an introduction to the application of quantum mechanics to chemistry. It discusses and applies the postulates of quantum mechanics to simple physical systems (such as particle in a box, harmonic oscillator and rigid rotor), with an emphasis on using quantum mechanics to understand the electronic structure of atoms and molecules.

**CHEM 3251 (3CR)**  
**PHYSICAL CHEMISTRY IV: SPECTROSCOPY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 3241; or PHYS 3821 (can also be taken as co-requisite); or permission of the Department

Application of quantum chemistry in spectroscopy will be discussed. A survey of the principles of electronic, vibrational, rotational and magnetic resonance spectroscopy will be presented. State of the art spectroscopic techniques and applications will also be addressed. Experiments and computational projects will be carried out so that students will gain a practical knowledge in design and application of spectroscopic measurements as well as interpretation of experimental data.

**CHEM 3321 (3CR)**  
**INORGANIC CHEMISTRY II: MAIN GROUP ELEMENTS****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 1021; or permission of the Department

The structure and bonding in main group compounds will be examined. Ionic and covalent bonding will be discussed with respect to Lewis, valence shell electron pair repulsion, valence bond and molecular orbital theories. Periodic trends and a survey of the properties and reactions of the elements of groups 1, 2 and 13 - 18 will also be examined.

**CHEM 3331 (3CR)**  
**INORGANIC CHEMISTRY III: ORGANOMETALLICS****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 2311; or permission of the Department

The structure, bonding and reactivity of organotransition metal complexes will be examined. Concepts covered will include the 18-electron rule, the isolobal analogy, catalysis, and the role metals play in organic synthesis.

**CHEM 3361 (3CR)**  
**INORGANIC CHEMISTRY IV: STRUCTURE AND BONDING IN MAIN GROUP CHEMISTRY****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** CHEM 3321; or permission of the Department

Topics in fundamental main group chemistry will be presented. Discussion will focus on synthetic approaches, spectroscopic analysis and structural aspects. An overview of the industrial application of main group chemistry will also be presented. Techniques required for the manipulation of air-sensitive materials will be considered.

**CHEM 3421 (3CR)**  
**ANALYTICAL CHEMISTRY II: INSTRUMENTAL METHODS OF ANALYSIS****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** PHYS 1551 or 3521, and CHEM 2411 or 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.

**CHEM 4131 (3CR)**  
**ORGANIC CHEMISTRY: SYNTHETIC CHEMISTRY****Format:** Lecture 3 Hours**Prereq:** CHEM 3121; or permission of the Department**Exclusion:** CHEM 4101

The synthesis of complex organic molecules will be discussed. Topics covered will include conformational analysis, stereoselectivity, transition metal mediated reactions, radical reactions, mechanism and synthetic strategy.

**CHEM 4141 (3CR)**  
**ORGANIC CHEMISTRY: PHYSICAL ASPECTS****Format:** Lecture 3 Hours**Prereq:** CHEM 3111, 3241, 3231; or permission of the Department**Exclusion:** CHEM 4111

The principles of bonding, structure and mechanisms in organic chemistry will be examined. Topics covered will 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.

**CHEM 4211 (3CR)**  
**PHYSICAL CHEMISTRY: STATISTICAL THERMODYNAMICS****Format:** Lecture 3 Hours, Major Term Project**Prereq:** CHEM 3241; or PHYS 3701 and 3821; or permission of the Department**Exclusion:** CHEM 4201

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.

**CHEM 4241 (3CR)**  
**PHYSICAL CHEMISTRY: COMPUTATIONAL****Format:** Lecture 3 Hours, Laboratory 1.5 Hours**Prereq:** CHEM 3241 or 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.

**CHEM 4261 (3CR)**  
**PHYSICAL CHEMISTRY: MODERN TOPICS****Format:** Lecture 3 Hours, Major Term Project**Prereq:** CHEM 3231; or permission of the Department

Current topics in physical chemistry will be discussed. Topics include solid-state chemistry, polymer chemistry, colloids and liquid crystals. Experimental techniques currently employed in physical chemistry research will also be addressed.

**CHEM 4341 (3CR)**  
**INORGANIC CHEMISTRY: PHYSICAL ASPECTS****Format:** Lecture 3 Hours**Prereq:** CHEM 3321; or permission of the Department**Exclusion:** CHEM 4311

A significant component will involve applications of group theory in inorganic chemistry for molecular bonding, reaction mechanisms, and IR and Raman spectroscopic transformations for small molecules and ions. Interpretation of multinuclear NMR, EPR, IR and Raman spectra will be explored, while the fundamental aspects of X-ray crystallography will also be discussed.

**CHEM/BIOC 4351 (3CR)  
INORGANIC CHEMISTRY: BIOINORGANIC****Format:** Lecture 3 Hours**Prereq:** CHEM 3321; or permission of the Chemistry Department**Note:** This course is cross-listed and may therefore count as three credits in either discipline. Honours Chemistry students should register for CHEM 4351.

This course examines the roles metals play in biochemical systems, and includes an overview of bioinorganic chemistry and a discussion of metals in medicine.

**CHEM 4431 (3CR)  
ANALYTICAL CHEMISTRY: MODERN TOPICS IN  
CHROMATOGRAPHY****Format:** Lecture/Seminar 3 Hours, Practical Exercises And Major Project**Prereq:** CHEM 3421; or permission of the Department

The theory and current practical application of the techniques of GC/MS, LC/MS, and capillary electrophoresis (CE) and CE/MS will be surveyed.

**CHEM 4521 (3CR)  
ENVIRONMENTAL CHEMISTRY****Format:** Lecture 3 Hours, Weekly Tutorials 1.5 Hours**Prereq:** CHEM 2111 or 2101, 2411 or 3411; or permission of the Department**Exclusion:** CHEM 3011

This course investigates the chemical aspects of the environment and draws upon physical, organic, inorganic and analytical chemistry background. It explores the natural chemical compositions and anthropogenic effects on the air, water and soil. Some of the specific topics include ozone chemistry, smog, acid rain, global climate, DOM, metals, colloids, pE/pH, soil chemistry and wastes.

**CHEM 4701 (3CR)  
SELECTED TOPICS IN CHEMISTRY****Format:** Lecture/Seminar 3 Hours, Major Project**Prereq:** Permission of the Instructor

An advanced treatment of a topic not covered by the current course offerings.

**CHEM 4800/4801 (6CR/3CR)  
SPECIAL TOPICS IN CHEMISTRY RESEARCH****Format:** Varied**Prereq:** Permission of the Supervisor

Individual experimental projects designed by the student and the supervisor.

**CHEM 4903 (3CR)  
CURRENT ADVANCES IN CHEMISTRY****Format:** Seminar 3 Hours**Coreq:** Registration in CHEM 4990; or permission of the Department

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.

**CHEM 4990 (6CR)  
HONOURS THESIS****Format:** Independent Study/Thesis**Prereq:** Permission of the Department

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.

**GRADUATE CHEMISTRY COURSES****CHEM 5101 (3CR)  
GRADUATE STUDIES IN CHEMISTRY I****Format:****Prereq:** Registration in the M.Sc. program and permission of the Department**CHEM 5201 (3CR)  
GRADUATE STUDIES IN CHEMISTRY II****Format:****Prereq:** Registration in the M.Sc. program and permission of the Department**CHEM 5301 (3CR)  
GRADUATE STUDIES IN CHEMISTRY III****Format:****Prereq:** Registration in the M.Sc. program and permission of the Department**CHEM 5401 (3CR)  
GRADUATE STUDIES IN CHEMISTRY IV****Format:****Prereq:** Registration in the M.Sc. program and permission of the Department**CHEM 5990 (6CR)  
M.SC. THESIS IN CHEMISTRY****Format:** Independent Study/Thesis

## 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. In an age when undue specialization threatens the student in so many areas of learning, 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.

Further information on courses, facilities, and special activities is available in the Curriculum Handbook issued annually by the Department of Classics.

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 or Program Co-ordinator must be obtained.

#### CLAS/HIST 1631 (3CR)

#### GREECE AND ROME: THE FOUNDATIONS OF WESTERN CIVILIZATION

**Format:** Lecture 3 Hours

**Note:** This course is cross-listed as HIST 1631 and may therefore count as 3 credits in either discipline.

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.

#### CLAS 1641 (3CR)

#### CLASSICAL MYTHOLOGY: THE HERO'S QUEST

**Format:** Lecture 3 Hours

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.

#### CLAS 1651 (3CR)

#### CLASSICAL MYTHOLOGY: GODS, GODDESSES, AND THE CREATION OF ORDER

**Format:** Lecture 3 Hours

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.

**CLAS/HIST 2021 (3CR)**  
**ALEXANDER THE GREAT AND THE HELLENISTIC WORLD**

**Format:** Lecture 3 Hours

**Exclusion:** CLAS/HIST 3011

**Note:** This course is cross-listed as HIST 2021 and may therefore count as 3 credits in either discipline.

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.

**CLAS/HIST 2051 (3CR)**  
**WOMEN IN ANTIQUITY**

**Format:** Lecture 3 Hours

**Note:** This course is cross-listed as HIST 2051 and may therefore count as 3 credits in either discipline.

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.

**CLAS 2501 (3CR)**  
**INTRODUCTION TO ARCHAEOLOGY**

**Format:** Lecture 3 Hours

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.

**CLAS 2521 (3CR)**  
**THE ARCHAEOLOGY OF DAILY LIFE IN THE GREEK AND ROMAN WORLD**

**Format:** Lecture 3 Hours

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.

**CLAS 2531 (3CR)**  
**THE ARCHAEOLOGY OF RELIGION IN THE GREEK AND ROMAN WORLD**

**Format:** Lecture 3 Hours

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.

**CLAS/HIST 3001 (3CR)**  
**DEMOCRACY AND IMPERIALISM IN CLASSICAL GREECE**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 2000 level; or permission of the Department

**Note:** This course is cross-listed as HIST 3001 and may therefore count as 3 credits in either discipline.

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.

**CLAS/HIST 3021 (3CR)**  
**CONQUEST AND EXPANSION: THE RISE AND FALL OF THE ROMAN REPUBLIC**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 2000 level; or permission of the Department

**Note:** This course is cross-listed as HIST 3021 and may therefore count as 3 credits in either discipline.

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.

**CLAS/HIST 3031 (3CR)**  
**THE ROMAN EMPIRE: CENTRE AND PERIPHERY**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 2000 level; or permission of the Department

**Note:** This course is cross-listed as HIST 3031 and may therefore count as 3 credits in either discipline.

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.

**CLAS/HIST 3051 (3CR)**  
**HEALTH AND MEDICINE IN THE ANCIENT WORLD**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics, History, or Philosophy course; or permission of the Department

**Note:** This course is cross-listed as HIST 3051 and may therefore count as 3 credits in either discipline.

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.

### **CLAS 3201 (3CR)** **GREEK TRAGEDY**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 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.

### **CLAS 3211 (3CR)** **GREEK AND ROMAN COMEDY**

**Format:** Lecture 2 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 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.

### **CLAS 3401 (3CR)** **THE LYRIC POETRY OF GREECE AND ROME**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 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.

### **CLAS 3411 (3CR)** **THE EPIC POETRY OF GREECE AND ROME**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics course at the 1000 or 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.

### **CLAS 3501 (3CR)** **ARCHAEOLOGICAL FIELD COURSE**

**Format:** Field Course

**Prereq:** Permission of the Department

**Note:** This course is only available to students through the Department of Continuous Learning during the Spring/Summer term. Enrollment is limited and students should be aware of the additional costs of travel and participation fees.

Through participation in an archaeological field project, students will gain experience in archaeological methods such as site survey, supervised excavation, recording and interpretation of evidence, and the processing and study of finds. The field location will vary according to the project.

### **CLAS 3601 (3CR)** **THE BIRTH OF GREEK ART**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics course at the 1000 or 2000 level or FINA 2001 or 2011; 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.

### **CLAS 3611 (3CR)** **THE SPLENDORS OF CLASSICAL AND HELLENISTIC GREEK ART**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics course at the 1000 or 2000 level or FINA 2001 or 2011; 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.

### **CLAS 3701 (3CR)** **ETRUSCAN AND EARLY ROMAN ART AND ARCHAEOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics course at the 1000 or 2000 level or FINA 2001 or 2011; 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.

### **CLAS 3711 (3CR)** **THE ART OF IMPERIAL ROME AND ITS EMPIRE**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics course at the 1000 or 2000 level or FINA 2001 or 2011; 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.

### **CLAS 4950/4951 (6/3CR)** **SPECIAL PROJECT IN CLASSICAL CIVILIZATION**

**Format:** Independent Study

**Prereq:** Permission of the Department

Directed reading and study of a special topic in classical civilization.

## LATIN COURSES

### LATI 1001 (3CR) INTRODUCTORY LATIN I

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Exclusion:** LATI 1000

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.

### LATI 1101 (3CR) INTRODUCTORY LATIN II

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Prereq:** LATI 1001; or permission of the Department

**Exclusion:** LATI 1000

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.

### LATI 2001 (3CR) INTERMEDIATE LATIN

**Format:** Lecture 3 Hours

**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.

### LATI 2101 (3CR) INTRODUCTORY READINGS IN LATIN LITERATURE

**Format:** Lecture 3 Hours

**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.

### LATI 3001 (3CR) READINGS IN LATIN PROSE

**Format:** Lecture 3 Hours

**Prereq:** LATI 2101; or permission of the Department

The translation and study of the work of one or more Latin prose authors.

### LATI 3101 (3CR) READINGS IN LATIN POETRY

**Format:** Lecture 3 Hours

**Prereq:** LATI 2101; or permission of the Department

The translation and study of the work of one or more Latin poets.

### LATI 4001 (3CR) DIRECTED READINGS IN LATIN

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

Detailed study of one or more Latin authors.

### LATI 4950/4951 (6/3CR) SPECIAL PROJECT IN LATIN

**Format:** Independent Study

**Prereq:** Permission of the Department

Directed readings and study of a special topic in Latin language or literature, or in Roman history.

## GREEK COURSES

### GREK 1001 (3CR) Introductory Ancient Greek I

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Exclusion:** GREK 1000

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.

### GREK 1101 (3CR) Introductory Ancient Greek II

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Prereq:** GREK 1001; or permission of the Department

**Exclusion:** GREK 1000

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.

### GREK 2001 (3CR) INTERMEDIATE GREEK

**Format:** Lecture 3 Hours

**Prereq:** GREK 1000 or 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.

### GREK 2101 (3CR) INTRODUCTORY READINGS IN GREEK LITERATURE

**Format:** Lecture 3 Hours

**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.

### GREK 3001 (3CR) READINGS IN GREEK PROSE

**Format:** Lecture 3 Hours

**Prereq:** GREK 2101; or permission of the Department

The translation and study of the work of one or more Greek prose authors.

**GREK 3101 (3CR)**  
**READINGS IN GREEK POETRY**

**Format:** Lecture 3 Hours

**Prereq:** GREK 2101; or permission of the Department

The translation and study of the work of one or more Greek poets.

**GREK 4001 (3CR)**  
**DIRECTED READINGS IN GREEK**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

Detailed study of one or more Greek authors.

**GREK 4950/4951 (6/3CR)**  
**SPECIAL PROJECT IN GREEK**

**Format:** Independent Study

**Prereq:** Permission of the Department

Directed reading and study of a special topic in Greek language or literature, or in Greek history.

## 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, 3521
- 6 from PSYC 2001 (or MATH 2311), 2011 (or MATH 2321)
- 9 from PHIL 2511, 3511, 4511
- 3 from LING 3001, 3011, PSYC 3221, 3401
- 6 from the following, with at least 3 being at the 3000 level: COMP 3651\*, 3851, 3611\*, COMP/MATH 3531, 2211, PHIL 2611, 3221, 3231, 3631, PHYS 3581, 3361\*

**Note:** \* Indicates courses which have prerequisites that are not listed in the requirements for the Cognitive Science Major.

**Note:** Students pursuing the Interdisciplinary Major in Cognitive Science are reminded that Regulations 7.3.4 and 7.3.5 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 or Program Co-ordinator must be obtained.

## COMMERCE

**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 7.5.

### Disciplinary B.A. Programs

#### MINOR in Commerce is 24 credits earned as follows:

- 9 credits from the following 12 credits: MATH 1111, 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, 4501, 4511 and 4521 may be designated as Economics electives for students taking a Bachelor of Commerce or a Major, Minor or Honours in Economics.
2. ECON 2521, 3201, 3211, 3301, 3601, 3611, 3621, 3711, 3921, 4501, 4511, 4700, 4801, 4811, 4821, 4990 COMP 3851, and RELG 3951, 3961 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 or Program Co-ordinator must be obtained.

### COMM 2101 (3CR) INTRODUCTORY FINANCIAL ACCOUNTING I

**Format:** Lecture/Problem Based Learning 3 Hours

**Prereq:** 9 credits from any combination of the following 12 credits: MATH 1111, ECON 1001, ECON 1011, 3 credits in Computer Science; or permission of the Department

**Exclusion:** COMM 1111

This course introduces the accounting model and analysis of Financial Statements and the important concepts associated with them.

### COMM 2121 (3CR) INTRODUCTORY FINANCIAL ACCOUNTING II

**Format:** Lecture/Problem Based Learning 3 Hours

**Prereq:** COMM 2101; or permission of the Department

**Exclusion:** COMM 1121

This course examines in greater detail the principles, practices and techniques of financial accounting first introduced in Commerce 2101.

### COMM 2131 (3CR) MANAGEMENT ACCOUNTING

**Format:** Lecture/Problem Based Learning/Projects 3 Hours

**Prereq:** COMM 2101; or permission of the Department

**Exclusion:** COMM 2111

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.

### COMM 2201 (3CR) FUNDAMENTALS OF MARKETING

**Format:** Lecture/Case Study 3 Hours

**Prereq:** 9 credits from any combination of the following 12 credits: MATH 1111, ECON 1001, ECON 1011, 3 credits in Computer Science; 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.

### COMM 2211 (3CR) MARKETING MANAGEMENT

**Format:** Case Discussion/Lecture/Projects 3 Hours

**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.

### COMM 2301 (3CR) ORGANIZATIONAL BEHAVIOUR I

**Format:** Case Discussion/Lecture 3 Hours

**Prereq:** 9 credits from any combination of the following 12 credits: MATH 1111, ECON 1001, ECON 1011, 3 credits in Computer Science; 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.

### COMM 2311 (3CR) ORGANIZATIONAL BEHAVIOUR II

**Format:** Case Discussion/Lecture 3 Hours

**Prereq:** COMM 2301; or permission of the Department

**Exclusion:** COMM 3331

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.

### COMM 3111 (3CR) INTERMEDIATE ACCOUNTING I

**Format:** Case Discussion/Lecture/Problem Based Learning 3 Hours

**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.

### COMM 3121 (3CR) INTERMEDIATE ACCOUNTING II

**Format:** Case Discussion/Lecture/Problem Based Learning 3 Hours

**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.

### COMM 3131 (3CR) COST ACCOUNTING

**Format:** Lecture/Problem Based Learning 3 Hours

**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.

### COMM 3151 (3CR) TAXATION

**Format:** Lecture/Problem Based Learning 3 Hours

**Prereq:** COMM 2131; or permission of the Department

**Exclusion:** COMM 4111

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.

### COMM 3161 (3CR) INTRODUCTION TO AUDITING

**Format:** Lecture 3 Hours

**Prereq:** COMM 2121; or permission of the Department

**Exclusion:** COMM 4151

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.

### COMM 3211 (3CR) CONSUMER BEHAVIOUR

**Format:** Lecture/Application 3 Hours

**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.

### COMM 3231 (3CR) MARKETING CHANNELS OF DISTRIBUTION

**Format:** Case Discussion/Lecture/Projects 3 Hours

**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.

### COMM 3251 (3CR) INTERNATIONAL MARKETING

**Format:** Lecture/Case Study 3 Hours

**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.

### COMM 3261 (3CR) INTEGRATED MARKETING COMMUNICATIONS

**Format:** Lecture/Experiential Learning Projects 3 Hours

**Prereq:** COMM 2211; or permission of the Department

**Exclusion:** COMM 4251

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.

### COMM 3271 (3CR) ARTS AND CULTURE MARKETING

**Format:** Lecture 3 Hours

**Prereq:** Normally COMM 2211. However, BFA or BMUS students already doing 3/4000 level work in their own field will be admitted; or permission of the Department

**Exclusion:** COMM 4241 (Winter 2005, Fall 2006)

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.

### COMM 3321 (3CR) HUMAN RESOURCE MANAGEMENT

**Format:** Lecture 3 Hours

**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.

### COMM 3341 (3CR) ORGANIZATIONAL THEORY

**Format:** Case Discussion/Lecture 3 Hours

**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.

### COMM 3351 (3CR) SMALL BUSINESS MANAGEMENT

**Format:** Lecture 3 Hours

**Prereq:** COMM 2131 and 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.

### COMM 3361 (3CR) ENTREPRENEURSHIP AND NEW VENTURE CREATION

**Format:** Lecture 3 Hours

**Prereq:** COMM 2131 and 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.

### COMM 3371 (3CR) ISSUES IN BUSINESS AND SOCIETY

**Format:** Lecture 3 Hours

**Prereq:** COMM 2131 and 2301; or permission of the Department

**Exclusion:** COMM 4371

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.

### COMM 3381 (3CR) GLOBAL CONTEXT OF BUSINESS

**Format:** Lecture 3 Hours

**Prereq:** 3 credits from COMM 2101, 2201, or 2301; or permission of the Department

**Exclusion:** COMM 4801 (Winter 2006); COMM 2321

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.

### COMM 3401 (3CR) RESEARCH METHODS IN BUSINESS

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** MATH 2321 or ECON 2701 or PSYC 2011; or permission of the Department

**Exclusion:** COMM 4231

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.

### COMM 3411 (3CR) MANAGEMENT SCIENCE

**Format:** Lecture 3 Hours

**Prereq:** MATH 1111, 3 credits in Computer Science and MATH 2321 or ECON 2701 or PSYC 2011; or permission of the Department

**Exclusion:** Any version of COMM 3411 previously offered with a different title

**Note:** Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.

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.

### COMM 3421 (3CR) PRODUCTION AND OPERATIONS MANAGEMENT

**Format:** Lecture/Projects 3 Hours

**Prereq:** COMM 2131 and 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.

### COMM 3431 (3CR) MANAGEMENT INFORMATION SYSTEMS

**Format:** Lecture/Projects 3 Hours

**Prereq:** 3 credits in Computer Science and COMM 2131; or permission of the Department

**Exclusion:** COMM 4411

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.

### COMM 3501 (3CR) INTRODUCTION TO FINANCE

**Format:** Lecture 3 Hours

**Prereq:** Comm 2101 and MATH 2321 (or ECON 2701 or PSYC 2011); or permission of the Department

**Note:** Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.

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.

### COMM 3611 (3CR) COMMERCIAL LAW

**Format:** Lecture 3 Hours

**Prereq:** Third or fourth-year standing; or permission of the Department

**Exclusion:** COMM 4611

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.

### COMM 4101 (3CR) ADVANCED ACCOUNTING I

**Format:** Lecture 3 Hours

**Prereq:** COMM 3121; or permission of the Department

**Exclusion:** COMM 4121

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.

### COMM 4131 (3CR) ADVANCED ACCOUNTING II

**Format:** Lecture/Online Project 3 Hours

**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.

### COMM 4141 (3CR) ACCOUNTING THEORY

**Format:** Lecture 3 Hours

**Prereq:** COMM 3111, 3501; or permission of the Department

**Exclusion:** COMM 3141

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.

### COMM 4201 (3CR) MARKETING STRATEGY

**Format:** Discussion/Computer Simulation/Projects 3 Hours

**Prereq:** Fourth-year standing in Commerce Program, plus six credits in the 3200/4200 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.

### COMM 4241 (3CR) CURRENT CHALLENGES IN MARKETING

**Format:** Lecture/Seminar 3 Hours

**Prereq:** Fourth-year standing in Commerce Program, plus six credits in the 3200/4200 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.

### COMM 4301 (3CR) ARTS AND CULTURE MANAGEMENT

**Format:** Lecture 3 Hours

**Prereq:** Third Year Standing and enrolment in the Minor or Major in Commerce or the Bachelor of Commerce degree; 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.

**COMM 4311 (3CR)  
STRATEGIC MANAGEMENT****Format:** Lecture/Seminar 3 Hours**Prereq:** COMM 2201, 2301, and 3501; or permission of the Department**Exclusion:** any version of COMM 4311 previously offered with a different title**Note:** 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.

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 students to the discipline and practice of strategic management and applies the concepts in a diverse range of organizational and industry settings. Students will be encouraged to develop an ability to view the organization as a whole through exploring the interdependencies between organizational functions and the environment.

**COMM 4321 (3CR)  
STRATEGIC ISSUES****Format:** Lecture/Seminar 3 Hours**Prereq:** COMM 4311; or permission of the Department**Exclusion:** any version of COMM 4321 previously offered with a different title

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 CEO compensation, governance, strategy and structure, culture, strategic human resource management, and ethics in strategic management.

**COMM 4331 (3CR)  
MANAGEMENT OF ORGANIZATIONAL CHANGE****Format:** Case Discussion/Lecture 3 Hours**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.

**COMM 4341 (3CR)  
BUSINESS ETHICS****Format:** Lecture 3 Hours**Prereq:** COMM 3501 or COMM 3411, ECON 1001 and 1011; 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.

**COMM 4501 (3CR)  
INVESTMENTS AND PORTFOLIO MANAGEMENT****Format:** Lecture/Field Trip 3 Hours**Prereq:** COMM 3501; or permission of the Department**Note:** Counts as an Economics elective for students taking a Bachelor of Commerce or a Major, Minor or Honours in Economics.

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.

**COMM 4521 (3CR)  
CORPORATE FINANCE****Format:** Lecture 3 Hours**Prereq:** COMM 3501; or permission of the Department**Note:** Counts as an Economics elective for students taking a Bachelor of Commerce or a Major, Minor or Honours in Economics.

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.

**COMM 4531 (3CR)  
VENTURE CAPITAL AND FINANCE OF INNOVATION****Format:** Lecture 3 Hours**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.

### COMM 4800/4801 (6/3CR) SPECIAL TOPICS IN BUSINESS

**Format:** Special Topics

**Prereq:** Permission of the Department

This course is devoted to business topics not covered by the other courses offered. The course content, format and prerequisites will vary depending on the particular area of business to be covered.

### COMM 4950/4951 (6/3CR) INDEPENDENT STUDY

**Format:** Independent Study

**Prereq:** Permission of the Department

This course is offered to students who wish to study in depth a subject introduced in a previous course or a business area which is not currently covered by our present course offerings. It usually involves independent study in a program planned by the student and approved by the Department; however, it is possible that some projects may involve several participants working together in groups.

### COMM 4990 (6CR) HONOURS THESIS

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

This course requires a major paper on a business topic and is carried out in close consultation with a thesis director.

## 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. 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.A. or B.Sc. MINOR in Computer Science is 24 credits earned as follows:

- 15 from COMP 1631, 1731, 2211\*, 2611, 2631
- 6 from Computer Science at the 3/4000 level
- 3 from MATH 1111

#### 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
- 3 from MATH 1121, 1131, 2311
- 12 from CHEM 1001, 1021, PHYS 1051, 1551

### **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 level
- 3 from COMP 3361, 3971
- 15 from COMP 3411, 3611, 3721, 3911, 4721
- 9 from Computer Science or Mathematics at the 3/4000 level
- 12 from CHEM 1001, 1021; PHYS 1051, 1551 (only for B.Sc.)

**Note:** \* COMP 2211 is cross-listed as MATH 2211

### **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 or Program Co-ordinator must be obtained.

#### **COMP 1631 (3CR) INTRODUCTION TO COMPUTER SCIENCE**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** university preparatory level course in Mathematics

**Exclusion:** COMP 1611, COMP 1711, any COMP 2000 level or higher

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.

#### **COMP 1731 (3CR) PROGRAMMING TECHNIQUES AND ALGORITHMS**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** COMP 1631 or COMP 1711; or permission of the Department

**Exclusion:** COMP 1721

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.

#### **COMP 1751 (3CR) INTRODUCTION TO SCIENTIFIC PROGRAMMING**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** MATH 1111; or permission of the Department

An introduction to computer systems and the FORTRAN programming language. Special attention is given to the development and implementation of algorithms for solving computational problems.

#### **COMP/MATH 221 1 (3CR) DISCRETE STRUCTURES**

**Format:** Lecture 3 Hours

**Prereq:** MATH 1111; or permission of the Department

**Exclusion:** MATH 2211 Discrete Mathematics

**Note:** This course is cross-listed as MATH 2211 and may therefore count as three credits in either discipline.

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.

#### **COMP 261 1 (3CR) DATA STRUCTURES AND ALGORITHMS I**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** COMP 1731; or permission of the Department

**Exclusion:** any version of COMP 2611 previously offered with a different title

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.

#### **COMP 2631 (3CR) DATA STRUCTURES AND ALGORITHMS II**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**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.

### COMP 2931 (3CR) INTRODUCTION TO SYSTEMS PROGRAMMING

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** COMP 1731; or permission of the Department

**Exclusion:** COMP 2911

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.

### COMP/PHYS 3361 (3CR) DIGITAL SIGNAL PROCESSING AND ELECTRONICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** COMP 1631 and PHYS 1551; or permission of the Department

**Note:** This course is cross-listed with PHYS 3361 and may therefore count as three credits in either discipline

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.

### COMP/MATH 3411 (3CR) NUMERICAL ANALYSIS

**Format:** Lecture 3 Hours

**Prereq:** MATH 1121, 2221, COMP 1631 or 1731 or 1751; or permission of the Department

**Note:** This course is cross listed as MATH 3411 and may therefore count as three credits in either discipline.

This course is an introduction to numerical methods for solving a variety of problems in mathematics, the natural sciences, and engineering. Topics to be studied include numerical solution of linear and nonlinear systems of equations, Gauss elimination, pivoting strategies, numerical stability, PLU factorization, tridiagonal matrices, polynomial and cubic spline approximation and interpolation.

### COMP/MATH 3511 (3CR) LINEAR PROGRAMMING

**Format:** Lecture 3 Hours

**Prereq:** MATH 2221, 3 credits in Computer Science; or permission of the Department

**Note:** This course is cross listed as MATH 3511 and may therefore count as three credits in either discipline.

Among the topics covered are linear and integer programming, the simplex and revised simplex methods, duality theory and sensitivity analysis, and various applications.

### COMP/MATH 3531 (3CR) SIMULATION AND MODELING

**Format:** Lecture 3 Hours

**Prereq:** MATH 1111; one of MATH 2311, 3311, PSYC 2001 and 2011; 3 credits in Computer Science; or permission of the Department

**Note:** This course is cross listed as MATH 3531 and may therefore count as three credits in either discipline.

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.

### COMP 3611 (3CR) ALGORITHM ANALYSIS

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 2631, COMP/MATH 2211; or permission of the Department

The purpose of this course is to apply analysis and design techniques to nonnumeric algorithms which act on data structures. Designing efficient algorithms for internal and external sorting/merging/searching leads to notions of complexity (e.g. NP-hard problems) and to memory management techniques.

### COMP 3651 (3CR) ARTIFICIAL INTELLIGENCE

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 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.

### COMP 3711 (3CR) PRINCIPLES OF PROGRAMMING LANGUAGES

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 2631, 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.

### COMP 3721 (3CR) OBJECT-ORIENTED DESIGN AND METHODOLOGY

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** COMP 2631; or permission of the Department

**Exclusion:** COMP 2621 (Data and File Structures II), COMP 2711

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.

### COMP 3811 (3CR) DATABASE SYSTEMS

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 2631, 2931, COMP/MATH 2211; or permission of the Department

An introduction to major types of database systems, and experience with at least one database model. The theoretical and practical aspects of the relational model are emphasized, including database query systems and database design.

### COMP 3831 (3CR) COMPUTER GRAPHICS

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 2631, 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.

### COMP 3851 (3CR) COMPUTERS AND SOCIETY

**Format:** Lecture 3 Hours

**Prereq:** 6 credits from the Science division, including 3 credits from Computer Science, and third or fourth-year standing; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### COMP 3911 (3CR) OPERATING SYSTEMS

**Format:** Lecture 3 Hours

**Prereq:** COMP 2931; or permission of the Department

This course includes the major concepts underlying the design of operating systems. Topics include: process management, scheduling, memory management, device management, system programming, security, and network structures.

### COMP 3971 (3CR) COMPUTER ORGANIZATION AND ARCHITECTURE

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 2631, 2931; or permission of the Department

This course provides an introduction to modern computer design and its relation to system architecture and operating system functionality. Topics include: system bus design, memory organization, I/O device access, instruction set design, RISC computers, and parallel organization.

### COMP/MATH 4631 (3CR) THEORY OF COMPUTATION

**Format:** Lecture 3 Hours

**Prereq:** COMP 1721 or 1731, COMP/MATH 2211; or permission of the Department

**Note:** This course is cross listed as MATH 4631 and may therefore count as three credits in either discipline.

This course is an introduction to theoretical aspects of Computer Science such as formal language and automata theory and complexity theory.

### COMP/MATH 4651 (3CR) CRYPTOGRAPHY

**Format:** Lecture 3 Hours

**Prereq:** COMP 1631 or 1711, 1721 or 1731, COMP/MATH 2211; or permission of the Department

**Note:** This course is cross listed as MATH 4651 and may therefore count as three credits in either discipline.

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.

### COMP 4721 (3CR) SOFTWARE DESIGN

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**Prereq:** COMP 2631, 2711 or 3721, 2931, 6 credits in Computer Science at the 3000/4000 level, and third or fourth-year standing; or permission of the Department

This course includes the study of software design topics such as software life cycle, requirements specification, and quality assurance. Software design topics such as strategies, intractable problems, concurrent systems, and data modeling are included. This course will include a large software project.

### COMP 4911 (3CR) COMPUTER NETWORKS

**Format:** Lecture 3 Hours

**Prereq:** COMP 2611 or 2631, 2931, and 3 credits from Computer Science at the 3/4000 level; 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.

### COMP 4951 (3CR) SPECIAL TOPICS IN COMPUTER SCIENCE

**Format:** Lecture 3 Hours

This course enables students to pursue their interests in areas not covered by other classes at the 4000 level. It usually involves independent study in a program planned by the student and approved by the Department.

## 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:

- 18 from DRAM/ENGL 1701; DRAM 2151, 2161, 3001, 3151 and 3161
- 6 from CLAS 3201, 3211; DRAM 4901\*, 4951\*; ENGL 2211, 3211, 3311, 3431, 3551, 3561, 3611, 3621; MUSC 3211; SPAN 3321

**Note:** Drama 4951, 4901 may be taken for credit more than once if the topic differs

#### MAJOR in Drama is 60 credits earned as follows:

##### Drama Core is 24 credits as follows:

- 3 from DRAM/ENGL 1701
- 15 from DRAM 2151, 2161, 3001, 3151, 3161, 4901\*
- 3 from DRAM 4951\*
- 3 from DRAM 4951\* or DRAM 4901\* (in addition to those counted above)

**Note:** DRAM 4951, 4901 may be taken for credit more than once if the topic differs

##### Dramatic Literature

- 21 to 27 from CLAS 3201, 3211; DRAM 4901 (if not counted in the core and if the subject is predominantly literary); 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 3231, 3301, 3311, 4030, 4950/4951; SPAN 3060, 4950/51
- 9 to 15 from complementary courses to be chosen in consultation with the Drama Program Advisor. The following are particularly recommended: ANTH 2231, 4421; CANA 2011; COMM 4301; DRAM 4901 (if not counted above); English credits at the 1000 level, ENGL 3621, 3850, 3871, 3881, 3921; FINA 1901, 1911, 1921, 1931, 2001, 2011; FREN 2601, 2801, 3801; GERM 2701; MUSC 1001, 1011, 1101, 1111, 2001, 2011, 2679, 3301, 3211, 3679, 4679; SOCI 3451; WOST 3001; and from the following courses when their subject is appropriate: ANTH 4901, 4911; CANA 4251, 4600, 4951; ENGL 4901; FREN 4951; GERM 4950/4951; SPAN 4800/4801, 4950/51

**Note:** Students may allow up to 6 credits in English for: DRAM 2151 "Introduction to Acting", DRAM 2161 "Production I", DRAM 3001 "Dramatic Theory", DRAM 3151 "Principles of Directing", and DRAM 3161 "Production II".

## 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 or Program Co-ordinator must be obtained.

### DRAM/ENGL 1701 (3CR) INTRODUCTION TO DRAMA

**Format:** Lecture 3 Hours

**Prereq or Coreq:** ENGL 1201 or enrolment in the Interdisciplinary Major or Minor in Drama; or permission of the Department

**Exclusion:** DRAM/ENGL 2021

**Note:** This course is cross-listed as ENGL 1701 and may be taken as three credits in either discipline.

This course introduces students to conventions, forms, and devices of drama as they emerge under, and respond to, specific theatrical and cultural conditions.

### DRAM 2151 (3CR) INTRODUCTION TO ACTING

**Format:** Lecture/Workshop 3 Hours

**Prereq:** DRAM/ENGL 1701 (or DRAM/ENGL 2021); or permission of the Director of Drama

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.

### DRAM 2161 (3CR) PRODUCTION I

**Format:** Lecture/Workshop 3 Hours

**Prereq:** DRAM/ENGL 1701 (or DRAM/ENGL 2021); or permission of the Director of Drama

Students will 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.

### DRAM 3001 (3CR) DRAMATIC THEORY

**Format:** Lecture 3 Hours

**Prereq:** DRAM/ENGL 1701 (or DRAM/ENGL 2021); or permission of the instructor

**Exclusion:** DRAM 3000

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.

### DRAM 3151 (3CR) PRINCIPLES OF DIRECTING

**Format:** Lecture/Workshop 3 Hours

**Prereq:** DRAM 2151; or permission of the Director of Drama

**Exclusion:** DRAM 3051

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.

### DRAM 3161 (3CR) PRODUCTION II

**Format:** Lecture/Workshop 3 Hours

**Prereq:** DRAM 2161; or permission of the Director of Drama

**Exclusion:** DRAM 3061

This course will explore theatre architecture, set design, costume design, scenic painting, properties, mask-making, and historical research in support of design.

### DRAM 4901 (3CR) SPECIAL TOPICS IN DRAMATIC THEORY AND PRACTICE

**Format:** Seminar 3 Hours

**Prereq:** Permission of the Director of Drama

This course will allow students to pursue a topic of special interest that is not covered in courses in drama and dramatic literature.

### DRAM 4951 (3CR) DIRECTED STUDY IN THEATRICAL INTERPRETATION

**Format:** Independent Study

**Prereq:** permission of the Director of Drama

Individual projects in areas such as acting, directing, writing and design as assigned within the Windsor Theatre's season by the Director of Drama. Practical results will be supported by written and/or visual materials as appropriate.

## 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, 4501, 4511 and 4521 may be designated as Economics electives for students taking a Bachelor of Commerce or a Major, Minor or Honours in Economics.
2. ECON 3201, 3211, 3301, 3601, 3611, 3621, 3711, 3921, 4501, 4511, 4700, 4801, 4811, 4821, 4990, COMP 3851, and RELG 3951, 3961 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 7.5.16.

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

### **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 or Program Co-ordinator must be obtained.

#### **ECON 1001 (3CR) PRINCIPLES OF MICROECONOMICS**

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Prereq:** Students should normally have completed a university preparatory level course in Mathematics

**Exclusion:** ECON 1000

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.

#### **ECON 1011 (3CR) PRINCIPLES OF MACROECONOMICS**

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Exclusion:** ECON 1000

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.

#### **ECON 2001 (3CR) INTERMEDIATE MICROECONOMICS I**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001; or permission of the Department

A course in microeconomic theory and its applications. Topics include: scope and method of microeconomics; market interactions; supply and demand; consumer behaviour; choices under uncertainty; theory of production and cost; profit maximization and competitive supply; and the analysis of competitive markets and effects of government policies.

#### **ECON 2011 (3CR) INTERMEDIATE MICROECONOMICS II**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001; or permission of the Department

Microeconomic theory and its applications continued. Topics include: market power; monopoly and monopsony; pricing with market power; monopolistic competition and oligopoly; game theory and competitive strategy; markets for inputs and income distribution; investment, time and capital markets; general equilibrium and economic efficiency; markets and asymmetric information; and externalities and public goods.

#### **ECON 2101 (3CR) INTERMEDIATE MACROECONOMICS I**

**Format:** Lecture 3 Hours

**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.

#### **ECON 2111 (3CR) INTERMEDIATE MACROECONOMICS II**

**Format:** Lecture 3 Hours

**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.

#### **ECON 2301 (3CR) ISSUES IN CANADIAN PUBLIC POLICY**

**Format:** Lecture 3 Hours

**Prereq:** Six credits from Social Sciences; or permission of the Department

This course is designed to introduce students to analytical methods used by social scientists examining Canadian social and economic policy. Students will be exposed to these analytical methods while studying issues which perennially arise in discussions of Canadian social and economic policy. Specific topics covered will vary from year to year and might include the following: unemployment and government policy; Canada and the global economy; social security reform; regionalism; education policy; health policy; and inflation and public policy.

#### **ECON 2311 (3CR) CURRENT DEBATES IN CANADIAN PUBLIC POLICY**

**Format:** Lecture 3 Hours

**Prereq:** Six credits from Social Sciences; or permission of the Department

This course is a critical study of current debates on economic and social policy in Canada. Specific debates covered will vary from year to year, and will be chosen to ensure no overlap with Economics 2301.

### **ECON 2701 (3CR) STATISTICS FOR BUSINESS AND ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 1011, MATH 2311; or permission of the Department

**Exclusion:** MATH 2321

**Note:** Students may take MATH 3311 and 3321 instead of this course. Honours students are strongly encouraged to do so.

The application of statistical methods to economic data. Topics include: descriptive statistics, hypothesis testing, analysis of variance, simple regression, multiple regression, non-parametric statistics chi-square tests, index numbers, sampling designs, and time series.

### **ECON 3101 (3CR) LAW AND ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 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.

### **ECON 3111 (3CR) HEALTH ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 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.

### **ECON 3201 (3CR) MONEY, BANKING, AND THE CANADIAN FINANCIAL SYSTEM: MICROECONOMIC PERSPECTIVES**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 1011; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### **ECON 3211 (3CR) MONEY, BANKING, AND THE CANADIAN FINANCIAL SYSTEM: MACROECONOMIC PERSPECTIVES**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 1011; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### **ECON/MATH 3301 (3CR) INTRODUCTION TO GAME THEORY**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** ECON 1001 and ECON 1011; or MATH 1111; or permission of the Department

**Note:** This course is cross-listed as MATH 3301 and therefore may count as 3 credits in either discipline

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.

### **ECON 3401 (3CR) SURVEY RESEARCH METHODS**

**Format:** Lecture 3 Hours

**Prereq:** Six credits from Social Sciences; three credits from MATH 2311, PSYC 2011, GENS 2431, BIOL 3701; or permission of the Department

**Exclusion:** ECON 4981 Data Analysis I, II, Data and Research

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.

### **ECON 3501 (3CR) ECONOMIC GROWTH AND TECHNOLOGICAL CHANGE**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 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.

### **ECON 3531 (3CR) ECONOMIC GROWTH AND DEVELOPMENT: JAPAN AND EAST ASIA**

**Format:** Lecture 3 Hours

**Prereq:** 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. Economic history and major current events will be covered.

### **ECON 3551 (3CR) INTERNATIONAL DEVELOPMENT**

**Format:** Lecture 3 Hours

**Prereq:** ECON 3501; or permission of the Department

This course focuses on differences in the patterns of economic development in the world economy. The primary focus is the developing world and on national and international policies designed to improve the global distribution of income. The economic development policies of the World Bank, the International Monetary Fund, and the United Nations will be critically examined.

### **ECON 3601 (3CR) PRINCIPLES OF COST-BENEFIT ANALYSIS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### **ECON 3611 (3CR) INDUSTRIAL ORGANIZATION: THEORY**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001 and ECON 2011; or permission of the Department

**Exclusion:** ECON 3611 (Industrial Organization and Policy in Canada)

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. The course 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.

### **ECON 3621 (3CR) INDUSTRIAL ORGANIZATION: POLICY**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001 and ECON 2011; or permission of the Department

The economics of vertical and horizontal restraints. The course 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.

### **ECON 3711 (3CR) LABOUR MANAGEMENT RELATIONS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 1011; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### **ECON 3721 (3CR) LABOUR ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001 and 2011; or permission of the Department

An introduction to labour economics. Topics covered include: the demand and supply of labour, the Canadian labour market and income distribution, unemployment, poverty, and discrimination in Canada.

### **ECON 3801 (3CR) ENVIRONMENTAL ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 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".

### **ECON 3821 (3CR) NATURAL RESOURCE ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001 and 2011, MATH 1111; or permission of the Department

The application of economic analysis to questions of management, use, and/or conservation of natural resources. Students will be exposed to economic theories used in the study of renewable and non renewable resource industries. Particular attention will be given to resource industries important to the Atlantic Canadian economy (the fishery, forestry, agriculture, mining, and energy).

### **ECON 3901 (3CR) INTERNATIONAL TRADE**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 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.

### **ECON 3921 (3CR)** **INTERNATIONAL FINANCE**

**Format:** Lecture 3 Hours

**Prereq:** ECON 1001 and 1011; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### **ECON 4001 (3CR)** **MODES OF CLASSICAL ECONOMIC THOUGHT**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits from ECON 2001, 2011, 2101 and 2111; or permission of the Department

This course focuses on the work of classical economists (especially Adam Smith, David Ricardo, Thomas Malthus) and the economic theories of Karl Marx.

### **ECON 4011 (3CR)** **MODES OF ECONOMIC THOUGHT**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001, 2011, 2101 and 2111; or permission of the Department

This course examines the historical origins of neo-classical, Austrian and Keynesian economics thought.

### **ECON 4501 (3CR)** **PUBLIC FINANCE: TAXATION AND FISCAL FEDERALISM**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001 and 2011; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

This course examines positive and normative approaches to taxation and fiscal federalism with special emphasis on issues in Canadian Public Finance.

### **ECON 4511 (3CR)** **PUBLIC FINANCE: EXPENDITURES AND DEBT MANAGEMENT**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001, 2011 and 2101; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

This course examines positive and normative approaches to public expenditures and debt management with special emphasis on issues in Canadian Public Finance.

### **ECON 4700 (6CR)** **ECONOMETRICS**

**Format:** Lecture 3 Hours

**Prereq:** MATH 2221, ECON 2701 or MATH 3311 and 3321; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

An introduction to the measurement of economic relationships.

### **ECON 4801 (3CR)** **ADVANCED ECONOMIC THEORY I**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001, 2011, 2101, 2111, MATH 1121; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

The course is primarily concerned with developing tools and techniques for analyzing problems in microeconomics. These include modern theories of the consumer and of the firm, general equilibrium, and the welfare theorems. Honours students who wish to pursue graduate studies in economics are strongly advised to take this course.

### **ECON 4811 (3CR)** **ADVANCED ECONOMIC THEORY II**

**Format:** Lecture 3 Hours

**Prereq:** ECON 4801; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

The course is primarily concerned with developing tools and techniques for analyzing dynamic macroeconomic problems. Topics include growth models, overlapping generation models, and real business cycle models. Honours students who wish to pursue graduate studies in economics are strongly advised to take this course.

### **ECON 4821 (3CR)** **UNCERTAINTY AND STRATEGY IN ECONOMICS**

**Format:** Lecture 3 Hours

**Prereq:** ECON 2001, 2011, 2101, 2111; or permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

### **ECON 4950/4951 (6/3CR)** **DIRECTED READINGS ON SPECIAL TOPICS**

**Format:** Independent Study

**Prereq:** Written permission of the Department

This course permits a senior student, under the direction of a faculty member, to pursue a program of independent study in the form of directed readings or directed research on topics not usually covered in other course offerings or permits a more intensive study of topics covered in regular course offerings.

### **ECON 4980/4981 (6/3CR)** **SPECIAL TOPICS IN ECONOMICS**

**Format:** Independent Study

**Prereq:** Permission of the Department

A senior course which focuses on topic(s) not covered by current course offerings in Economics or topic(s) not covered in depth by the courses offered.

## ECON 4990 (6CR) HONOURS THESIS

**Format:** Independent Study/Thesis

**Prereq:** Written permission of the Department

**Note:** Counts as a Commerce elective for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

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.

## 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 English 1201
- 3 from English 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 English 1201
- 3 from English 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:
  - a) 9 credits from the first four subject areas listed below (Medieval to 18th Century), and
  - 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 must apply to 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 English 2211
- 3 from English 3871 or 3881
- 3 from a 4000-level senior seminar course
- 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)

### HONOURS in English (Thesis Option) is 66 credits earned as follows:

- 42 credits as in the first four lines of the Major, including English 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, 4231 (if appropriate)
  - g) Contemporary and Theoretical Studies: 3561, 3611, 3621, 3850, 3871, 3881, 3911, 3921, 3931, 4231 (if appropriate), 4901 (if appropriate), 4921, 4931, 4941
  - h) American: 3711, 3721, 3731, 3741, 4701, 4231 (if appropriate)
  - i) Canadian: 3801, 3811, 3821, 3831, 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 classes 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 or Program Co-ordinator must be obtained.

### ENGL 1111 (3CR) LITERATURE, THE ARTS AND HUMANITIES

**Format:** Lecture 3 Hours, Tutorials Time Arranged

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.

### ENGL 1121 (3CR) LITERATURE, SCIENCE AND TECHNOLOGY

**Format:** Lecture 3 Hours, Tutorials Time Arranged

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.

### ENGL 1201 (3CR) INTRODUCTION TO PRINCIPLES OF LITERARY ANALYSIS

**Format:** Lecture 3 Hours

**Exclusion:** ENGL 1001

**Note:** Students who wish to pursue courses in English at the 2000 level and above must take ENGL 1201.

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.

### ENGL 1501 (3CR) INTRODUCTION TO POETRY

**Format:** Lecture 3 Hours

**Prereq or Coreq:** ENGL 1201; or permission of the Department

**Exclusion:** ENGL 2011

This course will acquaint students with the materials of the poet's art and survey outstanding achievements in the English tradition of poetry.

### ENGL/DRAM 1701 (3CR) INTRODUCTION TO DRAMA

**Format:** Lecture 3 Hours

**Prereq or Coreq:** ENGL 1201, or enrolment in the Interdisciplinary Major or Minor in Drama; or permission of the Department

**Exclusion:** ENGL/DRAM 2021

**Note:** This course is cross-listed as DRAM 1701 and may be taken as three credits in either discipline.

This course introduces students to conventions, forms, and devices of drama as they emerge under, and respond to, specific theatrical and cultural conditions.

### ENGL 1801 (3CR) INTRODUCTION TO PROSE FICTION

**Format:** Lecture 3 Hours

**Prereq or Coreq:** ENGL 1201; or permission of the Department

**Exclusion:** ENGL 2031 and/or ENGL 2041

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.

## 2000 SERIES

### ENGL 2201 (3CR) LITERARY PERIODS TO 1800

**Format:** Lecture 3 Hours

**Prereq:** ENGL 1001 or 1201 and one of ENGL 1501, 1701, 1801; or permission of the Department

**Exclusion:** ENGL 2001

**Note:** ENGL 2201 is mandatory for the Majors and Honours degrees.

This course presents an intensive survey of English literary history from Anglo-Saxon times to the late eighteenth century. Along with its companion course, English 2301, it is specially designed for students with a strong interest in the discipline of English.

### ENGL 2211 (3CR) INTRODUCTION TO SHAKESPEARE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 1001 or 1201 and one of ENGL 1501, 1701, 1801; or second-year standing in the Interdisciplinary Program in Drama; or permission of the Department

**Exclusion:** ENGL 2311, 2321, 3300

This course introduces students to a wide range of Shakespeare's plays.

### ENGL 2301 (3CR) LITERARY PERIODS, 1800-PRESENT

**Format:** Lecture 3 Hours

**Prereq:** ENGL 1001 or 1201 and one of ENGL 1501, 1701, 1801; or permission of the Department

**Note:** ENGL 2301 is mandatory for the Majors and Honours degrees

This course presents an intensive survey of English literary history from the Romantic period to the present. Along with English 2201, it is specially designed for students with a strong interest in the discipline of English. Students are strongly advised to take English 2201 before enrolling in this course.

### ENGL 2701 (3CR) INTRODUCTION TO AMERICAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 1001 or 1201 and one of English 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.

### ENGL 2801 (3CR) INTRODUCTION TO CANADIAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 1001 or 1201 and one of ENGL 1501, 1701, 1801; or permission of the Department

**Exclusion:** ENGL 2800

This course presents an introductory overview of Canadian literature from its beginnings to the present.

## 3000 SERIES

### ENGL 3011 (3CR) SURVEY OF MEDIEVAL LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 2201 and 3 other credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3011 (Anglo-Saxon and Medieval Literature).

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.

### ENGL 3021 (3CR) MIDDLE-ENGLISH LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 3011; or permission of the Department

**Exclusion:** ENGL 3021 (Later Medieval Literature)

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.

### ENGL 3211 (3CR) ADVANCED STUDIES IN SHAKESPEARE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 2211 or ENGL 3311 and three more English credits at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3300

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.

### ENGL 3231 (3CR) SIXTEENTH CENTURY LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English 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.

### ENGL 3241 (3CR) MAJOR TEXTS IN EARLY ENGLISH LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Note:** Please contact the English Department for the specific subject for each year.

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.

### ENGL 3311 (3CR) ENGLISH DRAMA TO 1642

**Format:** Lecture 3 Hours

**Prereq:** Either ENGL/DRAM 1701 and 3 more English credits at the 2000 level or permission of the Department, or English/Drama 1701 and third-year standing in the Interdisciplinary Drama Program

**Exclusion:** ENGL 3100, 3111, 3121

A study of English dramatic literature and production, excluding Shakespeare, from the Middle Ages to the closing of the theatres in 1642.

### ENGL 3351 (3CR) LITERATURE OF THE EARLY SEVENTEENTH CENTURY

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3350

A study of the poetry and prose of the early seventeenth century, focusing on the work of authors such as Donne, Jonson, and Herbert.

### ENGL 3361 (3CR) LITERATURE AND THE ENGLISH REVOLUTION

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3350

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.

### ENGL 3411 (3CR) RESTORATION AND AUGUSTAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3400

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.

### ENGL 3421 (3CR) LITERATURE IN THE AGE OF ENLIGHTENMENT

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3400

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.

### ENGL 3431 (3CR) RESTORATION AND EIGHTEENTH CENTURY DRAMA

**Format:** Lecture 3 Hours

**Prereq:** Either ENGL/DRAM 1701 and 3 more English credits at the 2000 level or permission of the Department, or English/Drama 1701 and third-year standing in the Interdisciplinary Drama Program

**Exclusion:** ENGL 3430

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.

### ENGL 3451 (3CR) LITERATURE IN THE AGE OF ROMANTICISM

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3451 (Literature in the Age of Revolution)

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.

### ENGL 3461 (3CR) LITERATURE OF THE REGENCY

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3450

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.

### ENGL 3481 (3CR) EARLY VICTORIAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3450

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.

### ENGL 3491 (3CR) LATE VICTORIAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3450

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-Raphaelites, Christina Rossetti, and Wilde.

### ENGL 3511 (3CR) EARLY TWENTIETH-CENTURY BRITISH LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3511 (The Rise of Modernism)

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.

### ENGL 3521 (3CR) LATER TWENTIETH-CENTURY BRITISH LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** ENGL 3511; 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.

### ENGL 3551 (3CR) THE DEVELOPMENT OF MODERN DRAMA

**Format:** Lecture 3 Hours

**Prereq:** Either English/Drama 1701 and 3 more English credits at the 2000 level or permission of the Department or English/ Drama 1701 and third-year standing in the Interdisciplinary Drama Program

**Exclusion:** ENGL 3500

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.

### ENGL 3561 (3CR) CONTEMPORARY DRAMA

**Format:** Lecture 3 Hours

**Prereq:** Either English/Drama 1701 and 3 more English credits at the 2000 level; or permission of the Department or English/ Drama 1701 and third-year standing in the Interdisciplinary Drama Program

**Exclusion:** ENGL 3500

A study of selected contemporary plays and playwrights.

### ENGL 3611 (3CR) DRAMA, THEATRE, AND SOCIETY

**Format:** Lecture 3 Hours

**Prereq:** Either English/Drama 1701 and 3 more English credits at the 2000 level; or permission of the Department or English/ Drama 1701 and third-year standing in the Interdisciplinary Drama Program

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.

**ENGL 3621 (3CR)****READING FILMS**

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**Prereq:** 6 credits of English 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.

**ENGL 3651 (3CR)****LITERATURE BY WOMEN TO THE TWENTIETH CENTURY**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3650

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.

**ENGL 3661 (3CR)****LITERATURE BY WOMEN IN THE TWENTIETH CENTURY**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level or permission of the Department

**Exclusion:** ENGL 3650

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.

**ENGL 3711 (3CR)****AMERICAN LITERATURE FROM THE COLONIAL PERIOD TO THE CIVIL WAR**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3711 (Early American Literature)

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.

**ENGL 3721 (3CR)****AMERICAN LITERATURE FROM THE CIVIL WAR TO THE PRESENT**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3721 (Twentieth Century American Literature)

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.

**ENGL 3731 (3CR)****AFRICAN AMERICAN LITERATURE**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English 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.

**ENGL 3741 (3CR)****ASIAN AMERICAN LITERATURE**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits in English 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.

**ENGL 3751 (3CR)****POST-COLONIAL AFRICAN LITERATURE**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3751 (Literatures of the South Pacific and Africa).

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.

**ENGL 3761 (3CR)****LITERATURES OF AUSTRALIA, NEW ZEALAND AND THE SOUTH PACIFIC**

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3751 (Literatures of the South Pacific and Africa).

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.

### ENGL 3771 (3CR) CARIBBEAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of ENGL at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3761 (Literatures of South East Asia and Caribbean)

This course offers an introduction to the literature of the Caribbean Islands since 1945.

### ENGL 3781 (3CR) THE LITERATURE OF INDIA AND SOUTHEAST ASIA

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English 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.

### ENGL 3801 (3CR) CANADIAN LITERATURE FROM THE BEGINNINGS TO 1914

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3810

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.

### ENGL 3811 (3CR) CANADIAN MODERNISM

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3820

This course will examine the developments in Modernism found in Canadian literature from 1910 to 1950.

### ENGL 3821 (3CR) THE CANADIAN POSTMODERN

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3820

This course will examine the proliferating innovations in the forms and themes of Canadian literature since 1950.

### ENGL 3831 (3CR) ASPECTS OF CANADIAN LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of ENGL at the 2000 level; or permission of the Department

**Exclusion:** ENGL 3810

A study of a selected aspect of Canadian literature.

### ENGL 3850 (6CR) CREATIVE WRITING

**Format:** Seminar/Workshop 3 Hours

**Prereq:** Third and fourth-year standing and permission of the department based on acceptance of a writing portfolio

**Exclusion:** ENGL 3851, 3861

This course will offer 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. Admission to the course is based on acceptance of a portfolio of original creative work. Note that portfolios are due by the end of Reading Week in the winter term previous to the course.

### ENGL 3871 (3CR) CONTEMPORARY LITERARY THEORY I

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English at the 2000 level and minimum third-year standing; or permission of the Department

**Exclusion:** ENGL 3880

This course offers an introduction to various contemporary theories of literature; diverse approaches, such as structuralist, semiotic, post-structuralist and "deconstructive" will be examined.

### ENGL 3881 (3CR) CONTEMPORARY LITERARY THEORY II

**Format:** Lecture 3 Hours

**Prereq:** ENGL 3871; or permission of the Department

**Exclusion:** ENGL 3880

This course will draw upon the literary theories introduced in English 3871 while introducing further theoretical approaches such as psychoanalytic, feminist, and Marxist theories.

### ENGL 3911 (3CR) STUDIES IN LITERARY GENRE

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English 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.

### ENGL 3921 (3CR) CULTURAL STUDIES

**Format:** Lecture 3 Hours

**Prereq:** 6 credits of English 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.

**ENGL 3931 (3CR)  
ASPECTS OF POSTMODERNISM****Format:** Lecture 3 Hours**Prereq:** 6 credits of English 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.

**4000 SERIES**

These courses are designed to give opportunity for special study of a chosen topic within a specific area. They may be devoted to a major author, a group of authors, or thematic or stylistic developments. The topic selected by the Department will be announced in the Spring preceding the year in which it is to be offered.

**Note:** All 4000 level courses may be taken only by permission of the instructor.**ENGL 4221 (3CR)  
SELECTED TOPICS IN PRE-1800 LITERATURE****Format:** Seminar 3 Hours**ENGL 4231 (3CR)  
SELECTED TOPICS IN POST-1800 LITERATURE****Format:** Seminar 3 Hours**ENGL 4701 (3CR)  
SELECTED TOPICS IN AMERICAN LITERATURE****Format:** Seminar 3 Hours**ENGL 4801 (3CR)  
SELECTED TOPICS IN CANADIAN LITERATURE****Format:** Seminar 3 Hours**ENGL 4901 (3CR)  
SPECIAL TOPICS****Format:** Seminar 3 Hours

A seminar course devoted to topics either too broad in scope to be offered in the area-defined selected topics courses or in a special subject not covered by the courses offered.

**ENGL 4921 (3CR)  
SELECTED TOPICS IN SEX, GENDER AND LITERATURE****Format:** Seminar 3 Hours**ENGL 4931 (3CR)  
SELECTED TOPICS IN TEXT AND TECHNOLOGY****Format:** Seminar 3 Hours**ENGL 4941 (3CR)  
SELECTED TOPICS IN LITERARY REPRESENTATIONS OF RACE,  
CULTURE AND NATION****Format:** Seminar 3 Hours**ENGL 4951 (3CR)  
INDEPENDENT STUDY****Format:** Independent Study

Supervised by Members of the Department, this course offers independent research and study in which students pursue a planned program of their choice approved by the Department and supervised by a member of the department. To be accepted for the Independent Study, students must have achieved an overall English average of B.

**ENGL 4990 (6CR)  
HONOURS THESIS****Format:** Independent Study/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.

## 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 Gairdner Fine 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 7.7 of the Calendar. Studio courses are offered in the following areas: Drawing, Painting, Photography, Printmaking, Sculpture and Open Media.

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. 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 April 1, to be considered for a Major or Minor in Fine Arts. The B.F.A. programs are outlined as follows:

### Disciplinary B.A. Programs

#### MINOR in Fine Arts is 24 credits earned as follows:

- 6 from Fine Arts 2001 and 2011; 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, (Fine Arts 2001 and 2011 must be included)
- 9 from Fine Arts 1101, 1111, 2101
- 6 from Fine Arts 1921 and 1931 or Fine Arts 1901 and 1911
- 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 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.

### 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 (3CR) FUNDAMENTALS OF DRAWING I

**Format:** Studio

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.

### FINA 1111 (3CR) FUNDAMENTALS OF DRAWING II

**Format:** Studio

**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.

### FINA 1901 (3CR) ELEMENTS OF ART I

**Format:** Studio

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.

### FINA 1911 (3CR) ELEMENTS OF ART II

**Format:** Studio

**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.

### FINA 1921 (3CR) INTRODUCTION TO MEDIA I

**Format:** Studio

This course is designed to introduce the studio areas of printmaking and photography. It is required of all B.F.A. students.

### FINA 1931 (3CR) INTRODUCTION TO MEDIA II

**Format:** Studio

This course is designed to introduce the studio areas of painting and sculpture. It is required of all B.F.A. students.

### FINA 2101 (3CR) DRAWING I

**Format:** Studio

**Prereq:** FINA 1101 and 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.

### FINA 2111 (3CR) DRAWING II

**Format:** Studio

**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.

### FINA 2201 (3CR) PRINTMAKING I

**Format:** Studio

**Prereq:** FINA 1921; or permission of the Department

This course introduces intaglio and relief printmaking techniques.

### FINA 2211 (3CR) PRINTMAKING II

**Format:** Studio

**Prereq:** FINA 1921; or permission of the Department

This course introduces lithography printmaking techniques.

### FINA 2301 (3CR) PAINTING I

**Format:** Studio

**Prereq:** FINA 1931; or permission of the Department

This course uses traditional media to focus on the fundamentals of basic painting. Colour and techniques will be explored. It emphasizes observational painting, from various subjects including the figure.

### FINA 2311 (3CR) PAINTING II

**Format:** Studio

**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.

### **FINA 2401 (3CR) SCULPTURE I**

**Format:** Studio

**Prereq:** FINA 1931; or permission of the Department

This course addresses the human figure through a variety of media, including wire, wood, mesh, scavenged or natural materials and clay.

### **FINA 2411 (3CR) SCULPTURE II**

**Format:** Studio

**Prereq:** FINA 2401; or permission of the Department

This course is a continuation of FINA 2401 and as such emphasizes the human figure and its senses, as well as more formal geometric structure in an experimental approach to sculpture. This course investigates how the shape and form of a structure is imposed by the materials used.

### **FINA 2501 (3CR) PHOTOGRAPHY I**

**Format:** Studio

**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.

### **FINA 2511 (3CR) PHOTOGRAPHY II**

**Format:** Studio

**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.

### **FINA 3101 (3CR) INTERMEDIATE DRAWING I**

**Format:** Studio

**Prereq:** FINA 2101 and 2111; or permission of the Department

Through completing a variety of projects, students will develop their skills with traditional and non-traditional drawing media, and gain a deeper understanding of the issues and potentials of drawing. Students will explore approaches to representation and abstraction, and work toward developing personal imagery. This course is required of all students in the B.F.A. program.

### **FINA 3111 (3CR) INTERMEDIATE DRAWING II**

**Format:** Studio

**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.

### **FINA 3201 (3CR) INTERMEDIATE PRINTMAKING I**

**Format:** Studio

**Prereq:** FINA 2201 and 2211; or permission of the Department

### **FINA 3211 (3CR) INTERMEDIATE PRINTMAKING II**

**Format:** Studio

**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.

### **FINA 3301 (3CR) INTERMEDIATE PAINTING I**

**Format:** Studio

**Prereq:** FINA 2301 and 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.

### **FINA 3311 (3CR) INTERMEDIATE PAINTING II**

**Format:** Studio

**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.

### **FINA 3401 (3CR) INTERMEDIATE SCULPTURE I**

**Format:** Studio

**Prereq:** FINA 2401 and 2411; or permission of the Department

This course emphasizes contemporary attitudes, theory, and non-traditional approaches to sculpture. A mixed media approach, kinetic sculpture, and outdoor or environmental art will be addressed.

### **FINA 3411 (3CR) INTERMEDIATE SCULPTURE II**

**Format:** Studio

**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.

### **FINA 3501 (3CR)** **INTERMEDIATE PHOTOGRAPHY I - THE VIEW CAMERA**

**Format:** Studio

**Prereq:** FINA 2501 and 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.

### **FINA 3511 (3CR)** **INTERMEDIATE PHOTOGRAPHY II - COLOUR AND PHOTOFABRICATION**

**Format:** Studio

**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.

### **FINA 3601 (3CR)** **INTERMEDIATE OPEN MEDIA I**

**Format:** Studio

**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

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.

### **FINA 3611 (3CR)** **INTERMEDIATE OPEN MEDIA II**

**Format:** Studio

**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

### **FINA 3701 (3CR)** **THIRD YEAR SEMINAR IN FINE ARTS**

**Format:** Seminar

**Prereq:** 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

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.

### **FINA 4701 (3CR)** **ADVANCED SEMINAR IN FINE ARTS**

**Format:** Seminar

**Prereq:** 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

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.

### **FINA 4801/4811/4821/4831 (3CR)** **ADVANCED STUDIO I TO IV**

**Format:** Studio

Students will take all of these tutorial courses in their final year. Courses are arranged with faculty members on an individual basis. Students in fourth year must have more than one tutor. The courses are designed to meet students needs and may be in a single medium or in various media.

## **ART HISTORY COURSES**

### **FINA 2001 (3CR)** **WORLD ART FROM THE FIRST PEOPLES TO THE END OF THE MIDDLE AGES**

**Format:** Lecture 3 Hours

This course surveys art and architecture from the Americas, Africa, Asia, and Europe within their historical and cultural context. The course will emphasize how works of art are produced in a variety of media. This introductory course is designed for students with no previous background in the history of art and architecture.

### **FINA 2011 (3CR)** **WORLD ART FROM THE RENAISSANCE TO THE PRESENT**

**Format:** Lecture 3 Hours

This course surveys art and architecture from the Americas, Africa, Asia, and Europe within their historical and cultural context. The course will emphasize how works of art are produced in a variety of media.

### **FINA 3021 (3CR)** **CANADIAN ART FROM ITS BEGINNINGS TO THE 1960S**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; or permission of the Department

A survey of the history of Canadian art from its beginnings in the 17th century to the 1960's. The emphasis will be on painting, including the Canadian landscape and the Group of Seven; the Atlantic Realist School; modernism in Canadian art; and the development of abstraction in Ontario, Quebec and the West.

### **FINA 3031 (3CR)** **CANADIAN ART FROM THE 1960S TO THE PRESENT**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; or permission of the Department

An examination of Canadian art from the late 1960's to contemporary practice, including painting, sculpture, mixed media, installation, video and performance. The course will take advantage of the Visiting Artist's Program and local exhibitions of contemporary art.

**FINA 3051 (3CR)**  
**TWENTIETH CENTURY ART TO 1940**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; 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.

**FINA 3061 (3CR)**  
**MODERN ART FROM 1940 TO 1970**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; 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.

**FINA 3071 (3CR)**  
**CONTEMPORARY ART SINCE 1970**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; 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.

**FINA 3081 (3CR)**  
**WOMEN, ART AND SOCIETY**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; or permission of the Department

This course offers a history of women in art and society, from examples from the Early 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.

**FINA 3141 (3CR)**  
**NINETEENTH CENTURY ART, PART ONE**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; 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.

**FINA 3241 (3CR)**  
**NINETEENTH CENTURY ART, PART TWO**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011; 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.

**FINA 4041 (3CR)**  
**ART CRITICISM AND THEORY**

**Format:** Lecture 3 Hours

**Prereq:** FINA 2001 and 2011 plus two further courses in Art History at the 3/4000 level; or permission of the Department

**Exclusion:** FINA 4041-Principles of Art Criticism I, FINA 4051

A study of art criticism and theory within a selected time frame with emphasis on the writings of critics, artists and philosophers.

**FINA 4091 (3CR)**  
**ADVANCED SEMINAR IN ART HISTORY**

**Format:** Seminar 3 Hours

**Prereq:** FINA 2001 and 2011 plus two further courses in Art History at the 3/4000 level; or permission of the Department

This course is a research seminar on key issues in nineteenth and twentieth century art, with topics to vary from term to term. Emphasis will be placed on contemporary, theoretical, methodological and critical approaches to the art of the recent past.

**FINA 4950/4951 (6/3CR)**  
**SPECIAL TOPICS IN ART**

**Format:** Independent Study

Directed reading and study of a well-defined subject in art which would result in a major research paper or major written paper. Study will be carried out on a tutorial basis. The course will be adjudicated by a committee consisting of the tutor and one other faculty member either from within or outside the Fine Arts Department.

**OTHER ART HISTORY COURSES**

The following courses also count as Art History offerings:

**CLAS 3601 (3CR)  
THE BIRTH OF GREEK ART**

**Format:** Lecture 3 Hours

**CLAS 3611 (3CR)  
THE SPLENDOURS OF CLASSICAL AND HELLENISTIC GREEK  
ART**

**Format:** Lecture 3 Hours

**CLAS 3701 (3CR)  
ETRUSCAN AND EARLY ROMAN ART AND ARCHAEOLOGY**

**Format:** Lecture 3 Hours

**CLAS 3711 (3CR)  
THE ART OF IMPERIAL ROME AND ITS EMPIRE**

**Format:** Lecture 3 Hours

**ENGL 3621 (3CR)  
READING FILMS**

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**FREN 2801 (3CR)  
LE CINÉMA DU MONDE FRANCOPHONE**

**Format:** Lecture 3 Hours

**GERM 2701 (3CR)  
THE NEW GERMAN FILM: HISTORY, THEORY AND PRACTICE**

**Format:** Lecture 3 Hours, Film Screening 2.5 Hours

**HIST 4001 (3CR)  
HISTORY THROUGH FILM**

**Format:** Seminar 3 Hours

**PHIL 2401 (3CR)  
INTRODUCTORY AESTHETICS**

**Format:** Lecture 3 Hours

**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. Common to all streams in the first year there are the core courses GENV 1201 and GENS 1401.

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 speciality.

### 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 7.2.17. 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 GENV 1201, GENS 1401
- 6 from BIOL 1001, 1501
- 6 from CHEM 1001, 1021
- 6 from PHYS 1051, 1551 or 3521
- 6 from MATH 1111, Math 1121 or COMP 1631
- 3 from BIOL 3701, MATH 2311, GENS 2431
- 6 from Biology, Chemistry, Mathematics, or Physics at the 2000 level\*
- 24 from complementary science courses at the 3000/4000 level chosen in consultation with the Program Advisor\*

**Note:** \* Many 3000/4000 level courses will have one to several prerequisite courses.

**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 ECON 3821, GENV 3101\*, 3201, 3531\*, 4101\*, 4111\*, 4201\*, 4211\*, PHIL 3721\*, RELG 3981\*, ANTH 3541\*, 4531\*

#### MAJOR in Environmental Studies is 72 credits earned as follows:

- 24 from BIOL 1001, CHEM 1001 or PHYS 1051 or PHYS 2401, ECON 1001 and 1011, GENS 1401, GENV 1201, 2001, SOCI 1001 or ANTH 1011
- 30 from ECON 3801, GENV 2101, 2221, 3101, 3201, 4101, 4111, 4201, PHIL 1651 or 2701 or 3511, PHIL 3721, RELG 3981\*, ANTH 1011 or SOCI 1001, ANTH 2501

Note: At least 18 of the 30 credits must be from courses at the 3/4000 level.

- 6 from GENS 2431 or MATH 2311, GENV 3701
- 6 from BIOL 1211, 1501, 2101, 3501\*, 3911, CHEM 1501, 2511\*, GENS 2411, 2421, 3411, 3421, 3451, PHYS 3751\*
- 6 from COMM 3371\*, ECON 2001, 3601, 3821, GENV 3531, 4211, 4521, 4951, PHIL 1651, 3511, ANTH 2521, 3031, 3541, 3621, 4531

Note: At least 3 of the 6 credits must be from courses at the 3/4000 level.

#### HONOURS in Environmental Studies is 78 credits earned as follows:

- 72 credits as in the Major, plus:
- 6 from GENV 4990

**Note:** \* indicates courses which have prerequisites that are not listed in the requirements. Students who have completed any one of the former Environmental Studies course listings will have credits applied to their Geography and Environment program.

## 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:**

- 9 from GENS 1401, 2411, 2421
- 9 from GENV 1201, 2101, 2201, 2221, 2311
- 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, GENV 4711
- 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 or Program Co-ordinator must be obtained.

### GENV 1201 (3CR) THE HUMAN ENVIRONMENT

**Format:** Lecture 3 Hours

**Exclusion:** GEOG 1201

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.

### GENS 1401 (3CR) THE PHYSICAL ENVIRONMENT

**Format:** Lecture 3 Hours, Laboratory 1.5 Hours

**Exclusion:** GEOG 1401

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.

### GENV 2001 (3CR) CONTEMPORARY ENVIRONMENTAL STUDIES

**Format:** Lecture 3 Hours

**Exclusion:** ENST 1001

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.

### GENV 2101 (3CR) NATURAL RESOURCES MANAGEMENT

**Format:** Lecture 3 Hours

**Exclusion:** GEOG 2101

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.

### GENV 2201 (3CR) GEOGRAPHY OF ECONOMIC ACTIVITY

**Format:** Lecture 3 Hours

**Exclusion:** GEOG 2201

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.

### GENV 2221 (3CR) THE DEVELOPING WORLD

**Format:** Lecture 3 Hours

**Exclusion:** GEOG 2221

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.

### GENV 2311 (3CR) INTRODUCTION TO CULTURAL GEOGRAPHY

**Format:** Lecture 3 Hours

**Exclusion:** GEOG 2311

This course surveys the main themes and approaches of cultural geographers. It evaluates concepts such as cultural area, ecology and landscape in the context of North American and European settlement patterns.

### GENS 2411 (3CR) GEOMORPHOLOGY

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** GENS 1401; or permission of the Department

**Exclusion:** GEOS 2401; GEOG 2411

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.

### GENS 2421 (3CR) WEATHER AND CLIMATE

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** GENS 1401; or permission of the Department

**Exclusion:** GEOG 2421

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.

### GENS 2431 (3CR) DATA ANALYSIS

**Format:** Lecture/Laboratory 3 Hours

**Prereq:** Either GENV 1201 or GENS 1401; or permission of the Department

**Exclusion:** GEOG 2711

**Note:** Students may count for credit towards a degree a maximum of 6 credits from BIOL 2701, GENS 2431, MATH 2311, and PSYC 2001

This course develops basic skills in data collection, analysis, and presentation. It introduces basic statistical and hypothesis testing procedures, along with relevant software.

### GENS 2441 (3CR) GEOGRAPHIC INFORMATION SYSTEMS

**Format:** Lecture/Laboratory 3 Hours

**Prereq:** Second-year standing and GENS 2431 or Math 2311; or permission of the Department

**Exclusion:** GEOG 2721, 3711

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.

### GENV 3101 (3CR) ENVIRONMENT AND DEVELOPMENT

**Format:** Lecture 3 Hours

**Prereq:** GENV 2001 or 2101; and 2221; or permission of the Department

**Exclusion:** GEOG 3101

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.

### GENV 3201 (3CR) CANADIAN ENVIRONMENTAL POLICY

**Format:** Lecture 3 Hours

**Prereq:** GENV 2001, GENV 2221 or ECON 1001; or permission of the Department

**Exclusion:** GEOG 3201

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 parliamentary 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.).

### GENV 3211 (3CR) TRANSPORTATION GEOGRAPHY

**Format:** Lecture 3 Hours

**Prereq:** GENV 1201, 2201; or permission of the Department

**Exclusion:** GEOG 3211

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.

### **GENV 3301 (3CR) HISTORICAL GEOGRAPHY OF NORTH AMERICA**

**Format:** Lecture 3 Hours

**Prereq:** Third-year standing and either GENV 1201 or 3 credits from the HIST 1600 series; GENV 2311; or permission of the Department

**Exclusion:** GEOG 3301

This course surveys the role of pre-twentieth century historical processes in shaping past and present North American landscapes. Students identify and analyze significant writings in the evolution of historical geography.

### **GENV 3321 (3CR) GEOGRAPHY OF JAPAN**

**Format:** Lecture 3 Hours

**Prereq:** Third-year standing, and at least one of GENV 1201, 2311, HIST 1611; or permission of the Department

**Exclusion:** GEOG 3321

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.

### **GENS 3401 (3CR) RESEARCH METHODS IN ENVIRONMENTAL SCIENCE**

**Format:** Lecture 3 Hours, Multi-Day Field Camp

**Prereq:** GENS 2431 and third-year standing; permission of the Department

**Exclusion:** GEOG 3401, 3701; GENV 3701

**Note:** This course requires attendance at an off-campus field camp and students will be liable for some field trip costs.

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.

### **GENS 3411 (3CR) COASTAL GEOMORPHOLOGY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** GENS 2431, 2411; or permission of the Department

**Exclusion:** GEOG 3411; GEOS 3111

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.

### **GENS/BIOL 3421 (3CR) BIOGEOGRAPHY**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** GENS 2431, 2421; or permission of the Department

**Exclusion:** GEOG 3421

**Note:** This course is cross-listed with BIOL 3421 and may therefore count as three credits in either discipline.

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.

### **GENS 3451 (3CR) EARTH SYSTEM SCIENCE**

**Format:** Lecture 3 Hours, Laboratory And Seminars 3 Hours

**Prereq:** GENS 1401, 6 credits from BIOL 1001, CHEM 1001, PHYS 1051; or permission of the Department

**Exclusion:** ENVS 3001

This course integrates atmospheric, oceanographic, geological and biological concepts with a historical perspective to introduce the student to 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.

### **GENV 3511 (3CR) RURAL AND SMALL TOWN CANADA**

**Format:** Lecture 3 Hours

**Prereq:** GENV 1201; one of GENV 2101, 2201, 2311; or permission of the Department

**Exclusion:** GEOG 3511

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.

### **GENV 3531 (3CR) THE PLANNING PROCESS**

**Format:** Lecture 3 Hours

**Prereq:** GENV 1201 and one of GENV 2101, 2201, 2311; or permission of the Department

**Exclusion:** GEOG 3531

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.

### **GENV 3701 (3CR) RESEARCH METHODS IN HUMAN GEOGRAPHY AND ENVIRONMENT**

**Format:** Lecture 3 Hours, Multi-Day Field Camp

**Prereq:** GENS 2431 and third-year standing; permission of the Department

**Exclusion:** GEOG 3701

**Note:** This course requires attendance at an off-campus field camp and students must cover some field trip costs.

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.

### **GENV 3811 (3CR)** **GEOGRAPHY OF URBANIZATION**

**Format:** Lecture 3 Hours

**Prereq:** Third-year standing plus GENV 1201 and 2311; or permission of the Department

**Exclusion:** GEOG 3811

This course investigates the evolution of the modern city through historic phases of mercantile, industrial, corporate, and post-industrial growth. It highlights urbanization processes in the development of urban economies, urban society, the social geography of cities, political reform, urban planning, and the creation of new urban forms in the late twentieth century post-industrial economy.

### **GENV 4101 (3CR)** **SEMINAR IN ENVIRONMENTAL ISSUES**

**Format:** Seminar 3 Hours

**Prereq:** GENV 1201, 2001; GENS 1401; or permission of the Department

**Exclusion:** GEOG 4101

This course examines the current state of scientific knowledge related to various contemporary environmental issues and the public policy implications of these issues.

### **GENV 4111 (3CR)** **INTERNATIONAL ENVIRONMENTAL AFFAIRS**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** GENV 3201 or GEOG 3201; or permission of the Department.

**Exclusion:** GEOG 4101

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.

### **GENV 4201 (3CR)** **CANADIAN ENVIRONMENTAL PLANNING AND MANAGEMENT**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** GENV 3201 or GEOG 3201; or permission of the Department

**Exclusion:** GEOG 4101

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.

### **GENV 4211 (3CR)** **RESOURCE COMMUNITIES AND THE MULTINATIONAL CORPORATION**

**Format:** Seminar 3 Hours

**Prereq:** GEOG 2101 and 2201, or GENV 2101 and 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.

### **GENV 4301 (3CR)** **SEMINAR IN AREA STUDIES**

**Format:** Seminar 3 Hours

**Prereq:** Any two of GENV 2201, 2311, 3201, 3211 or 3301; or permission of the Department

**Exclusion:** GEOG 4301

This course studies a selected world region through a combination of directed readings, seminar presentations, and individual research.

### **GENV 4311 (3CR)** **SEMINAR IN CANADIAN REGIONALISM**

**Format:** Seminar 3 Hours

**Prereq:** GENV 3201 or 3301; or permission of the Department

**Exclusion:** GEOG 4311

This course explores Canadian regionalism through a combination of directed readings, presentations, and individual research.

### **GENV 4321 (3CR)** **SEMINAR IN CULTURAL AND LANDSCAPE STUDY**

**Format:** Seminar 3 Hours

**Prereq:** GENV 2311 and 3301 or 3811; or permission of the Department

**Exclusion:** GEOG 4321

This course explores contemporary cultural geography and cultural landscape study through directed readings, presentations and individual research.

### **GENS 4421 (3CR)** **SEMINAR IN ENVIRONMENTAL SCIENCE**

**Format:** Seminar 3 Hours

**Prereq:** This course is restricted to students in their final year of a Major or Honours in Environmental Science.

**Exclusion:** ENVS 4901

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.

**GENV 4521 (3CR)**  
**SEMINAR IN COMMUNITY PLANNING RESEARCH**

**Format:** Seminar 3 Hours

**Prereq:** GENS 2431 and GENV 3531; or permission of the Department

**Exclusion:** GEOG 4521

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.

**GENS/GENV 4701 (3CR)**  
**ADVANCED FIELD COURSE**

**Format:** Field Course

**Prereq:** GENV 3701 or GENS 3401; or permission of the Department

**Exclusion:** GEOG 4701

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.

**GENV 4711 (3CR)**  
**PERSPECTIVES ON MAPPING AND G.I.S.**

**Format:** Lecture/Laboratory 3 Hours

**Prereq:** GENS 2441 and third-year standing; or permission of the Department

**Exclusion:** GEOG 4711

This course investigates how cartography has been used to codify space, place and territory over the past millennium. The course considers agency and motive in historical and contemporary cartography, including G.I.S., paying particular attention to a critique of scientific method and the mapping of modernity. It also examines alternative map spaces and other media and, using a combination of directed readings and practical project work, students develop critical perspectives on our use of various forms of cartographic representation.

**GENV 4811 (3CR)**  
**GENDER, CULTURE AND THE CITY**

**Format:** Lecture 3 Hours

**Prereq:** GENV 3811; or permission of the Department

**Exclusion:** GEOG 4811

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.

**GENV 4821 (3CR)**  
**SEMINAR IN URBAN ISSUES**

**Format:** Seminar 3 Hours

**Prereq:** GENV 3811 and any two of GENV 2201, 2311, or 3211; permission of the Department

**Exclusion:** GEOG 4821

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.

**GENS/GENV 4950/4951 (6/3CR)**  
**SPECIAL TOPICS IN GEOGRAPHY AND ENVIRONMENT**

**Format:** Independent Study

**Prereq:** Permission of the Department. Students must obtain, in the preceding year, consent of an instructor who is willing to be a supervisor.

This course provides an opportunity for intensive reading and empirical analysis of topics not usually covered in basic course offerings.

**GENS/GENV 4990 (6CR)**  
**HONOURS THESIS**

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

This course comprises independent research and study under the direction of a supervisor approved by the department.

## GERMAN STUDIES

See Modern Languages and Literatures

## GREEK

See Classical Studies

## HISPANIC STUDIES

See Modern Languages and Literatures

## HISTORY

As both a literary art and social science, History is an ideal instrument of liberal education. Defined as "the rational study of the significant past", it develops analytical and communication skills, fosters knowledge and understanding of the institutions, ideas, groups and individuals which have shaped our political, social and cultural world and contributes to reflective, articulate citizenship in a free, tolerant and humane society. History is also an excellent preparation for a large number of career choices as well as a pleasurable intellectual pursuit that will last a lifetime.

Without attempting to study all the people and places of the significant past, 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 and European history and are complemented when staffing permits by introductions to China and Japan. Together, they reflect a wide range of faculty interest - from politics, constitutional development and relations between nations to social, cultural and intellectual movements.

### 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 7.2 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 credits each chosen from two of the following subject areas:
  1. European History 2001, 2011, 2021 or 2031
  2. North American History 2411, 2421, 2511, 2521
  3. Asia Pacific History 2700
- 24 additional credits in History at the 2/3/4000 level
- 18 credits from complementary courses in other departments, chosen in consultation with the Program Advisor. Six of these credits must be for language courses in a single language other than English. Normally students will take six credits from the following courses offered by the Department of Modern Languages and

Literatures or the Classics Department: FREN 1701, 1711, or GERM 1001 and GERM 1011, or JAPA 1001 and JAPA 1011, or SPAN 1101 and SPAN 1111, or GREK 1001, 1101 or LATI 1001, 1101. (Students may substitute other language courses dependent on placement by the Department of Modern Languages and Literatures or the Classics Department or another language taken by transfer approved by the History Department).

### HONOURS in History is 72 credits earned as follows:

- 42 credits from the first three lines of the major, plus:
- 6 credits for language courses in a single language other than English. Normally students will take six credits from the following courses offered by the Department of Modern Languages and Literatures or the Classics Department: FREN 1701, 1711, or GERM 1001 and GERM 1011, or JAPA 1001 and JAPA 1011, or SPAN 1101 and SPAN 1111, or GREK 1001, 1101 or LATI 1001, 1101. (Students may substitute other language courses dependent on placement by the Department of Modern Languages and Literatures or the Classics Department or another language taken by transfer approved by the History Department).
- 6 from HIST 4990
- 18 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 or Program Co-ordinator must be obtained.

### HIST 1601 (3CR)

#### NEW NATIONS IN NORTH AMERICA

**Format:** Lecture 3 Hours

This course will examine the transfer of European ideas, institutions, political and economic structures to North America, and consider the reshaping of these by the North American experience. Particular emphasis will be placed on the transition from the colonial experience to the realization of new states.

### HIST 1611 (3CR)

#### THE EXPANSION OF EUROPE ABROAD

**Format:** Lecture 3 Hours

This course will focus on the expansion of Europe after the 15th century and the impact of that expansion on both Native peoples and on European civilization. Themes to be considered are 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.

### HIST 1621 (3CR)

#### CANADIAN SOCIAL HISTORY: HOME, WORK, AND PLAY

**Format:** Lecture/Tutorial 3 Hours

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 workplace, as well as public sites of leisure and recreation, and the semi-public spaces of commerce and institutions.

### HIST/CLAS 1631 (3CR)

#### GREECE AND ROME: THE FOUNDATIONS OF WESTERN CIVILIZATION

**Format:** Lecture 3 Hours

**Note:** This course is cross-listed as CLAS 1631 and may therefore count as 3 credits in either discipline.

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.

### HIST 1641 (3CR)

#### TOWN LIFE IN THE MIDDLE AGES

**Format:** Lecture 3 Hours

This course treats the development of town life in Europe from the late tenth century through the fifteenth century. Themes will include: social and political experimentation and organization, expansion of commerce and production, religious observance and intellectual life, and female experience of town life.

### HIST 1651 (3CR)

#### NATIVE AMERICAN HISTORY

**Format:** Lecture 3 Hours

**Exclusion:** Any version of HIST 1651 previously offered with a different title

This course will focus on the experience of Native Americans as they come to terms with living in the post-Colombian world. Emphasis will be given to Native American voices as preserved in primary materials.

### HIST 1661 (3CR)

#### FRANCE IN THE AGE OF REVOLUTION

**Format:** Lecture/Tutorial 3 Hours

**Exclusion:** HIST 3371

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.

### HIST 1671 (3CR)

#### HISTORICAL PERSPECTIVES ON WOMEN AND GENDER IN MODERN EUROPE

**Format:** Lecture/Tutorial 3 Hours

**Exclusion:** HIST 3361

This course surveys women's lives in modern Europe from the Enlightenment until the twentieth century creation of the European Union.

**HIST 2001 (3CR)**  
**WESTERN EUROPE FROM LATE ANTIQUITY TO THE MID-THIRTEEN CENTURY**

**Format:** Lecture 3 Hours

**Exclusion:** Any version of HIST 2000

This course surveys the history of western civilization from c.300 to c.1250. 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.

**HIST 2011 (3CR)**  
**WESTERN EUROPE FROM THE MID-THIRTEENTH TO THE MID-SEVENTEENTH CENTURY**

**Format:** Lecture 3 Hours

**Prereq:** HIST 2001; or permission of the Department

**Exclusion:** Any version of HIST 2000

This course continues HIST 2001, surveying with the same objectives the history of the peoples of western Eurasia during the late middle ages, Renaissance, and Reformation. As with HIST 2001 particular attention is paid to the close reading and interpretation of contemporary documents.

**HIST/CLAS 2021 (3CR)**  
**ALEXANDER THE GREAT AND THE HELLENISTIC WORLD**

**Format:** Lecture 3 Hours

**Exclusion:** HIST/CLAS 3011

**Note:** This course is cross-listed as CLAS 2021 and may therefore count as 3 credits in either discipline.

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.

**HIST 2031 (3CR)**  
**THE HISTORY OF EARLY MODERN EUROPE, 1500-1800**

**Format:** Lecture 3 Hours

**Exclusion:** HIST 2010, HIST 2500

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 covered 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.

**HIST 2041 (3CR)**  
**EUROPE IN THE NINETEENTH CENTURY**

**Format:** Lecture/Tutorial 3 Hours

**Prereq:** HIST 2031; or permission of the Department

**Exclusion:** HIST 2010, HIST 2500

This course provides a comprehensive survey of the 'long nineteenth century' from 1789 to 1914. Themes to be considered 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.

**HIST/CLAS 2051 (3CR)**  
**WOMEN IN ANTIQUITY**

**Format:** Lecture 3 Hours

**Note:** This course is cross-listed as CLAS 2051 and may therefore count as 3 credits in either discipline.

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.

**HIST 2411 (3CR)**  
**CANADA TO 1871**

**Format:** Lecture 3 Hours

**Exclusion:** HIST 2400, 3100, 3250

This course introduces students to the political, socio-economic, and cultural history of Canada from the pre-European period to the first federal census.

**HIST 2421 (3CR)**  
**CANADA AFTER 1871**

**Format:** Lecture 3 Hours

**Prereq:** HIST 2411; or permission of the Department

**Exclusion:** HIST 2410, 3100, 3250

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.

**HIST 2511 (3CR)**  
**THE AMERICAN EXPERIENCE TO 1865**

**Format:** Lecture 3 Hours

**Exclusion:** HIST 2510, 3650

This course introduces students to the main events, themes and issues of American history from the colonial period through the Civil War.

**HIST 2521 (3CR)**  
**THE AMERICAN EXPERIENCE AFTER 1865**

**Format:** Lecture 3 Hours

**Prereq:** HIST 2511; or permission of the Department

**Exclusion:** HIST 2510, 3650

This course introduces students to the main events, themes and issues of American history from the Civil War to the present.

### HIST 2700 (6CR) MODERN ASIA PACIFIC HISTORY

**Format:** Lecture 3 Hours

This course will focus on the ways in which the countries of the Asia Pacific Region have interacted with each other through the 20th century, and how they have struggled to understand and adapt to a rapidly changing modern world.

### HIST/CLAS 3001 (3CR) DEMOCRACY AND IMPERIALISM IN CLASSICAL GREECE

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 2000 level; or permission of the Department

**Note:** This course is cross-listed as CLAS 3001 and may therefore count for three credits in either discipline.

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.

### HIST/CLAS 3021 (3CR) CONQUEST AND EXPANSION: THE RISE AND FALL OF THE ROMAN REPUBLIC

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 2000 level; or permission of the Department

**Note:** This course is cross-listed as CLAS 3021 and may therefore count for three credits in either discipline.

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.

### HIST/CLAS 3031 (3CR) THE ROMAN EMPIRE: CENTRE AND PERIPHERY

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics or History course at the 1000 or 2000 level; or permission of the Department

**Note:** This course is cross-listed as CLAS 3031 and may therefore count for three credits in either discipline.

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.

### HIST/CLAS 3051 (3CR) HEALTH AND MEDICINE IN THE ANCIENT WORLD

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and three credits from any Classics, History, or Philosophy course; or permission of the Department

**Note:** This course is cross-listed as CLAS 3051 and may therefore count as 3 credits in either discipline.

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.

### HIST 3121 (3CR) RENAISSANCE EUROPE

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least 6 credits from History at the 1/2000 level; or permission of the Department

**Exclusion:** HIST 3110

Set against the political, social and economic history of Europe from the mid-thirteenth through the early sixteenth centuries, this course treats the remarkable cultural flowering that began in the wealthy, politically and socially volatile city-states of northern Italy before spreading to the courts, print-shops, monasteries, and schools of northern Europe.

### HIST 3131 (3CR) REFORMATION EUROPE

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least 6 credits from History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3131 (Reformation, Revolution and Absolutism)

This course surveys the history of Europe during the religious upheavals of the late fifteenth, sixteenth, and early seventeenth centuries, investigating the major Protestant, Catholic, and radical reform movements as they were shaped by the actions and ideas of their leading promoters and adherents, as well as by the ecclesiastical, economic, intellectual, political, and social circumstances of the era.

### HIST 3141 (3CR) EARLY MEDIÆVAL EUROPE

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3050, HIST 3141 (Celtic and Germanic Europe to the Age of Charlemagne)

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. Particular attention will be devoted to the establishment of Germanic 'successor' kingdoms, the development of the papacy, missionary activities to Christianize pagan peoples, and the reigns of Charlemagne and his descendants.

### HIST 3151 (3CR) EUROPE IN THE HIGH MIDDLE AGES

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3050, HIST 3151 (Europe in the Age of Chivalry)

This course treats the history of Europe from the tenth through the mid-fourteenth centuries. Themes will 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.

### HIST 3161 (3CR) THE CRUSADES

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

This course treats the European crusading movement from the eleventh through the fifteenth centuries, examining not only the familiar expeditions to Palestine but also the use of crusades to sanction conquest and colonization along medieval European frontiers in Spain and northeastern Europe and to combat religious and political challenges to papal authority.

### HIST 3211 (3CR) REVOLUTION AND STABILITY: POLITICS AND SOCIETY IN EARLY MODERN BRITAIN 1603 - 1820

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3400

This course explores the ideological and socio-economic roots of the seventeenth century constitutional struggles which 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.

### HIST 3221 (3CR) MODERN BRITAIN

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

This course traces the development of those institutions, movements and ideas which are an integral part of the texture of modern Britain, and which have been shaping influences on the direction and pace of social, intellectual, economic and political growth.

### HIST 3231 (3CR) PAX BRITANNICA: BRITAIN'S GLOBAL HEGEMONY 1815-1918

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

This course examines Britain's rise to world power during the 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.

### HIST 3241 (3CR) IMPERIAL SUNSET: BRITAIN'S RETREAT FROM WORLD POWER 1918 TO THE PRESENT

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; 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 to be examined 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.

### HIST 3251 (3CR) CLASS AND CAPITALISM: THE TRANSFORMATION OF THE BRITISH SOCIAL STRUCTURE 1750-1850

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3400

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. Particular attention is paid to the controversies among historians surrounding the nature of social transformation in Britain.

### HIST 3301 (3CR) EUROPE IN THE TWENTIETH CENTURY, 1900-1945

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3390

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.

### HIST 3311 (3CR) EUROPE SINCE 1945

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3390

This course examines the major political, social, cultural and economic developments in Europe from the post-war era of reconstruction to the present.

**HIST 3321 (3CR)  
WAR AND SOCIETY IN EUROPE FROM THE LATE MIDDLE  
AGES TO NAPOLEON (1400-1815)****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department**Exclusion:** HIST 3600, 3380

This course examines the interrelationship between war and society from the late medieval period until the Congress of Vienna, which ended the Napoleonic Wars. The topics of discussion 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.

**HIST 3331 (3CR)  
WAR AND SOCIETY IN EUROPE FROM NAPOLEON TO  
NUREMBERG (1815-1945)****Format:** Lecture 3 Hours**Prereq:** HIST 3321; or permission of the Department**Exclusion:** HIST 3600, 3380

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 to be discussed 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.

**HIST 3361 (3CR)  
CULTURE AND SOCIETY IN MODERN EUROPE****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department**Exclusion:** HIST 3360

This course examines major themes and issues in Continental European social and cultural history from the seventeenth century to the present. Selection, emphases and time frame may vary from year to year but may include such topics as: identity formation; class and gender; community and nation; family, work and leisure; myth and memory; popular and high culture; the emergence of mass consumer society.

**HIST 3381 (3CR)  
FASCISM IN EUROPE 1870-1945****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; 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 1870 to 1945.

**HIST 3401 (3CR)  
THE ATLANTIC REGION****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department**Exclusion:** HIST 3420, 3451, any version of HIST 3401 previously offered with a different title

This course surveys the political, socio-economic, cultural, and environmental history of Canada's Atlantic region from the eighteenth century to the 1990s.

**HIST 3411 (3CR)  
NEW FRANCE****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department**Exclusion:** Any version of HIST 3411 previously offered with a different title.

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.

**HIST 3421 (3CR)  
CANADA FROM CONQUEST TO CONFEDERATION****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department**Exclusion:** HIST 3100

This course examines the socio-economic, intellectual and political-constitutional development of Lower Canada, Upper Canada and the Canadian West from 1760 to the achievement of Confederation in 1867.

**HIST 3431 (3CR)  
QUEBEC FROM CONFEDERATION TO THE SOVEREIGNTY  
MOVEMENT****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department**Exclusion:** any version of HIST 3431 previously offered with a different title

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.

**HIST 3441 (3CR)  
MODERN CANADA****Format:** Lecture 3 Hours**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

This course traces the development of those institutions, movements and ideas which are an integral part of the texture of modern Canada and which have been shaping influences on the direction and pace of social, intellectual, economic and political growth.

### **HIST 3471 (3CR) CANADIAN WOMEN IN HISTORICAL PERSPECTIVE**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

Drawing upon both historical and theoretical perspectives, this course examines the diverse experiences, conditions and roles of women in Canada from Pre-confederation to present.

### **HIST/RELG 3481 (3CR) RELIGION IN CANADA**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

**Note:** This course is cross-listed as RELG 3481 and may therefore count as 3 credits in either discipline.

This course surveys the history of religion in Canada from the pre-European period to the 1980s. It focuses on religious traditions which 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.

### **HIST 3511 (3CR) COLONIAL AMERICA**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3550

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, but with attention to the wider context of the Atlantic world.

### **HIST 3521 (3CR) THE AMERICAN SOCIAL AND CULTURAL EXPERIENCE**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 3520

This course explores American social and cultural development. Themes may include immigration, slavery, race relations, abolitionism, the roots of modern American feminism, assimilation and the emergence of a common American culture.

### **HIST 3531 (3CR) AMERICAN WOMEN'S HISTORY**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

This course will explore 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.

### **HIST 3561 (3CR) UNITED STATES FOREIGN RELATIONS**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST/POLS 3560

This course surveys American diplomacy and foreign relations from colonial times through the twentieth century. Throughout, attention is paid to American domestic policies and the role of public opinion in determining foreign policy.

### **HIST/RELG 3611 (3CR) CHRISTIANITY IN THE ROMAN EMPIRE**

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801 or 2821 or 3601 or third or fourth year History Major; or permission of the Department

**Exclusion:** HIST/RELG 3601

**Note:** This course is cross-listed as RELG 3611 and may therefore count as three credits in either discipline.

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) and the Roman Empire. Early Christianity is analyzed as a social movement, as a religious movement with a developing belief system, and as an historical phenomenon embedded within historical events and processes.

### **HIST/RELG 3621 (3CR) CHRISTIANITY IN CHRISTENDOM**

**Format:** Lecture 3 Hours

**Prereq:** RELG 3601 or 3611 or third or fourth year History Major; or permission of the Department

**Exclusion:** HIST/RELG 3620

**Note:** This course is cross-listed as RELG 3621 and may therefore count as three credits in either discipline.

A consideration of Christianity at the height of its political power in the middle ages.

### **HIST/RELG 3631 (3CR) CHRISTIANITY IN THE REFORMATION ERA**

**Format:** Lecture 3 Hours

**Prereq:** RELG 3601 or 3611 or 3621 or third or fourth year History Major; or permission of the Department

**Note:** This course is cross-listed as RELG 3631 and may therefore count as three credits in either discipline.

A consideration of the reasons for and impact of the divisions in Christianity instituted by the Protestant Reformation.

### **HIST/RELG 3641 (3CR) CHRISTIANITY AND MODERN STATES**

**Format:** Lecture 3 Hours

**Prereq:** RELG 3601 or 3611 or 3621 or third or fourth year History Major; or permission of the Department

**Exclusion:** HIST/RELG 3641 (The Modern Church)

**Note:** This course is cross-listed as RELG 3641 and may therefore count as three credits in either discipline.

A consideration of how secularization has occurred in various modern states and of the sphere of influence that remains for religion in these circumstances.

### HIST 3710 (6CR) CHINA SINCE 1949

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department or as for RELG 3641

This course will deal with the contemporary history of China, focusing on six topics: the role of ideology; foreign policy goals and practicalities; intellectuals and student activists; religion, the rural-urban continuum; and economic changes since 1949.

### HIST/POLS 3731 (3CR) JAPAN IN THE MODERN WORLD

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST/POLS 3321

**Note:** This course is cross-listed as POLS 3731 and may therefore count as three credits in either discipline.

This course will examine Japan's relations with the international community in the years following renewed contact with the West in the 1860's. Particular emphasis will be placed on the expanding intellectual, diplomatic and economic interchange and the impact of that interchange on the shaping of modern Japan.

### HIST 3741 (3CR) CLASSICAL AND EARLY MODERN CHINA

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 2711

This course examines the major social, cultural, economic and intellectual trends of dynastic China from Tang to early Qing (700-1800). Attention will also be given to the "Middle Kingdom" world view and China's position in global trade and diplomatic networks prior to European expansion.

### HIST 3751 (3CR) CHINA IN THE MODERN WORLD

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST 2721

This course traces the contested process of nation building in China from the mid-18th century to the present day. Particular attention will be given to the manner in which the Chinese people have interacted with Euro-American and Japanese foreigners and the role these relations played in driving the revolutionary struggles to transform China in the last 150 years.

### HIST 4001 (3CR) HISTORY THROUGH FILM

**Format:** Seminar 3 Hours

**Prereq:** Permission of the instructor (normally third-year standing, and at least 12 credits in History at the 2/3000 level are required)

This course is a thematic study of topics in modern history through the medium of film, both feature and documentary. These films will be critically read both as an art form and as historical documents. While specific course content will vary according to the instructor, particular emphasis will be placed on what films tell us about the particular historical context in which they are created.

### HIST 4110 (6CR) ADVANCED TOPICS IN MEDIAEVAL HISTORY

**Format:** Seminar 3 Hours

**Prereq:** Third-year standing, three credits from either HIST 3141 or 3151, and at least three credits from HIST 3121, 3131, 3161, 3621, 3631; or permission of the Department

This course is a seminar in Mediaeval History

### HIST 4221 (3CR) ADVANCED TOPICS IN RENAISSANCE HISTORY

**Format:** Seminar 3 Hours

**Prereq:** Third-year standing, HIST 3121, and at least six credits from HIST 3131, 3141, 3151, 3161, 3621, 3631; or permission of the Department

**Exclusion:** HIST 4220

This course is a seminar in Renaissance history.

### HIST 4231 (3CR) ADVANCED TOPICS IN REFORMATION HISTORY

**Format:** Seminar 3 Hours

**Prereq:** Third-year standing, HIST 3131, and at least six credits from HIST 3121, 3141, 3151, 3161, 3621, 3631; or permission of the Department

**Exclusion:** HIST 4220

This course is a seminar in Reformation history.

### HIST 4250 (6CR) BRITAIN AND EUROPE IN THE TWENTIETH CENTURY

**Format:** Seminar 3 Hours

**Prereq:** Third-year standing and at least six credits from among HIST 3211, 3221, 3231, 3241, 3251, POLS 3400; or permission of the Department

**Exclusion:** HIST 4600

Seminar in twentieth century British and European history.

### HIST 4260 (6CR) THE LIBERAL IDEA IN WESTERN HISTORY

**Format:** Seminar 3 Hours

**Prereq:** Third-year standing and at least six credits from among HIST 3110, 3210, 3211, 3221, 3251, 3361, 3371, 3381, POLS 3001, 3011; or permission of the Department

This senior seminar analyses the development of Western liberalism, the controversies it has created and the changes it has undergone during several historical periods.

**HIST 4300 (6CR)****THE BIRTH OF THE MODERN AGE****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among 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 will vary from year to year.

**HIST 4401 (3CR)****CANADA AND THE PACIFIC RIM****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among HIST 3441, 3461, 3710, 3731, 3741, 3751, GENV 3321; or permission of the Department

This senior seminar explores the relationship between Canada and the countries and peoples of the Pacific Rim.

**HIST 4420 (6CR)****THE ATLANTIC PROVINCES****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among HIST 2411, 2421, 3401, 3411, 3431, 3441, 3511; or permission of the Department**Exclusion:** HIST 4100

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.

**HIST 4440 (6CR)****ADVANCED TOPICS IN MODERN CANADA****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among HIST 2411, 2421, 3441, CANA 3301, 3400; or permission of the Department

This course is a seminar in nineteenth and twentieth-century Canada, focussing on a particular topic or theme.

**HIST 4450 (6CR)****CANADIAN COURTS AND THE CONSTITUTION****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among HIST 3401, 3431, 3441, 3451 POLS 2101, 3111; or permission of the Department

This senior seminar examines the Canadian courts and the private and public factors that are taken into consideration in the determination of constitutional change and legal rights and responsibilities.

**HIST 4461 (3CR)****ADVANCED SEMINAR ON MODERN CANADIAN WOMEN'S HISTORY****Format:** Seminar 3 Hours**Prereq:** Third-year standing with at least six credits from any History or Canadian Studies 3000 level courses; or permission of the Department**Exclusion:** HIST 4951 Canadian Women's History

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.

**HIST 4500 (6CR)****ADVANCED SEMINAR IN SELECTED TOPICS IN MODERN AMERICAN HISTORY****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among HIST 2510, 3511, 3521; or permission of the Department**Exclusion:** HIST 4800

A seminar in selected topics in modern American history.

**HIST 4510 (6CR)****THE AMERICAN WEST****Format:** Seminar 3 Hours**Prereq:** Third-year standing and at least six credits from among HIST 2510, 3501, 3511, 3521, 3531 and 3561

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.

**HIST 4571 (3CR)****HISTORY OF THE MODERN AMERICAN WOMEN'S MOVEMENT****Format:** Seminar 3 Hours**Prereq:** Third-year standing and three credits from HIST 3531; or permission of the Department

This course will focus 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 will be given to the revolutionary character of that movement and the experience of American women as influenced by the movement.

**HIST 4700 (6CR)****ADVANCED SEMINAR IN ASIA PACIFIC HISTORY****Format:** Seminar 3 Hours**Prereq:** Third-year standing and six credits from HIST 3710, 3731, 3741, 3751; or permission of the Department

This course examines the development of Chinese and Japanese societies from the 19th through the 20th centuries. It will focus on the emergent national and individual consciousness in the two countries, and the rapidly changing political context in which they were constructed.

**HIST 4950/4951 (6/3CR)  
SPECIAL TOPICS - DIRECTED STUDY****Format:** Independent Study**Prereq:** Permission of instructor and Department required**HIST 4990 (6CR)  
HONOURS THESIS****Format:** Independent Study/Thesis

Independent research and study under direction of a member of the department; for students in History Honours program.

**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 MATH 1111, COMM 2201
- 12 from Economics 3501, 3531, 3551, 3901, 3921, 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 or Program Co-ordinator must be obtained.

## INTERNATIONAL RELATIONS

The study of International Relations has traditionally focussed on the competition for power among rival states. Today, however, non-state and intergovernmental actors, such as non-governmental organizations, multinational corporations, transnational diasporas, and organizations like the United Nations also exert important influence in international affairs. The multiple dimensions of power go beyond the distribution of economic and military capabilities and include class, gender, culture, and discourse. The "international" in International Relations is moreover inseparable from domestic concerns and is as much about cooperation and compromise among international actors as it is about competition and conflict. The International Relations program provides students with a multidisciplinary foundation for understanding the complexities of today's international affairs.

### Interdisciplinary B.A. Program

#### MAJOR in International Relations is 72 credits as follows:

##### Core (51 credits as follows):

- 6 from POLS 1001 and INLR/POLS 2301
  - 3 from Political Science
  - 6 from INLR 3001, 3101, 3201, 3301, 3401, 4101, 4301, 4701
  - 6 from HIST 1601, 1611, 1631, 2001, 2011, 2031, 2041, 2411, 2421, 2511, 2521, 2700
  - 9 ECON 1001, 1011, 3501
  - 12 from FREN 1651, 1701, 1711, 2401, 2501, 2601, 3101, 3111  
or from GERM 1001, 1011, 2001, 2011, 3001, 3401, 3501  
or from SPAN 1101, 1111, 2101, 2111, 3101, 3111  
or from JAPA 1001, 1011, 2001, 2011
- Note: Students may substitute another language approved by the International Relations Program Advisor.
- 6 from GENV 1201, 2001, 2201, 2221, 2311
  - 3 from an Intercultural area at the 1000 or 2000 level including ANTH 1011, 2521; ENGL 1111, 1121, 1201; FREN 2841 or 2851; SPAN 1801, 1811; RELG 2401, 2801; SOCI 1001; WOST 2001

##### Interdisciplinary electives at the 3/4000 level:

- 21 from 3/4000 level courses chosen in consultation with the International Relations Program Advisor from the following courses, of which a maximum 12 credits can be taken from any one discipline:
  - ANTH 3831\*, 3841\*, 3861\*, 3871\*
  - CANA 3421
  - COMM 3251\*
  - ECON 3301, 3531, 3551, 3901, 3921
  - ENGL 3751\*, 3761\*, 3771\*, 3781\*, 3921\*
  - FREN 3841\*
  - GENV 3101\*, 3301\*, 3321\*, 4101\*, 4111\*, 4211\*, 4301\*
  - HIST 3001\*, 3021\*, 3031\*, 3121\*, 3131, 3141, 3151, 3161, 3211, 3221, 3231, 3241, 3301, 3311, 3321, 3331, 3361, 3381, 3441, 3511, 3521, 3561, 3710, 3731, 3741, 3751, 4110\*, 4221\*, 4231\*, 4250\*, 4260\*, 4300\*, 4401\*, 4440, 4500\*, 4550\*, 4700\*
  - INLR 3101, 3201, 3301, 3401, 4101, 4301, 4701, 4950, 4951
  - POLS 3021\*, 3200, 3310, 3701, 3731, 4200, 4211, 4300, 4550

RELG 3001\*, 3101\*, 3301\*, 3311\*, 3501\*, 3601\*, 3641\*, 3701\*, 3891\*, 3941\*, 4401\*, 4411\*, 4421\*, 4821\*  
SOCI 3121\*, 3221\*, 3431\*, 3501\*, 3511\*, 4521\*, 4511\*  
SPAN 3060

**Note:** Not all these courses may be available in any given year. Also, a student may choose to include up to six credits at the 3/4000 not explicitly included in the Interdisciplinary electives at the 3/4000 level list provided a written rationale is submitted to the International Relations Program Advisor before the substitute courses are taken and provided the substitutions are approved by the Program Advisor.

**Note:** \* Courses marked with an asterisk require additional prerequisites.

#### HONOURS in International Relations is 84 credits as follows:

- 72 credits as in the Major, plus
- 6 from 4000 level Anthropology, Economics, English, Geography and Environment, History, International Relations, Political Science, Religious Studies, or Sociology, chosen in consultation with the International Relations Program Advisor
- 6 from INLR 4101, 4301, 4950/1, 4701, 4990

## 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 or Program Co-ordinator must be obtained.

### INLR/POLS 2301 (3CR)

#### TOPICS IN INTERNATIONAL RELATIONS

**Format:** Lecture 3 Hours

**Prereq:** POLS 1001 or POLS 1000; or permission of the Department

**Note:** This course is cross-listed as POLS 2301 and may count as 3 credits in either discipline.

This course is a study of the major issues and themes in international relations, including the nature of war and the conditions of peace.

### INLR 3001 (3CR)

#### GENDER AND INTERNATIONAL RELATIONS

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** INLR/POLS 2301; or permission of the instructor

This course sensitizes students to 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.

### **INLR 3101 (3CR)** **GLOBAL GOVERNANCE**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** INLR/POLS 2301; or permission of the instructor

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.

### **INLR 3201 (3CR)** **PROBLEMS IN INTERNATIONAL DEVELOPMENT**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** INLR/POLS 2301, or permission of the instructor

This course focuses on leading issues in international development from an international relations perspective. The themes covered may vary from year to year.

### **INLR 3301 (3CR)** **LATIN AMERICAN POLITICS AND SOCIETY**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** INLR/POLS 2301; or permission of the instructor

This course provides students with a critical, interdisciplinary introduction to the study of the social, political, economic, and cultural problems of Latin America and the Caribbean. It begins with an overview of the region's history and the contending paradigms used to analyze its development. The course then turns to a series of case studies of enduring developmental problems in the region.

### **INLR 3401 (3CR)** **INTERNATIONAL POLITICAL ECONOMY**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** INLR/POLS 2301; or permission of the instructor

This course is a survey of 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 state and society. The course examines the impact of globalization and environmental change on states in the global order.

### **INLR 4101 (3CR)** **GLOBAL GOVERNANCE SIMULATION**

**Format:** Lecture/Simulation 3 Hours

**Prereq:** INLR/POLS 2301, INLR 3101; enrolment is restricted to Honours students or by permission of the instructor

This course engages students in an innovative and intensive semester-long simulation of an international conflict or crisis in order to highlight the challenges of international decision-making in multilateral forums. Case studies are drawn from the United Nations, other international organizations, or disputes among states and non-state actors.

### **INLR 4301 (3CR)** **THE INTER-AMERICAN SYSTEM**

**Format:** Seminar 3 Hours

**Prereq:** INLR/POLS 2301, INLR 3301; or permission of the instructor

This interdisciplinary seminar focuses on contemporary problems in the Inter-American System. It looks at the intersection of international diplomacy and the internal social, political, and economic dynamics of the countries that make up the Americas. As a continuation of INLR 3301, it examines the inter-actions of governments, non-state actors, and intergovernmental actors like the Organization of American States.

### **INLR 4701 (3CR)** **SPECIAL TOPICS IN INTERNATIONAL RELATIONS**

**Format:** Seminar 3 Hours

**Prereq:** INLR/POLS 2301, restricted to Honours students in International Relations; or by permission of the instructor

This seminar is open to upper-level students and addresses an advanced topic of current importance in International Relations. Topics may vary from year to year.

### **INLR 4950/4951 (6CR/3CR)** **DIRECTED READING IN INTERNATIONAL RELATIONS**

**Format:** Independent Study

**Prereq:** Permission of the Program Co-ordinator

These courses enable an advanced student to pursue a special field of study in International Relations.

### **INLR 4990 (6CR)** **HONOURS THESIS**

**Format:** Independent Study/Thesis

**Prereq:** 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.

This course comprises independent research and study under the direction of a supervisor approved by the Program Advisor.

## 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, 4131
- 3 from MATH 3011, 3211, 3221, 3231
- 3 from MATH 3151, 3311, 3411, 3511
- 15 from Mathematics at the 3/4000 level
- 6 from COMP 1631, 1731

12 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  
 6 from COMP 1631, 1731  
 24 from MATH 3011, 3111, 3121, 3211, 3311, 3321, 4131, 4221  
 3 from MATH 3411  
 15 from Mathematics at the 3/4000 levels  
 6 from Mathematics or Computer Science at the 3/4000 levels

**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  
 12 from CHEM 1001, 1021; PHYS 1051, 1551 (only for B.Sc.)

**Note:** \* COMP 2211 is cross-listed as MATH 2211

**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, 4131  
 3 from MATH 3011, 3211, 3221, 3231  
 3 from MATH 3151, 3311, 3411, 3511  
 15 from Mathematics at the 3/4000 level  
 6 from COMP 1631, 1731  
 6 from CHEM 1001, 1021  
 6 PHYS 1051, 1551

**B.Sc. HONOURS in Mathematics is 84 credits earned as follows:**

18 from MATH 1111, 1121, 2111, 2121, 2211, 2221  
 6 from COMP 1631, 1731  
 27 from MATH 3011, 3111, 3121, 3211, 3311, 3321, 3411, 4131, 4221  
 15 from Mathematics at the 3/4000 level  
 6 from Mathematics or Computer Science at the 3/4000 level  
 6 from CHEM 1001, 1021  
 6 from PHYS 1051, 1551

**Interdisciplinary B.Sc. Program**

**B.Sc. HONOURS in Mathematics and Physics is 90 credits earned as follows:**

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, 4131  
 6 from MATH 3121, 3131, 3221, 3151, 3231, 3321, 3411, 3431, 3531, 4111, 4151, 4211  
 18 from PHYS 3101, 3201, 3701, 3811, 3821, 4411  
 3 from Physics at the 4000 level  
 6 from PHYS 4990

**PLACEMENT IN MATHEMATICS**

Students wishing to take the introductory calculus course (Mathematics 1111) are required to write a *Mathematics Placement Test* to determine their level of mathematical preparation. Based on their test scores and the University regulations, students will be placed in Mathematics 1011 or Mathematics 1111. The *Mathematics Placement Test* will be administered prior to the beginning of classes. Students will be allowed to re-write the test during the first week of classes.

**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 or Program Co-ordinator must be obtained.

**MATH 1011 (3CR)**

**SETS, FUNCTIONS AND RELATIONS**

**Format:** Lecture 3 Hours, Laboratory 1.5 Hours

This course will focus on the real number system, inequalities, plane analytic geometry (lines and conics), functions, inverse functions, polynomials, rational functions, trigonometric functions, exponential and logarithmic functions. Fundamental methods of graphing functions, using non-calculus based techniques, will be emphasized. This course is primarily intended for non-science students or as a prerequisite for MATH 1111 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. This course cannot be used to satisfy the Bachelor of Science degree requirement of a course in MATH/COMP (7.3.3). Credit will not be given for this course if credit has already been granted for MATH 1111.

**MATH 1111 (3CR)**

**INTRODUCTION TO CALCULUS I**

**Format:** Lecture 3 Hours, Laboratory 1.5 Hours

**Prereq:** A passing score on the Mathematics Placement Test, or MATH 1011; or permission of the Department. Students enrolling in Mathematics 1111 should normally have completed a university preparatory course in Mathematics designed to prepare them for University calculus

Derivatives of the algebraic and exponential functions are developed. Applications include curve sketching, related rates, and optimization problems.

### MATH 1121 (3CR) INTRODUCTION TO CALCULUS II

**Format:** Lecture 3 Hours, Laboratory 1.5 Hours

**Prereq:** MATH 1111; or permission of the Department

The derivatives of trigonometric functions are introduced, various techniques of integration studied and some applications presented. Among these applications are: area between curves, volume work and elementary differential equations.

### MATH 1131 (3CR) MATHEMATICS FOR LIFE AND ENVIRONMENTAL SCIENCE

**Format:** Lecture 3 Hours, Laboratory 1.5 Hours

**Prereq:** MATH 1111; or permission of the Department

**Exclusion:** MATH 1121, 1251

An application-oriented continuation of the study of calculus and an introduction to other topics of interest to students in the life and environmental sciences.

### MATH 1251 (3CR) FINITE MATHEMATICS

**Format:** Lecture 3 Hours

**Exclusion:** MATH 1131

This course introduces students at all levels to the most applicable branches of finite mathematics and is particularly suitable for students in the social and behavioural sciences and commerce. Topics discussed include Markov chains, linear programming and game theory.

### MATH 2111 (3CR) MULTIVARIABLE CALCULUS

**Format:** Lecture 3 Hours

**Prereq:** MATH 1121; or permission of the Department

**Exclusion:** MATH 2111 (Vector Calculus)

Topics include: Sequences and series, power series, Taylor and MacLaurin series; conic sections, quadric surfaces, cylindrical and spherical co-ordinates in three space; functions of several variables: continuity, partial derivatives, tangent planes, chain rule, maximum and minimum values, Lagrange multipliers, double and triple integrals.

### MATH 2121 (3CR) ELEMENTARY DIFFERENTIAL EQUATIONS

**Format:** Lecture 3 Hours

**Prereq:** MATH 2111; or permission of the Department

This is an introduction to the techniques and applications of first and second order differential equations. Included will be: applications of first order equations to areas such as growth and decay, cooling and diffusion, mixture problems, chemical reactions, the logistic equation, orthogonal trajectories, higher order differential equations and applications, and power series solutions of differential equations.

### MATH/COMP 2211 (3CR) DISCRETE STRUCTURES

**Format:** Lecture 3 Hours

**Prereq:** MATH 1111; or permission of the Department

**Exclusion:** MATH 2211 Discrete Mathematics

**Note:** This course is cross-listed as COMP 2211 and may therefore count as three credits in either discipline.

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.

### MATH 2221 (3CR) LINEAR ALGEBRA

**Format:** Lecture 3 Hours

**Prereq:** MATH 1111; or permission of the Department

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.

### MATH 2311 (3CR) STATISTICS I

**Format:** Lecture 3 Hours

**Prereq:** University preparatory level Mathematics or MATH 1011 and either MATH 1111, or registration in second year or higher; or permission of the Department

**Note:** Students may count for credit towards a degree a maximum of 6 credits from BIOL 2701, GENS 2431, MATH 2311, and PSYC 2001

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.

### MATH 2321 (3CR) STATISTICS II

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** MATH 2311 or 3311; or permission of the Department

**Exclusion:** ECON 2701

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.

### MATH 3011 (3CR) SET THEORY AND MATHEMATICAL LOGIC

**Format:** Lecture 3 Hours

**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.

### MATH 3031 (3CR) HISTORY OF MATHEMATICS

**Format:** Lecture 3 Hours

**Prereq:** MATH 1121 (or 1131) and 6 credits from MATH 2111, 2121, 2211 and 2221

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.

### MATH 3111 (3CR) REAL ANALYSIS I

**Format:** Lecture 3 Hours

**Prereq:** MATH 2111, 2121, 2211; or permission of the Department

**Exclusion:** MATH 3110

A systematic and rigorous study of the real numbers and functions of a real variable, emphasizing limits and continuity.

### MATH 3121 (3CR) REAL ANALYSIS II

**Format:** Lecture 3 Hours

**Prereq:** MATH 3111; or permission of the Department

**Exclusion:** MATH 3110

A continuation of Mathematics 3111 including the study of concepts from the Calculus, including differentiation and integration.

### MATH 3131 (3CR) MATHEMATICAL METHODS FOR DIFFERENTIAL EQUATIONS

**Format:** Lecture 3 Hours

**Prereq:** MATH 2121 and 2221; or permission of the Department

This course is designed primarily for students in mathematics, physics, or engineering. It covers systems of 1st and 2nd order ordinary differential equations, Laplace and Fourier transforms, power series solutions for equations with singular points, and Fourier series.

### MATH 3141 (3CR) VECTOR CALCULUS

**Format:** Lecture 3 Hours

**Prereq:** MATH 2111; or permission of the Department

Topics covered include vectors in the plane and in three space, vector functions, curves, tangent and normal vectors, velocity and acceleration; curvature and arc length, directional derivatives and the gradient, vector fields, line integrals, the Fundamental Theorem of line integrals, divergence and curl, Green's Theorem, parametrized surfaces, surface area and surface integrals, flux, Stokes' Theorem, and the Divergence Theorem.

### MATH 3151 (3CR) AN INTRODUCTION TO MATHEMATICAL MODELLING

**Format:** Lecture 3 Hours

**Prereq:** MATH 2121 and 2221; or permission of the Department

This course provides an introduction to the nature of theoretical mathematical modelling illustrated by examples drawn from the physical and engineering sciences, pursuit and conflict problems, population dynamics (mathematical ecology), traffic flow, sociological problems (voting, kinship, cultural stability) and other areas depending on the interests of the class.

### MATH 3211 (3CR) MODERN ALGEBRA I

**Format:** Lecture 3 Hours

**Prereq:** MATH 2211 and MATH 2221; or permission of the Department  
An introduction to the theory of groups and rings.

### MATH 3221 (3CR) ADVANCED LINEAR ALGEBRA

**Format:** Lecture 3 Hours

**Prereq:** MATH 2221; (MATH 2211 is 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.

### MATH 3231 (3CR) NUMBER THEORY

**Format:** Lecture 3 Hours

**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.

### MATH 3251 (3CR) INTRODUCTION TO COMBINATORICS AND GRAPH THEORY

**Format:** Lecture 3 Hours

**Prereq:** MATH 2211, 2221; or permission of the Department

Topics covered include enumeration (permutations and combinations, inclusion-exclusion and pigeonhole principles, recurrence relations and generating functions), algorithmic graph theory (minimum-weight spanning trees and minimum-weight paths) and combinatorial design theory (latin squares and finite geometries, balanced incomplete block designs, triple systems).

### MATH/ECON 3301 (3CR) INTRODUCTION TO GAME THEORY

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** ECON 1001 and ECON 1011; or MATH 1111; or permission of the Department

**Note:** This course is cross-listed as ECON 3301 and therefore may count as 3 credits in either discipline

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.

### MATH 3311 (3CR) PROBABILITY AND STATISTICS I

**Format:** Lecture 3 Hours

**Prereq:** MATH 2111; or permission of the Department

**Exclusion:** MATH 3310

An introduction to the mathematical theory of probability. Topics covered include: sample space, events, axioms, conditional probability, Bayes Theorem, random variables, combinatorial probability, moment generating functions, transformations of random variables, univariate and joint distributions with reference to the binomial, hypergeometric, normal, Gamma, Poisson, and others; convergence of sequences of variables, central Limit Theorem.

### MATH 3321 (3CR) PROBABILITY AND STATISTICS II

**Format:** Lecture 3 Hours

**Prereq:** MATH 3311; or permission of the Department

**Exclusion:** MATH 3310

An introduction to mathematical statistics. Topics covered include: 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.

### MATH/COMP 3411 (3CR) NUMERICAL ANALYSIS

**Format:** Lecture 3 Hours

**Prereq:** MATH 1121, 2221, and COMP 1711 or 1731 or 1751; or permission of the Department

**Note:** This course is cross listed as COMP 3411 and may therefore count as three credits in either discipline.

This course is an introduction to numerical methods for solving a variety of problems in mathematics, the natural sciences, and engineering. Topics to be studied include numerical solution of linear and nonlinear systems of equations, Gauss elimination, pivoting strategies, numerical stability, PLU factorization, tridiagonal matrices, polynomial and cubic spline approximation and interpolation.

### MATH 3431 (3CR) ORDINARY DIFFERENTIAL EQUATIONS

**Format:** Lecture 3 Hours

**Prereq:** MATH 2121 and MATH/COMP 3411; or permission of the Department

This course utilizes both numerical and theoretical techniques to study ordinary differential equations. Topics include numerical, integration, Runge-Kutta and multistep methods, stability, introduction to qualitative methods, phase-plane analysis, stability of non-linear systems, Lyapunov's method, chaos theory.

### MATH/PHYS 3451 (3CR) METHODS OF MATHEMATICAL PHYSICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** MATH 2111, MATH 2221, PHYS 2251

**Note:** This course is cross listed as PHYS 3451 and may therefore count as three credits in either discipline.

This course provides students with a selection of mathematical skills needed in more advanced physics courses. Frequently utilized mathematical methods in theoretical physics are introduced in close connection to physics applications. The assumptions behind the relevant theorems are mentioned in order to discuss their limitations, however, more rigorous mathematical proofs are not generally covered. Topics include vector and tensor analysis, use of special functions, operators and eigenvalue problems. Fourier analysis, and complex variable techniques in physics. The lab component of the course will use symbolic algebra and numerical software, such as Maple, to solve associated physics problems.

### MATH/COMP 3511 (3CR) LINEAR PROGRAMMING

**Format:** Lecture 3 Hours

**Prereq:** MATH 2221, 3 credits in Computer Science; or permission of the Department

**Note:** This course is cross listed as COMP 3511 and may therefore count as three credits in either discipline.

Among the topics covered are linear and integer programming, the simplex and revised simplex methods, duality theory and sensitivity analysis, and various applications.

### MATH/COMP 3531 (3CR) SIMULATION AND MODELLING

**Format:** Lecture 3 Hours

**Prereq:** MATH 1111; one of MATH 2311, 3311, PSYC 2001 and 2011; three credits in Computer Science; or permission of the Department

**Note:** This course is cross listed as COMP 3531 and may therefore count as three credits in either discipline.

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.

### MATH 4111 (3CR) TOPOLOGY

**Format:** Lecture 3 Hours

**Prereq:** MATH 3111; or permission of the Department

**Exclusion:** MATH 4110

An introduction to the study of metric and topological spaces, convergence, and continuous functions.

### MATH 4121 (3CR) TOPICS IN ANALYSIS

**Format:** Lecture 3 Hours

**Prereq:** MATH 3111; or permission of the Department

**Exclusion:** MATH 4110

This course covers selected topics in Analysis, depending on the background and interests of the students involved.

### **MATH 4131 (3CR)** **COMPLEX VARIABLES WITH APPLICATIONS**

**Format:** Lecture 3 Hours

**Prereq:** MATH 2111; or permission of the Department

This course is designed primarily for students in mathematics and physics. It 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.

### **MATH 4141 (3CR)** **MEASURE AND INTEGRATION**

**Format:** Lecture 3 Hours

**Prereq:** MATH 3110 or 3121; or permission of the Department

Topology of  $\mathbb{R}^n$ , Lebesgue Measure, Measurable Functions, the Lebesgue integral, the convergence theorems and products measures. As time permits, other topics such as abstract measure theory,  $L_p$ -spaces and absolute continuity will be covered.

### **MATH 4151 (3CR)** **BOUNDARY AND EIGENVALUE PROBLEMS**

**Format:** Lecture 3 Hours

**Prereq:** MATH 3131; or permission of the Department

This course is designed primarily for students in mathematics, physics, or engineering. It extends the material studied in Mathematics 3131. Topics include separation of variables (product method), generalized Fourier series, Sturm-Liouville theory, Legendre polynomials, Bessel Functions, Green's functions, and calculus of variations.

### **MATH 4161 (3CR)** **TOPICS IN CLASSICAL APPLIED MATHEMATICS**

**Format:** Lecture 3 Hours

**Prereq:** MATH 4131 and 4151; or permission of the Department

This course covers selected topics in Classical Applied Mathematics, depending on the back-ground and interests of the students involved.

### **MATH 4211 (3CR)** **TOPICS IN ALGEBRA**

**Format:** Lecture 3 Hours

**Prereq:** MATH 3221; or permission of the Department

This course covers selected topics in Algebra, depending on the background and interests of the students involved.

### **MATH 4221 (3CR)** **MODERN ALGEBRA II**

**Format:** Lecture 3 Hours

**Prereq:** MATH 3211; or permission of the Department

The classical theory of fields and rings and their applications.

### **MATH 4311 (3CR)** **TOPICS IN PROBABILITY AND STATISTICS**

**Format:** Lecture 3 Hours

**Prereq:** MATH 3311 and 3321; or permission of the Department

This course covers selected topics in Probability and Statistics, depending on the background and interests of the students involved.

### **MATH/COMP 4631 (3CR)** **THEORY OF COMPUTATION**

**Format:** Lecture 3 Hours

**Prereq:** COMP/MATH 2211, COMP 1721 or 1731; or permission of the Department

**Note:** This course is cross listed as COMP 4631 and may therefore count as three credits in either discipline.

This course is an introduction to theoretical aspects of Computer Science such as formal language and automata theory and complexity theory.

### **MATH/COMP 4651 (3CR)** **CRYPTOGRAPHY**

**Format:** Lecture 3 Hours

**Prereq:** COMP 1631 or 1711, 1721 or 1731, COMP/MATH 2211; or permission of the Department

**Note:** This course is cross listed as COMP 4651 and may therefore count as three credits in either discipline.

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.

### **MATH 4951 (3CR)** **SPECIAL TOPICS IN MATHEMATICS**

**Format:** Lecture 3 Hours

This course enables students to pursue their interests in areas not covered by other classes offered at the 4000 level. It usually involves independent study in a program planned by the student and approved by the Department.

## 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 Office of Student Services 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 at 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.

### 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 or Program Co-ordinator must be obtained.

### FREN 1001 (3CR) ELEMENTARY FRENCH I

**Format:** Lecture/Workshop 3 Hours

**Exclusion:** FREN 1100, 2100

**Note:** This course is offered through the Department of Continuous Learning only, in evenings or in the Spring-Summer term. It is not available in the day sessions during the Fall and Winter terms.

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.

### FREN 1011 (3CR) ELEMENTARY FRENCH II

**Format:** Lecture/Workshop, 3 Hours

**Prereq:** FREN 1001

**Exclusion:** FREN 1100, 2100

**Note:** This course is offered through the Department of Continuous Learning only, in evenings or in the Spring-Summer term. It is not available in the day sessions during the Fall and Winter terms.

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.

### FREN 1651 (3CR) PREPARATORY FRENCH / FRANÇAIS PRÉPARATOIRE

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** Placement by the Department. A minimum standard of achievement on the French Skills Assessment is required.

**Exclusion:** FREN 1600

**Note:** Students completing FREN 1651 may continue into FREN 1701. 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.

### FREN 1701 (3CR) INTERMEDIATE FRENCH I / FRANÇAIS INTERMÉDIAIRE I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** FREN 1651 or placement by the Department

**Exclusion:** FREN 1700

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.

**FREN 1711 (3CR)**  
**INTERMEDIATE FRENCH II / FRANÇAIS INTERMÉDIAIRE II**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** FREN 1701 or placement by the Department

**Exclusion:** FREN 1700

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.

**FREN 1801 (3CR)**  
**PARIS, CITY OF LIGHT**

**Format:** Lecture 3 Hours

**Note:** Language of instruction is English

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.

**FREN 1811 (3CR)**  
**CULTURAL ASPECTS OF MODERN QUEBEC**

**Format:** Lecture 3 Hours

**Note:** Language of instruction is English

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.

**FREN 2401 (3CR)**  
**READING AND WRITING FRENCH I / LANGUE ET LECTURES I**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** FREN 1700 or FREN 1711; or placement by the Department

**Exclusion:** any version of FREN 2401 previously offered with a different title

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.

**FREN 2501 (3CR)**  
**READING AND WRITING FRENCH II / LANGUE ET LECTURES II**

**Format:** Lecture 3 Hours, Tutorial 1 Hour

**Prereq:** FREN 2401; or placement by the Department

**Exclusion:** any version of FREN 2501 previously offered with a different title

**Note:** 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.

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.

**FREN 2601 (3CR)**  
**FUNDAMENTALS OF LITERARY ANALYSIS / INITIATION À L'ANALYSE LITTÉRAIRE**

**Format:** Lecture 3 Hours

**Prereq:** Prereq or Coreq: FREN 2501; or permission of the Department

**Note:** 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.

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.

**FREN 2801 (3CR)**  
**FILM FROM THE FRENCH AND FRANCOPHONE WORLD / CINÉMA DU MONDE FRANCOPHONE**

**Format:** Lecture 3 Hours

**Prereq:** FREN 1700 or FREN 1711; or equivalent by placement

**Exclusion:** FREN 2201

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.

**FREN 2841 (3CR)**  
**CULTURAL ASPECTS OF CONTEMPORARY FRANCE / ASPECTS CULTURELS DE LA FRANCE CONTEMPORAINE**

**Format:** Lecture 3 Hours

**Exclusion:** FREN 2851, any version of FREN 2841 previously offered with a different title

**Note:** Language of instruction is English

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.

**FREN 3000 SERIES**

**Prereq:** FREN 2501 for 3101 and 3151; FREN 2601 for literature or culture courses (3201 through 3881); or permission of the Department

**FREN 3101 (3CR)****ADVANCED WRITTEN FRENCH I / LE FRANÇAIS ÉCRIT AVANCÉ I**

**Format:** Lecture 3 Hours

**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.

**FREN 3111 (3CR)****ADVANCED WRITTEN FRENCH II / LE FRANÇAIS ÉCRIT AVANCÉ II**

**Format:** Lecture 3 Hours

**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.

**FREN 3131 (3CR)****ADVANCED ORAL FRENCH / FRANÇAIS ORAL AVANCÉ**

**Format:** Lecture/Workshop 3 Hours

**Prereq:** FREN 2501; or permission of the Department

**Exclusion:** FREN 3151, 3161

**Note:** This course is open to students studying French as a second language.

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.

**FREN 3301 (3CR)****THE AGE OF LOUIS XIV / L'ÉPOQUE DE LOUIS XIV**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** FREN 3321, FREN 3371

Selected works from great writers of the seventeenth century representative of different genre; theatre, poetry, fables, novels or other types of prose texts.

**FREN 3401 (3CR)****THE AGE OF ENLIGHTENMENT / LE SIÈCLE DES LUMIÈRES**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** FREN 3421, any version of FREN 3401 previously offered with a different title

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.

**FREN 3411 (3CR)****THE FRENCH REVOLUTION, BEFORE AND AFTER / LA RÉVOLUTION FRANÇAISE, AVANT ET APRÈS**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and 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.

**FREN 3501 (3CR)****THE AGE OF ROMANTICISM / L'ÉPOQUE DU ROMANTISME**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** any version of FREN 3501 previously offered with a different title

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.

**FREN 3511 (3CR)****THE AGE OF NATURALISM / L'ÉPOQUE DU NATURALISME**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** FREN 3521

Study of French literary 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.

**FREN 3601 (3CR)**  
**MODERNISM AND SURREALISM/ MODERNISME ET SURREALISME**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** Any version of FREN 3601 previously offered with a different title

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.

**FREN 3611 (3CR)**  
**EXISTENTIALISM AND AFTER / EXISTENTIALISME ET APRÈS**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** any version of FREN 3611 previously offered with a different title

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.

**FREN 3621 (3CR)**  
**NEW WRITING, NEW VOICES / NOUVELLES ÉCRITURES, VOIX NOUVELLES**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:**

Study of contemporary literary and cultural production in French (outside Canada) with a focus on new and emerging writers.

**FREN 3721 (3CR)**  
**QUÉBEC LITERATURE FROM THE HABITANT TO THE QUIET REVOLUTION / LITTÉRATURE QUÉBÉCOISE DE L'HABITANT À LA RÉVOLUTION TRANQUILLE**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2510 and FREN 2601; or permission of the Department

**Exclusion:** FREN 3711, 3771

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.

**FREN 3731 (3CR)**  
**CONTEMPORARY VOICES IN QUÉBÉCOIS LITERATURE / VOIX CONTEMPORAINES DANS LA LITTÉRATURE QUÉBÉCOISE**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** FREN 3711, 3771

This course examines the main currents in Québécois literature (fiction, theatre, and poetry) from the 1970s into the twenty-first century.

**FREN 3741 (3CR)**  
**ACADIE: PAST AND PRESENT / L'ACADIE: DE L'EMPREMIER À NOS JOURS**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** FREN 3831

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.

**FREN 3801 (3CR)**  
**FRENCH LITERARY CRITICISM / CRITIQUE LITTÉRAIRE FRANÇAISE**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 AND 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.

**FREN 3811 (3CR)**  
**WORD AND IMAGE / TEXTE ET IMAGE**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and 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 pictorial 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.

**FREN 3821 (3CR)**  
**WRITING IN THE FEMININE / ÉCRITURES AU FÉMININ**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and FREN 2601; or permission of the Department

**Exclusion:** any version of FREN 3821 previously offered with a different title

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.

**FREN 3841 (3CR)**  
**CRITICAL STUDIES IN FRANCOPHONE CULTURE / CULTURES FRANCOPHONES: ÉTUDES CRITIQUES**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and 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.

**FREN 3851 (3CR)**  
**TEXTUAL REPRESENTATIONS OF WOMEN /**  
**REPRÉSENTATIONS DES FEMMES A TRAVERS LES SIÈCLES**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and 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.

**FREN 3861 (3CR)**  
**PORTRAITS OF THE ARTIST IN QUÉBÉCOIS**  
**LITTÉRATURE/PORTRAITS DE L'ARTISTE DANS LA LITTÉRATURE**  
**QUÉBÉCOISE**

**Format:** Lecture 3 Hours

**Prereq:** FREN 2501 and 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 Québécois 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.

**FREN 4001 (3CR)**  
**STYLISTICS / STYLISTIQUE**

**Format:** Lecture 3 Hours

**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.

**FREN 4011 (3CR)**  
**BASIC PROBLEMS IN TRANSLATION /TECHNIQUES DE LA**  
**TRADUCTION ÉLÉMENTAIRE**

**Format:** Lecture/Workshop 3 Hours

**Prereq:** FREN 3111; or permission of the Department

**Exclusion:** any version of FREN 4011 previously offered with a different title

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.

**FREN 4951 (3CR)**  
**INDEPENDENT STUDY / ÉTUDE INDÉPENDANTE**

**Format:** Independent Study

**Prereq:** five courses in French literature and/or culture (completed or in progress) at the 3000 level and permission of the Department

This course is intended for fourth-year students who have taken all possible, regularly scheduled, 3000-level literature and culture courses or who require replacement courses for the 3000-level and/or 4000-level French language courses subsequent to advanced placement. The student will propose a well-defined literary or cultural subject to the appropriate Faculty Member who will direct and supervise the work.

**FREN 4990 (6CR)**  
**MÉMOIRE**

**Format:** Independent Study/Essay

**Prereq:** Permission of the Department

(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.

**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.

**Programs and Activities**

The Department sponsors other programs and activities which support and enrich the course program:

Der Deutsche Klub, a student-run club which supplements the academic programs.

Tübingen Exchange, between Mount Allison University and the Universität Tübingen which permits students to complete an academic year abroad.

Students are encouraged to participate in various programs which allow them to spend some part of the year in Germany, on scholarships, working, or enrolled in a summer school. These opportunities are made available through the German Academic Exchange Service (DAAD), Work-Student-Program, and the Canadian Summer School in Kassel.

**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 or Program Co-ordinator must be obtained.

### GERM 1001 (3CR) ELEMENTARY GERMAN I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Exclusion:** GERM 1000

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.

### GERM 1011 (3CR) ELEMENTARY GERMAN II

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** GERM 1001; or permission of the Department. Students entering from high school with advanced credit should contact the Department before enrolling.

**Exclusion:** GERM 1000

The continuation of German 1001, this course pursues the acquisition of basic proficiency in comprehension, speaking, reading, and writing the German language.

### GERM 2001 (3CR) INTERMEDIATE GERMAN I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** GERM 1000 or 1011; or permission of the Department. Students entering from high school with advanced credit should see the Department before enrolling.

**Exclusion:** GERM 2000

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.

### GERM 2011 (3CR) INTERMEDIATE GERMAN II

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** GERM 2001; or permission of the Department. Students entering from high school with advanced credit should contact the Department before enrolling.

**Exclusion:** GERM 2000

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.

### GERM 2601 (3CR) MODERN GERMAN LITERATURE AND CULTURE

**Format:** Lecture 3 Hours

**Prereq:** GERM 1000 or 1011; or permission of the Department

**Note:** Language of instruction is English

This course offers a survey of key texts and ideas in modern German fiction from the Enlightenment to the twenty-first century.

### GERM 2701 (3CR) THE NEW GERMAN FILM: HISTORY, THEORY, AND PRACTICE. A REVIEW OF THE DEVELOPMENT OF GERMAN CINEMA AFTER WWII

**Format:** Lecture 3 Hours, Film Screening 2.5 Hours

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). Language of instruction: English.

### GERM 2811 (3CR) TURN-OF-THE-CENTURY VIENNA

**Format:** Lecture 3 Hours

**Note:** Language of instruction is English

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.

### GERM 3001 (3CR) ADVANCED GERMAN I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** GERM 2000 or 2011; or permission of the Department

**Exclusion:** GERM 3000

This course studies advanced grammar and syntax in German through further expansion of active vocabulary, frequent compositions, oral reports, and an introduction to stylistics.

### GERM 3401 (3CR) TOPICS IN GERMAN LITERATURE I

**Format:** Lecture 3 Hours

**Prereq:** GERM 2000 or 2011; or permission of the Department

This course explores a selection of literary texts representative of the distinct literary tradition in German speaking countries.

### GERM 3501 (3CR) TOPICS IN GERMAN LITERATURE II

**Format:** Lecture 3 Hours

**Prereq:** GERM 2000 or 2011; or permission of the Department

This course explores a selection of literary texts representative of the distinct literary tradition in German speaking countries.

### GERM 4901 (3CR) DIRECTED READINGS IN GERMAN

**Format:** Lecture 3 Hours

**Prereq:** GERM 2000 or 2011 and permission of the Department

**Note:** GERM 4901 may be taken for credit more than once if the topic differs

This course explores topics in German literature at an advanced level.

### GERM 4951 (3CR) INDEPENDENT STUDY

**Format:** Independent Study

**Prereq:** Permission of the Department

This independent study course is designed to allow the student to carry out a comprehensive exploration of individual authors, literary themes, or some artistic, cultural, political, or social institution or phenomenon. The content of the course must be approved by the Department and arrangements made during the preceding academic term.

## 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. An exchange program with the Universidad Autonoma de Madrid provides a special opportunity for advanced students.

### 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 or Program Co-ordinator must be obtained.

**SPAN 1101 (3CR)**  
**INTRODUCTORY SPANISH I**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Exclusion:** SPAN 1100

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.

**SPAN 1111 (3CR)**  
**INTRODUCTORY SPANISH II**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** SPAN 1101; or permission of the Department

**Exclusion:** SPAN 1100

The continuation of Spanish 1101, this course focuses on elements of Spanish grammar and pronunciation through practice and reading of prescribed texts.

**SPAN 1801 (3CR)**  
**SPAIN: A MOSAIC OF CULTURES, ONE NATION**

**Format:** Lecture 3 Hours

**Exclusion:** SPAN 2001

**Note:** Language of instruction is English

This course is an introduction to the history, culture and art of Spain. It will focus 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. The evolution of the Spanish nation across the centuries will be explored using various resources including cinema, literature, documents, popular culture and music.

**SPAN 1811 (3CR)**  
**LATIN AMERICA IN ITS OWN VOICES**

**Format:** Lecture 3 Hours

**Exclusion:** SPAN 2011

**Note:** Language of instruction is English

An introduction to Latin-American cultures through selected literacy texts, films, and other readings, in their historical and social contexts.

**SPAN 2101 (3CR)**  
**INTERMEDIATE SPANISH I**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** SPAN 1100, SPAN 1111; or permission of the Department

**Exclusion:** SPAN 2100

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.

**SPAN 2111 (3CR)**  
**INTERMEDIATE SPANISH II**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** SPAN 2101; or permission of the Department

**Exclusion:** SPAN 2100

The continuation of Spanish 2101, this course combines intermediate Spanish grammar, translation, oral practice, and reading of prescribed texts with a further introduction to Hispanic literatures and cultures.

**SPAN 2301 (3CR)**  
**LATINO LITERATURE OF THE UNITED STATES AND CANADA**

**Format:** Lecture 3 Hours

**Prereq:** SPAN 1100 or SPAN 1111 or equivalent; or permission of the Department

**Note:** Language of instruction is English

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.

**SPAN 3060 (6CR)**  
**FIELD STUDY IN LANGUAGE AND CULTURE**

**Format:** Field Course

**Prereq:** SPAN 2100 and permission of the Department

**Note:** This course is only available to students through the Department of Continuous Learning during the Spring/Summer Term. Students should be aware of the additional costs of travel and participation fees.

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.

**SPAN 3101 (3CR)**  
**ADVANCED SPANISH I**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** SPAN 2100 or 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.

**SPAN 3111 (3CR)**  
**ADVANCED SPANISH II**

**Format:** Lecture 3 Hours

**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.

### SPAN 3201 (3CR) MIEVEAL SPANISH LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 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. This course will be conducted in Spanish.

### SPAN 3211 (3CR) SPANISH LITERATURE OF THE GOLDEN AGE

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 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. This course will be conducted in Spanish.

### SPAN 3221 (3CR) NINETEENTH-CENTURY SPANISH LITERATURE

**Format:** Lecture 3 Hours

**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. This course will be conducted in Spanish.

### SPAN 3231 (3CR) TWENTIETH-CENTURY SPANISH LITERATURE

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 3111; or permission of the Department

A study of selected poetry, novels and plays of this century beginning with the "Generacion de 1898". This course will be conducted in Spanish.

### SPAN 3301 (3CR) SHORT PROSE OF LATIN AMERICA

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 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. This course will be conducted in Spanish.

### SPAN 3311 (3CR) THE SPANISH-AMERICAN NOVEL

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 3111; or permission of the Department

A study of 19th and 20th Century novels and of the principal themes and forms of the genre. This course will be conducted in Spanish.

### SPAN 3321 (3CR) SPANISH-AMERICAN THEATRE

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 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. This course will be conducted in Spanish.

### SPAN 3331 (3CR) SPANISH-AMERICAN POETRY

**Format:** Lecture 3 Hours

**Prereq:** SPAN 3101 and 3111; or permission of the Department

A survey of the poetry of Latin America, concentrating on the modern (20th Century) period. This course will be conducted in Spanish.

### SPAN 4800/4801 (6/3CR) SPECIAL TOPICS IN HISPANIC LITERATURE AND LANGUAGE

**Format:** Lecture 3 Hours

**Prereq:** At least six credits in 3000 level Literature courses offered in Spanish; or permission of the Department

This seminar course provides students with an opportunity to pursue in-depth study of a specific area of Hispanic Language or Literature.

### SPAN 4950/4951 (6/3CR) A PROGRAM OF INDEPENDENT STUDY

**Format:** Independent Study

**Prereq:** Permission of the Department

Study of a well-defined subject carried out on a tutorial basis. The syllabus will be planned at the end of the student's third year in consultation with the professor directing the work.

## 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, 3531, GENV 3321, HIST/POLS 3731, HIST 2700, 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 7.2.12.

**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 or Program Co-ordinator must be obtained.

### JAPA 1001 (3CR) INTRODUCTORY JAPANESE I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Exclusion:** JAPA 1000

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.

### JAPA 1011 (3CR) INTRODUCTORY JAPANESE II

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** JAPA 1001; or permission of the Department

**Exclusion:** JAPA 1000

A continuation of Japanese 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.

### JAPA 2001 (3CR) INTERMEDIATE JAPANESE I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** JAPA 1000 or JAPA 1011; or permission of the Department

**Exclusion:** JAPA 2000

This course is a continuation of Japanese 1011, directing particular attention to communications skills in both writing and speaking Japanese.

### JAPA 2011 (3CR) INTERMEDIATE JAPANESE II

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** JAPA 2001; or permission of the Department

**Exclusion:** JAPA 2000

This course is a continuation of Japanese 2001 directing particular attention to communications skills in both writing and speaking Japanese.

## 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 Coordinator must be obtained.

### LING 2001 (3CR) INTRODUCTION TO THE STUDY OF LANGUAGE

**Format:** Lecture 3 Hours

**Prereq:** None

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.

### LING 3001 (3CR) FUNDAMENTALS OF GENERAL LINGUISTICS.

**Format:** Lecture 3 Hours

**Prereq:** Normally LING 2001 and a minimum of six credits in a language other than English are expected. However, 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.

### LING 3011 (3CR) LANGUAGE AND SOCIETY

**Format:** Lecture 3 Hours

**Prereq:** LING 2001 and a minimum of six 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.

## 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, 3201, 3301, 3401, 3411, 3501, 3511, 3601, 3611, 3621, 3711, 3741, 3771, 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 or Program Co-ordinator must be obtained.

#### **MLLC 4990 (6CR) HONOURS ESSAY**

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

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.

## **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. At the present time, music offerings range from degree programs which prepare students for professional careers in music to elective courses designed especially for Arts, Commerce, Fine Arts, or Science students. 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 sound basis 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, Applied Studies, and Performance Electives.

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. MUSC 2001 and 2011 are basic courses in the study and appreciation of Music which are designed for non-Music students. MUSC 1001 is available to students without prerequisite. Enrolment in MUSC 1101 is determined by an Entrance Assessment. Other courses are open with Departmental permission and/or upon completion of the necessary prerequisite(s). Subject to auditions, all students may participate in the Music Department's ensembles, which are valued at one credit per year of participation.

**Note:** For information concerning the Bachelor of Music Degree Requirements, see Section 7.6 - Music.

For a full description of the Marjorie Young Bell Conservatory of Music and its fine facilities, see Section 1 - Introduction (The Campus) - Marjorie Young Bell Conservatory of 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:**

- 6 from 1101 and 1111  
6 from 1201 and 1211; or 1001, 1011, 2001, 2011  
6 from 1201, 1211, 1503, 2101, 2111, 2141, 2151, 2201, 2211, 2503; Students must audition for entry to MUSC 1503  
6 from Music courses at the 3000-4000 level

### **MAJOR in Music is 60 credits earned as follows:**

- 24 from 1101, 1111, 1201, 1211, 2101, 2111, 2201, 2211  
3 from 1503

- 3 from 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 1689-4689, 2679-4679
- 12 from 3000-4000 level Music electives
- 18 elective credits chosen in consultation with the Department, at least 9 of which must be at the 3000-4000 level
- Note: Students must audition for entry to MUSC 1503
- 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
- 24 from 3000-4000 level Music electives

### HONOURS in Music (Thesis Option) is 66 credits earned as follows:

- 42 credits as in the first four lines of the Major in Music
- 18 from 3000-4000 level Music electives
- 6 from MUSC 4990

## MUSIC COURSES

Music courses are offered under the following categories:

**Theory and Composition:** MUSC 1001, 1011, 1101, 1111, 2101, 2111, 2141, 2151, 3121, 3131, 3141, 3151, 3161, 3171, 4141, 4151, 4161, 4181, 4191

**Note:** Placement of students in MUSC 1101 will be determined by the Department on the basis of an Entrance Assessment given as part of the audition process, and during orientation week. MUSC 1001 and 1011 may not be used to fulfill the requirements for the Bachelor of Music degree.

**Music History and Literature:** MUSC 1201, 1211, 2001, 2011, 2201, 2211, 3001, 3211, 4221

**Note:** MUSC 2001 and 2011 may not be used to fulfill the requirements for the Bachelor of Music degree.

**Music Education:** MUSC 3301, 3311, 3321, 3333, 3343, 4311, 4351, 4361

**Note:** Registration in instrumental methods courses is subject to the availability of musical instruments. Students should consult the course timetable carefully regarding the term(s) in which these courses are offered.

**Applied Music:** MUSC 1500, 1503, 2500, 2503, 3500, 3503, 4500, 4503, 4580, 4590, 4600

**Performance Electives:** MUSC 2521, 2603, 2613, 3401, 3411, 3421, 3603, 3613, 4603, 4613

**Note:** Some of these electives are 3 credit courses which run through Fall and Winter terms. For complete information please consult the course timetable.

**General Elective:** MUSC 4951

**Honours Thesis:** MUSC 4990

**One Credit Ensembles:** MUSC 1629-4629, 1639-4639, 1649-4649, 1659-4659, 1669-4669, 2679-4679, 1689-4689

**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.

### MUSC 1001 (3CR) FUNDAMENTALS OF MUSIC I

**Format:** Lecture 3 Hours

**Note:** 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.

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.

### MUSC 1011 (3CR) FUNDAMENTALS OF MUSIC II

**Format:** Lecture 3 Hours

**Prereq:** MUSC 1001

**Note:** 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.

This course is a continuation of Music 1001.

### MUSC 1101 (3CR) MATERIALS OF MUSIC I

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**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. It includes practice in aural musicianship skills including sight-singing, interval recognition, dictation, improvisation, and keyboard skills.

### MUSC 1111 (3CR) MATERIALS OF MUSIC II

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**Prereq:** MUSC 1101

This course is a continuation of Music 1101.

### MUSC 1201 (3CR) MUSIC HISTORY AND LITERATURE I

**Format:** Lecture 3 Hours

**Prereq:** Registration in the first year of the B.Mus. or B.A. (Major or Honours in Music), Minor in Music; or permission of the Department

**Coreq:** MUSC 1101

This is the first course in a series designed to introduce students to the history and literature of music in the Western World. This course will provide an overview of the various style eras and genres of Western Art Music. Changing concepts, styles, forms and media will be considered and compared through readings, score study, recordings, library research, and classroom performance.

### MUSC 1211 (3CR) MUSIC HISTORY AND LITERATURE II

**Format:** Lecture 3 Hours

**Prereq:** MUSC 1201; or permission of the Department

**Coreq:** MUSC 1111

This course is a survey of Western music history and literature from its beginnings to 1750, including score study, library research on historical topics within the period, and occasional performance of works studied.

### MUSC 1500/2500/3500/4500 (6 CR) MUSC 1503/2503/3503/4503 (3 CR) APPLIED MUSIC I, II, III, IV

**Format:** Private Instruction 1 Hour (1500-4500) Or 30 Minutes (1503-4503), Master Classes

**Prereq:** For 1500 and 1503: audition; for advanced levels successful completion of the preceding course in the sequence. Students intending to register for MUSC 4503 must seek the permission of the Department while registered in MUSC 3500. The Department's decision will be determined in consultation with the student's studio teacher and MUSC 3500 jury members.

**Note:** MUSC 1503, 2503, 3503 may not be counted as core courses in the B.Mus. program. All piano and organ students enrolled in MUSC 2500 must take MUSC 2601.

These applied courses involve individual weekly instruction in vocal and instrumental music, and facilitate technical command, interpretive insight, and understanding of pedagogical procedures. These courses stress 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, thus allowing students to interpret representative works of the past and present.

### MUSC 2001 (3CR) INTRODUCTION TO MUSIC

**Format:** Lecture 3 Hours

**Note:** 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 2011 or 1201.

This course is designed to help the student become a more aware and better-informed listener. It begins with the development of listening skills and an understanding of the elements of music, followed by a study of musical instruments from both Western and other traditions and an examination of various forms and genres of music.

### MUSC 2011 (3CR) SURVEY OF WESTERN MUSIC

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2001; or permission of the Department

**Note:** 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.

This course focuses on the study of music in the Western world and on the further 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.

### MUSC 2101 (3CR) MATERIALS OF MUSIC III

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**Prereq:** MUSC 1111; or permission of the Department

This course is a review and continuation of Music 1111 covering more advanced materials in the harmonic, melodic, rhythmic, and formal elements of music. It includes further development of aural musicianship skills practiced in MUSC 1101 and 1111.

### MUSC 2111 (3CR) MATERIALS OF MUSIC IV

**Format:** Lecture 3 Hours, Laboratory 2 Hours

**Prereq:** MUSC 2101; or permission of the Department

This course is a continuation of Music 2101.

### MUSC 2141 (3CR) ELEMENTARY COMPOSITION I

**Format:** Lecture 3 Hours

**Prereq:** MUSC 1111; or permission of the Department

Work in the small forms using traditional concepts, techniques and idioms. An attempt will be made to develop an approach to composition that will serve the student in whatever style or medium is chosen. The initial emphasis will be placed 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. The focus shifts gradually to cohesion, the development of materials and the handling of contrast.

### MUSC 2151 (3CR) ELEMENTARY COMPOSITION II

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2141; or permission of the Department

A continuation of Music 2141 in Term II.

### MUSC 2201 (3CR) MUSIC HISTORY AND LITERATURE III

**Format:** Lecture 3 Hours

**Prereq:** MUSC 1211; or permission of the Department

**Coreq:** MUSC 2101

This course is a survey of Western music history and literature from 1750 to 1900 combining lecture and discussion with individual research projects on historical issues of the period and with score study.

### MUSC 2211 (3CR) MUSIC HISTORY AND LITERATURE IV

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2201; or permission of the Department

**Coreq:** MUSC 2111

This course is a survey of Western music history and literature from 1900 to the present. It examines the social, cultural, historical context of the works studied as well as musical analysis of representative works.

### **MUSC 2521 (3CR) DICTION FOR SINGERS**

**Format:** Lecture 3 Hours

This course will acquaint students with the symbols and sounds of the International Phonetic Alphabet and with the application of the IPA to the English, French, German, Italian, Latin and Spanish languages. The differences between spoken and sung language will be explored and the physical processes required to produce the various sounds will be investigated and practised.

### **MUSC 2603 (3CR) COLLABORATIVE KEYBOARD I**

**Format:** Lecture/Laboratory 3 Hours

**Prereq:** MUSC 1500; permission of the Department

**Note:** All piano and organ students registered for MUSC 2500 must also take MUSC 2603

This course provides students with the basic knowledge and skills necessary for an artistic accompaniment. Students examine different styles of music including Art Song, Lieder and Oratorio, as well as accompaniments for instrumental works and orchestral reductions.

### **MUSC 2613/3613/4613 (3CR) CHAMBER MUSIC I/II/III**

**Format:** Private Instruction 1 Hour

**Prereq:** MUSC 2613 open to 2nd, 3rd, and 4th year music students in their major instrument with the permission of the applied music instructor, the course instructor, and the coordinator; others by permission of the Department

**Prereq:** MUSC 3613: MUSC 2613 and permission of the Department

**Prereq:** MUSC 4613: MUSC 3613 and permission of the Department

These courses (taken in sequence) are designed to give students practical experience in the art of chamber music performance. Students will be assigned to instructors and repertoire (30 minutes minimum) will be chosen and approved in the Spring prior to the beginning of the next academic year. There will be two public performances by each chamber group.

### **MUSC 3001 (3CR) INTRODUCTION TO MUSIC IN CANADA**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2011 or MUSC 2211; or permission of the Department

This course is a survey of the history of music in Canada from the beginning of the seventeenth century to the present. Reference will be made to the folk music of indigenous and immigrant groups. Some attention will be given to the development of listening skills and understanding of the elements of music related to the course. Historical and social consideration alongside a chronological approach to Canadian music history will form the basis of the course.

### **MUSC 3121 (3CR) ORCHESTRATION I**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2111; or permission of the Department

A course in the use of the instruments of the modern symphony orchestra and the relationship between medium and style. Scoring for groups of instruments and for full orchestra. Score analysis. Preparation of parts for performance.

### **MUSC 3131 (3CR) ORCHESTRATION II**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 3121; or permission of the Department

A continuation of Music 3121 in Term II.

### **MUSC 3141 (3CR) INTERMEDIATE COMPOSITION I**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2151; or permission of the Department

A continuation of Music 2151 with work in both small and large forms, using concepts, techniques and idioms of 20th century art music.

### **MUSC 3151 (3CR) INTERMEDIATE COMPOSITION II**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 3141; or permission of the Department

A continuation of Music 3141 in Term II.

### **MUSC 3161 (3CR) INTRODUCTION TO ARRANGING I**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2111; or permission of the Department

A survey of the tools and techniques indispensable to the successful arranger through the study of various types and styles of arrangements. Although the major focus of the course will be on choral arranging, students will be introduced to the fundamentals of instrumental arranging as well.

### **MUSC 3171 (3CR) INTRODUCTION TO ARRANGING II**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 3161; or permission of the Department

A continuation of Music 3161 in Term II.

### **MUSC 3211 (3CR) SELECTED TOPICS IN MUSIC AND CULTURE**

**Format:** Lecture 3 Hours

**Prereq:** For students in the B. Mus. or B.A. Music programs, MUSC 2211 is normally expected. Students in other programs will be admitted with permission of the Department; MUSC 2001 and/or MUSC 2011 are recommended.

This course is a study of selected musical genres, issues, composers and/or styles, usually from historical and critical perspectives. The topics selected will vary from year to year and may include Musical Theatre, Music in Popular Culture, Women in Music, Music and Difference, The History of Opera, Literature for the Keyboard, and Music and Technology.

**MUSC 3301 (3CR)  
VOCAL METHODS****Format:** Lecture 2 Hours**Prereq:** MUSC 1111; or permission of the Department

This is a practical course designed to acquaint the student with the skills required for good singing. The basic physiology, acoustics and co-ordination of singing will be studied in a class situation. The emphasis will be on vocal production and expression and will include solo singing of standard repertoire, with critical analysis by the class of vocal technique and style. The application of vocal principles to choral singing will also be considered.

**MUSC 3311 (3CR)  
ELEMENTARY METHODS****Format:** Lecture 3 Hours**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.

**MUSC 3321 (3CR)  
BRASS METHODS****Format:** Lecture 2 Hours**Prereq:** MUSC 1111; or permission of the Department

A practical course designed to acquaint the student with the basic skills necessary for the playing and teaching of the instruments of the brass family. Concentration is on basic embouchure formation, posture, hand position, fingering or slide position, proper breathing, and methodology.

**MUSC 3333 (3CR)  
WOODWIND METHODS****Format:** Lecture 2 Hours**Prereq:** MUSC 1111; or permission of the Department

A practical course designed to acquaint the student with the basic skills necessary for the playing and teaching of the instruments of the woodwind family. Concentration is on basic embouchure formation, posture, fingering, proper breathing, and methodology.

**MUSC 3343 (3CR)  
STRING METHODS I****Format:** Lecture 2 Hours**Prereq:** MUSC 1111; or permission of the Department

A practical course designed to acquaint the student with the basic skills necessary for the playing and teaching of the instruments of the bowed string family. Instrumental assignment is made by the instructor, and the student plays one instrument (violin, viola, cello, or bass) for the duration of the course. Concentration is on basic techniques of posture, position, bowing and left-hand finger patterns.

**MUSC 3401 (3CR)  
INTRODUCTION TO CONDUCTING****Format:** Lecture/Laboratory 3 Hours**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.

**MUSC 3411 (3CR)  
CHORAL CONDUCTING****Format:** Lecture/Laboratory 3 Hours**Prereq:** 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.

**MUSC 3421 (3CR)  
INSTRUMENTAL CONDUCTING****Format:** Lecture/Laboratory 3 Hours**Prereq:** 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.

**MUSC 3603/4603 (3CR)  
COLLABORATIVE KEYBOARD II/III****Format:** Private Instruction 1 Hour**Prereq:** For 3603: MUSC 2603; for 4603: MUSC 3603

These courses provide students with practical experience in the accompaniment of shared recitals with student vocalists and instrumentalists.

**MUSC 3613 (3CR)  
CHAMBER MUSIC II****Format:** Private Instruction 1 Hour**Prereq:** MUSC 2613; or permission of the Department**MUSC 4141 (3CR)  
ADVANCED COMPOSITION I****Format:** Seminar 3 Hours**Prereq:** MUSC 3151; or permission of the Department

A continuation of Music 3151 with adding emphasis on the development of an individual style.

**MUSC 4151 (3CR)  
ADVANCED COMPOSITION II****Format:** Seminar 3 Hours**Prereq:** MUSC 4141; or permission of the Department

A continuation of Music 4141 in the Term II.

### **MUSC 4181 (3CR) ANALYTICAL TECHNIQUES I**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 2111; or permission of the Department

Development of skills in the analysis of music through examination of scores drawn from a wide range of periods, styles and media.

Introduction and application of various theories of coherence and unity (Schenker, Hindemith, Messiaen, et al.).

### **MUSC 4191 (3CR) ANALYTICAL TECHNIQUES II**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 4181; or permission of the Department

A continuation of Music 4181 in Term II.

### **MUSC 4221 (3CR) SEMINAR IN MUSIC HISTORY**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 3251; or permission of the Department

**Note:** Students may register for MUSC 3211 and/or 4221 more than once, provided the subject matter differs.

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. Emphasis will be placed on the development of research, bibliographical, and writing skills, as well as on the presentation of oral reports. This course is especially useful for students contemplating graduate studies in Musicology.

### **MUSC 4311 (3CR) SECONDARY METHODS**

**Format:** Lecture 3 Hours

**Prereq:** MUSC 3311; or permission of the Department

This course, which is a continuation of Music 3311, covers several aspects of music instruction at the secondary level including choral, instrumental, and general music programs. An introduction to the use of technology in music programs and classroom harmony instruments will also be included.

### **MUSC 4351 (3CR) PERCUSSION METHODS**

**Format:** Lecture 2 Hours

**Prereq:** MUSC 1111; or permission of the Department

A practical course designed to acquaint the student with the basic skills necessary for the playing and teaching of the instruments of the percussion family. Initial concentration is on rudiment and advanced drumming techniques, followed by basic instruction on tympani and mallet instruments, and percussion instruments of indefinite pitch.

### **MUSC 4361 (3CR) KEYBOARD METHODS**

**Format:** Lecture 2 Hours

**Prereq:** MUSC 1111; or permission of the Department

This course is designed to acquaint the student with the essential principles of creative keyboard teaching in an individual or group situation. The historical development of keyboard playing will be examined along with the special problems confronting the teacher of today. A survey of teaching material will include the comparison and evaluation of approaches for children and older beginners.

### **MUSC 4580 (6 CR) CREDITED SHARED RECITAL**

**Format:** Private Instruction 1 Hour, Master Classes

**Prereq:** MUSC 2111, 2211, MUSC 3500, and permission of the Department. Students intending to register for MUSC 4580 must attain at least A- in MUSC 3500, and must have participated in at least two collegia recitals (or the equivalent) since enrolling in the B.Mus. program.

This course involves the preparation and execution of a public recital program of approximately 30 minutes in length under the supervision of the student's Applied Music teacher. The program must be planned at the end of the student's MUSC 3500 year in consultation with the teacher, and it must be submitted to the Department for approval.

### **MUSC 4590 (6 CR) CREDITED FULL RECITAL**

**Format:** Private Instruction 1 Hour, Master Classes

**Prereq:** MUSC 2111, 2211, MUSC 3500, and approval of the Department. Students intending to register for MUSC 4590 must attain at least A- in MUSC 3500, and must have participated in at least one shared recital.

This course involves the preparation and execution of a public recital program of approximately 60 minutes in length under the supervision of the student's Applied Music teacher. The program must be planned at the end of the year in which a student completes MUSC 3500 in consultation with the teacher, and it must be submitted to the Department for approval.

### **MUSC 4600 (6CR) COLLABORATIVE KEYBOARD IV**

**Format:** Private Instruction 1 Hour

**Prereq:** MUSC 3603 and permission of the Department

This course allows fourth year keyboard students to concentrate on accompaniment in lieu of MUSC 4500. The student is expected to accompany a full recital, or two shared recitals, or the equivalent thereof in the accompaniment of several individuals or a major ensemble or ensembles.

### MUSC 4613 (3CR) CHAMBER MUSIC III

**Format:** Private Instruction 1 Hour

**Prereq:** MUSC 3613; or permission of the Department

### MUSC 4951 (3CR) SPECIAL TOPICS IN MUSIC

**Format:** Lecture 3 Hours

**Prereq:** Completion of the core Music courses in the area of the Special Topics elective; or permission of the Department

**Note:** This course may be used as a Group B Music Elective in the Bachelor of Music degree.

This course allows students the opportunity to pursue a topic of special interest not covered in other Department of Music courses, or a topic not covered in depth by the course offered.

### MUSC 4990 (6CR) HONOURS THESIS

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

The content of study is to be determined by the student in conjunction with one or more supervisors of the course.

### THE FOLLOWING ARE ONE CREDIT ENSEMBLES:

MUSC 1629-4629 CHAMBER ORCHESTRA

MUSC 1639-4639 SYMPHONIC BAND

MUSC 1649-4649 INSTRUMENTAL JAZZ ENSEMBLE

MUSC 1659-4659 ELLIOTT CHORALE

MUSC 1669-4669 CHORAL SOCIETY

MUSC 1689-4689 LARGE ENSEMBLE OF LIKE INSTRUMENTS  
(BRASS CHOIR)

MUSC 2679-4679 OPERA WORKSHOP

**Prereq:** Permission of the Department

### 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.

### PRACTICE FACILITIES

Practice facilities are available in the Department of Music for non-music majors from 5 p.m. to 6:30 p.m. daily. Other times are reserved for students registered in music performance courses.

## 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
- 6 to 12 from Philosophy at the 2000 level
- 24 to 30 from Philosophy at the 3/4000 level, including 6 from 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 66 credits earned as follows:

- 42 credits as in the first three lines of the Major, plus:
- 6 from PHIL 4990
- 18 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 or Program Co-ordinator must be obtained.

### PHIL 1601 (3CR) PLATO'S REPUBLIC

**Format:** Lecture 3 Hours

A study of Plato's *The Republic* can serve as an introduction to almost all the issues that are central to our western philosophical tradition. The problems of virtue (temperance, courage, wisdom), justice, order (social, political and cosmological), knowledge, the nature of the psyche, beauty, and of reality in general will all arise in the study of this text, providing a good basis for discussion.

### PHIL 1611 (3CR) IMAGES OF THE SELF

**Format:** Lecture 3 Hours

**Exclusion:** Any version of PHIL 1611 previously offered with a different title

An inquiry into the meaning of the word 'person', drawing on cultural theory, contemporary film, and key moments in the western philosophical tradition. Issues to be discussed may include self-identity and self-fragmentation, freedom and responsibility, the role of myth and symbol in self-knowledge, individuation, otherness, and religious experience.

### PHIL 1651 (3CR) THE CHANGING IMAGE OF NATURE

**Format:** Lecture 3 Hours

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.

### PHIL 2401 (3CR) INTRODUCTORY AESTHETICS

**Format:** Lecture 3 Hours

**Prereq:** Three credits from the Humanities 1600 Series; or permission of the Department

An introduction to the idea of beauty in such thinkers as Plato, Aquinas, Kant, and Heidegger. Topics to be discussed include the relationship of beauty to truth, the experience of the sublime, and the philosophy of art.

### PHIL 2511 (3CR) INTRODUCTORY PHILOSOPHY OF SCIENCE

**Format:** Lecture 3 Hours

**Prereq:** Three 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.

### PHIL 2611 (3CR) INTRODUCTORY LOGIC

**Format:** Lecture 3 Hours

**Prereq:** Three credits from Humanities 1600 Series; or permission of the Department

**Exclusion:** Any version of PHIL 2611 previously offered with a different title, PHIL 2621

A general introduction to the study of logic. The course will begin by examining the basic structure of arguments, common reasoning fallacies, and issues central to inductive and deductive reasoning. Further topics may include Mill's methods, syllogistic reasoning, Venn diagrams, truth tables, sentential logic, and an introduction to quantification theory.

### PHIL 2701 (3CR) INTRODUCTORY ETHICS

**Format:** Lecture 3 Hours

**Prereq:** Three 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.

### PHIL 2801 (3CR) INTRODUCTION TO METAPHYSICS

**Format:** Lecture 3 Hours

**Prereq:** Three 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.

### PHIL 3000 (6CR) ANCIENT PHILOSOPHY

**Format:** Lecture 3 Hours

**Prereq:** Three credits from 2000-level Philosophy; or permission of the Department

The issues which develop before and with Plato establish the framework for all subsequent philosophic reflection. This course will examine some of these issues as they appeared prior to Plato and will employ these "pre-Socratics" as an entry into Plato's philosophy. Subsequently, aspects of Aristotle's thought will be explored as alternatives to and developments of Plato's philosophy.

**PHIL 3221 (3CR)**  
**MODERN PHILOSOPHY: THE RATIONALIST TRADITION**

**Format:** Lecture 3 Hours

**Prereq:** Three credits from 2000-level Philosophy; or permission of the Department

An investigation of 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, and 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.

**PHIL 3231 (3CR)**  
**MODERN PHILOSOPHY: THE EMPIRICIST TRADITION**

**Format:** Lecture 3 Hours

**Prereq:** Three credits from 2000-level Philosophy; or permission of the Department

An investigation of the thought of the English language thinkers of the seventeenth and eighteenth centuries. These authors, among whom are to be counted Locke, Berkeley and Hume, in part may be understood as reacting to the a priori tradition examined by Philosophy 3111. But they also make claims that are not merely reactive, and the extent to which one or more of them proposes a coherent interpretation of the extent and the limitations of human understanding will be investigated.

**PHIL 3240 (6CR)**  
**KANT**

**Format:** Lecture 3 Hours

**Prereq:** Three credits from PHIL 2801, 3221 or 3231; or permission of the Department

**Exclusion:** PHIL 4200

An examination of Kant's Critical project, including the arguments for the existence of God, freedom and immortality to which it led. This will involve, among other things, a close study of the *Critique of Pure Reason*, *The Groundwork for the Metaphysics of Morals*, *The Critique of Practical and Religion Within the Bounds of Mere Reason*.

**PHIL 3250 (6CR)**  
**19TH CENTURY GERMAN PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Three credits from PHIL 2801, 3221 or 3231; or permission of the Department

Idealism is the doctrine that reality is mind-dependent. This course charts the rise and fall of idealism in nineteenth century Germany, from the post-Kantian system builders, Fichte, Schelling, and Hegel, through the anti-idealist reactionaries, the later Schelling, Schopenhauer, and Kierkegaard, to the ascendancy of suspicion in Freud, Marx and Nietzsche.

**PHIL 3511 (3CR)**  
**PHILOSOPHY OF THE LIFE SCIENCES**

**Format:** Lecture 3 Hours

**Prereq:** Normally Philosophy 2511 is expected. However B.Sc. students already doing 3/4000 level work in their own field, and students in either the Environmental Science or Environmental Studies or Cognitive Science programs, 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.

**PHIL 3631 (3CR)**  
**SYMBOLIC LOGIC**

**Format:** Lecture 3 Hours

**Prereq:** Three credits from 2000-level Philosophy; or permission of the Department

This is a basic course in Symbolic Logic, concentrating on the nature of logic, methods of deduction, quantification theory, and the logic of relational statements.

**PHIL 3711 (3CR)**  
**BIOMEDICAL ETHICS**

**Format:** Lecture 3 Hours

**Prereq:** Philosophy 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.

**PHIL 3721 (3CR)**  
**ENVIRONMENTAL ETHICS**

**Format:** Lecture 3 Hours

**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"?

**PHIL/RELG 3891 (3CR)**  
**INDIAN PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Three credits from 2000-level Philosophy; or permission of the Department

**Note:** This course is cross-listed as RELG 3891 and may therefore count as three credits in either discipline.

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.

**PHIL 4101 (3CR)**  
**ADVANCED ANCIENT AND MEDIEVAL PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

Advanced study of one or more of the main philosophers of these periods, or one or more philosophic questions they address.

**PHIL 4211 (3CR)**  
**SELECTED TOPICS IN CONTINENTAL PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

An exploration of the variety of twentieth-century philosophical schools inspired by Edmund Husserl's phenomenology, which attempted to turn philosophy into a rigorous science by giving an unprejudiced, descriptive account of consciousness. Topics may include Heidegger's response and reaction to Husserl, the existentialism of Marcel and Sartre, Levinas' phenomenological ethics, the hermeneutic turn in Gadamer and Ricoeur, and Derrida's deconstructionism.

**PHIL 4311 (3CR)**  
**19TH & 20TH CENTURY POLITICAL PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

A careful study of some representative texts in 19th and 20th century social and political philosophy in the light of their relevance for contemporary issues. Selections will typically be drawn from the works of G.W.F. Hegel, Friedrich Nietzsche, Karl Marx, Leo Strauss, Theodor Adorno, Jürgen Habermas, Michel Foucault, and John Rawls.

**PHIL 4511 (3CR)**  
**PHILOSOPHY OF MIND**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

A study of the contemporary philosophical arguments which attempt to resolve the real nature of mental states vis à vis the physical states of the brain; how it is we have knowledge of our own sensations, beliefs, desires, our own consciousness and how we gain knowledge of other minds; and also the more general questions of how we should best proceed to resolve these issues.

**PHIL 4611 (3CR)**  
**SELECTED TOPICS IN ANALYTIC PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

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.

**PHIL 4950/4951 (6/3CR)**  
**PROBLEMS IN PHILOSOPHY**

**Format:** Seminar 3 Hours

**Prereq:** Permission of the Department

A senior seminar or tutorial course to be determined by the student(s) and instructor(s) involved.

**PHIL 4990 (6CR)**  
**HONOURS TOPIC**

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

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.

## 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 1051
- 3 from MATH 1111
- 3 from PHYS 1551, 3521
- 15 from MATH 1121 or Physics, including 6 from the 3/4000 level, chosen in consultation with the Program Advisor. Physics 1001 or Physics 2401, but not both, can be used on the Physics Minor

#### MINOR in Applied Physics is 24 credits earned as follows:

- 9 from PHYS 1051, 1551, 2801
- 3 from MATH 1111
- 12 from PHYS 3321, 3361, 3521, 3581, 3601, 3701, 3751, COMP 1631, MATH 1121

#### MAJOR in Physics is 63 credits earned as follows:

- 6 from PHYS 1051, 1551
- 6 from CHEM 1001, 1021
- 3 from COMP 1631
- 15 from MATH 1111, 1121, 2111, 2121, 2221
- 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

#### HONOURS in Physics is 87 credits earned as follows:

- 63 credits as in the Major
- Note that 6 of the 12 from Physics at the 3/4000 level in line 6 of the Major must be from the 4000 level (not counting those listed below)
- 6 from PHYS 4990
- 6 from PHYS 3201, 3821
- 3 from MATH 3141
- 3 from MATH 3131, 3221, 3411, 3431, 4131, 4151

- 6 from Physics or Mathematics at the 3000/4000 level, chosen in consultation with the Program Advisor

### Interdisciplinary B.Sc. Program

#### B.Sc. HONOURS in Mathematics and Physics is 90 credits earned as follows:

- 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, 4131
- 6 from MATH 3121, 3131, 3151, 3231, 3321, 3411, 3431, 3531, 4111, 4151, 4211
- 18 from PHYS 3101, 3201, 3701, 3811, 3821, 4411
- 3 from Physics at the 4000 level
- 6 from PHYS 4990

### 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 or Program Co-ordinator must be obtained.

#### PHYS 1001 (3CR) ASTRONOMY

**Format:** Lecture 3 Hours, Laboratory 1.5 Hours

This course provides a broad introduction to current ideas regarding the nature, evolution and future of the universe. Topics covered include observational astronomy, telescopes, celestial motions, the solar system, stellar evolution, black holes, relativity, cosmology, and life in the universe. A background in physics is not assumed, but basic concepts of physics are taught within the course. The laboratory experiences combine observational and laboratory based experiments.

#### PHYS 1051 (3CR) GENERAL PHYSICS I

**Format:** Integrated Lecture/Collaborative Learning/Laboratory, 6 Hours

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.

### PHYS 1551 (3CR) GENERAL PHYSICS II

**Format:** Integrated Lecture/Collaborative Learning/Laboratory, 6 Hours

**Prereq:** PHYS 1051 and MATH 1111; or permission of the Department

**Note:** MATH 1111 may be taken as a Corequisite with permission of the Department

This calculus based introductory physics course covers rotational motion, angular momentum, simple harmonic motion, gravitation, electric fields forces and potentials, capacitors, magnetism, electromagnetic induction, AC circuits, introductory thermodynamics, nuclear reactions and additional selected topics in modern physics.

### PHYS 2251 (3CR) CLASSICAL WAVES

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1551 and 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.

### PHYS 2401 (3CR) PHYSICS IN EVERYDAY LIFE

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** Completion of 24 credits or permission of the Department

**Exclusion:** PHYS 2401 (Structure of Physics)

This course, designed primarily for non-science majors who have successfully completed their first year, examines the relationship between a variety of phenomena in everyday life and physics principles. Experiential activity including a number of field trips, experiments in the laboratory and relevant data analysis form the underpinnings of this study of physics. Topics include principles and applications of particle, rigid body and fluid mechanics; thermodynamics, magnetism; electricity, and optics. Participation in field trips and a major report/presentation are required.

### PHYS 2801 (3CR) DATA ACQUISITION AND ANALYSIS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1051 and MATH 1111; or permission of Department

This experimentally oriented course is designed to give the students an exposure to the techniques and software tools that can assist them in using computers to enhance their work throughout a science curriculum. Basic methodology for data manipulation is introduced (error analysis, statistical analysis of data, linear regression, graphing, Fourier transform techniques), as are aspects of simulation, digitization, interfacing and data acquisition, and presentation. The course will also include sensors and transducers to convert a variety of signals (light, pressure, strain, radioactivity, sound, etc.) into electrical form.

### PHYS 3001 (3CR) ASTROPHYSICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1001 and 1551; 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.

### PHYS 3021 (3CR) LIFE IN THE UNIVERSE

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1001 and at least second-year standing; 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.

### PHYS 3101 (3CR) ELECTRICITY AND MAGNETISM

**Format:** Lecture 3 Hours, Laboratory/Problem Solving 3 Hours

**Prereq:** PHYS 1551, and PHYS/MATH 3451, MATH 2111 and 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.

### PHYS 3201 (3CR) STATISTICAL MECHANICS

**Format:** Lecture 3 Hours

**Prereq:** PHYS 3701 and MATH 2111; or permission of the Department

The conditions under which the Maxwell-Boltzmann distribution, the Bose-Einstein distribution, and the Fermi-Dirac distribution apply are developed. Applications of these distributions to many physical systems are examined in detail.

### PHYS 3321 (3CR) ANALOG ELECTRONICS AND SIGNAL PROCESSING

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1551 and PHYS 2801; or permission of 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.

### PHYS/COMP 3361 (3CR) DIGITAL SIGNAL PROCESSING AND ELECTRONICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** COMP 1631 and PHYS 1551; or permission of the Department

**Note:** This course is cross-listed with COMP 3361 and may therefore count as three credits in either discipline.

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.

### PHYS/MATH 3451 (3CR) METHODS OF MATHEMATICAL PHYSICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** MATH 2111, MATH 2221, PHYS 2251

**Note:** This course is cross-listed with MATH 3451 and may therefore count as three credits in either discipline.

This course provides students with a selection of mathematical skills needed in more advanced physics courses. Frequently utilized mathematical methods in theoretical physics are introduced in close connection to physics applications. The assumptions behind the relevant theorems are mentioned in order to discuss their limitations, however, more rigorous mathematical proofs are not generally covered. Topics include vector and tensor analysis, use of special functions, operators and eigenvalue problems. Fourier analysis, and complex variable techniques in physics. The lab component of the course will use symbolic algebra and numerical software, such as Maple, to solve associated physics problems.

### PHYS 3521 (3CR) PHYSICS OF THE LIVING BODY

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1051 and MATH 1111 and at least second year standing; or permission of Department

**Exclusion:** Any version of PHYS 3521 previously offered under a different title

This course is intended primarily for students in biology and psychology. The course introduces and describes from a physics perspective the many physical processes involving living organisms. Study includes the human body, with examples from other animals given for purposes of comparison. Topics include sound and hearing (including Fourier analysis and resonance), light and vision (including microscopy), electrical pulses, electrocardiac measurement, mechanics of body motion, scaling relations, fluid flow, feedback relationships and thermodynamics.

### PHYS 3581 (3CR) MEDICAL PHYSICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1551 or PHYS 3521 ; or permission of Department

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. The course considers fundamental concepts of ionizing radiation, diagnostic applications of medical physics, and therapeutic applications of medical physics. Topics in the diagnostic area include x-rays, computed tomography, magnetic resonance imaging, positron emission tomography, nuclear medicine and ultrasound. Topics in the therapeutic area include radiation generators, absorbed dose calculations, dose measurement, treatment planning, quality assurance and brachytherapy.

### PHYS 3601 (3CR) FLUID MECHANICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 1551 and MATH 1121; or permission of the Department

The objective of this course is to develop an understanding of fluid properties. Topics include: Fluid properties, static forces in fluids, kinematics and dynamics of flow, Bernoulli's and momentum equations, dimensional analysis and similitude, and flow through pipes.

### PHYS 3701 (3CR) THERMODYNAMICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 2801 and 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.

### PHYS 3751 (3CR) PHYSICS OF ENERGY PRODUCTION AND TRANSFER

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** CHEM 1021, PHYS 1551 and MATH 1121

**Prereq or Coreq:** PHYS 3701 or CHEM 2211; or permission of Department

The goal of this course is to teach aspects of energy harvesting, storage and transmission with particular emphasis on the theory and development of renewable energy resources. The specific technologies considered will vary somewhat according to the interests of the class but will normally include wind power, photovoltaic generation, other forms of solar energy, nuclear fission and fusion energy generation, hydroelectric, combustion based fuel generation, tidal energy and fuel cells.

### PHYS 3811 (3CR) MODERN PHYSICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 2251; or permission of the Department

**Exclusion:** Any version of PHYS 3811 previously offered under a different title

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.

### PHYS 3821 (3CR) QUANTUM MECHANICS I

**Format:** Lecture 3 Hours

**Prereq:** PHYS 3811 and PHYS/MATH 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.

### PHYS 4101 (3CR) ELECTROMAGNETIC THEORY

**Format:** Lecture 3 Hours

**Prereq:** PHYS 2251 or MATH 2121; PHYS 3101; 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.

### PHYS 4201 (3CR) SOLID STATE PHYSICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**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.

### PHYS 4311 (3CR) MODERN OPTICS

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PHYS 2251 and PHYS 2801 and PHYS 3101; or permission of the Department

**Exclusion:** PHYS 4401

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.

### PHYS 4411 (3CR) CLASSICAL MECHANICS AND RELATIVITY

**Format:** Integrated Lecture/Laboratory, 6 Hours

**Prereq:** PHYS 3811 and PHYS/MATH 3451; or permission of Department

**Exclusion:** Any version of PHYS 4411 previously offered under a different title

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.

### PHYS 4831 (3CR) QUANTUM MECHANICS II

**Format:** Lecture 3 Hours

**Prereq:** PHYS 3821 and MATH 2221; or permission of the Department

This course extends the study of principles of quantum mechanics developed in Quantum Mechanics I (PHYS 3821), 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 central force problems, elements of scattering theory, and the addition of quantized angular momenta. The course concludes with aspects of relativistic quantum mechanics, including the Klein-Gordon and Dirac equations, and the evolution of spin from these equations.

### PHYS 4851 (3CR) NUCLEI AND FUNDAMENTAL PARTICLES

**Format:** Lecture 3 Hours

**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.

### PHYS 4911 (3CR) CURRENT TOPICS IN PHYSICS

**Format:** Seminar

**Prereq:** PHYS 3811; or permission of 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.

### PHYS 4950/4951 (6/3CR) SPECIAL TOPICS

**Format:** Independent Study/Term Paper

Students may select up to two three credit courses or one six credit course from topics to be approved by the Department. This choice is normally available only to fourth year Physics students.

### PHYS 4990 (6CR) HONOURS THESIS

**Format:** Independent Study/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.

## POLITICAL SCIENCE

The study of politics has been an integral part of a university education since the philosopher Plato established an academy in classical Greece to teach the "royal art". Political decisions shape the character of our public and private institutions, determine our foreign and domestic policies, and through these, establish our character as a people. As the eighteenth-century writer Jean-Jacques Rousseau observed in a letter "everything is radically connected with politics."

At Mount Allison, courses in Political Science fall into four sub-disciplines: Political Theory, Canadian Politics, Comparative Politics, and International Politics. The department offers a range of courses in each of these sub-disciplines. As a small department we also encourage students to develop more specialized interests by taking related courses in other disciplines and by taking advantage of the Directed Readings course offered to senior students with high academic standing.

Political Science 1001 is the introductory political science course and is the normal prerequisite for all of the second year Political Science courses. Students should consult the program advisor for additional information.

### Disciplinary B.A. Programs

**MINOR in Political Science is 24 credits earned as follows:**

- 3 from POLS 1001
- 21 from Political Science 2/3/4000 level, including at least 6 credits from 3/4000 level courses

**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 in Political Science is 72 credits earned as follows:**

- 60 credits as in the Major, plus:
- 12 from Political Science at the 3/4000 level, chosen in consultation with the Program Advisor. 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)

## POLITICAL 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 or Program Co-ordinator must be obtained.

### POLS 1001 (3CR) FOUNDATIONS OF POLITICS

**Format:** Lecture 3 Hours

**Exclusion:** POLS 1000

This course is an introduction to the foundations of politics through the medium of political theory, Canadian politics, comparative politics, or international politics.

### POLS 2001 (3CR) DEMOCRATIC THOUGHT

**Format:** Lecture 3 Hours

**Prereq:** POLS 1000 or 1001; or permission of the Department

**Exclusion:** Any version of POLS 2001 previously offered with a different title

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.

### POLS 2101 (3CR) CANADIAN GOVERNMENT AND POLITICS

**Format:** Lecture 3 Hours

**Prereq:** POLS 1000 or 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.

### POLS 2201 (3CR) GOVERNMENT OF THE U.S.A.

**Format:** Lecture 3 Hours

**Prereq:** POLS 1000 or 1001; or permission of the Department

This course is a study of political institutions and practices in the United States of America.

### POLS 2211 (3CR) CANADA AND THE WORLD

**Format:** Lecture 3 Hours

**Prereq:** POLS 1000 or 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.

### POLS/INLR 2301 (3CR) TOPICS IN INTERNATIONAL RELATIONS

**Format:** Lecture 3 Hours

**Prereq:** POLS 1000 or 1001; or permission of the Department

**Note:** This course is cross-listed as INLR 2301 and may count as 3 credits in either discipline.

This course is a study of the major issues and themes in international relations, including the nature of war and the conditions of peace.

### POLS 3001 (3CR) ANCIENT POLITICAL THOUGHT

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science at the 2000 level, or POLS 1000; or permission of the Department

**Exclusion:** Any version of POLS 3001 previously offered with a different title

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.

### POLS 3011 (3CR) MODERN POLITICAL THOUGHT

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science at the 2000 level, or POLS 1000; or permission of the Department

**Exclusion:** Any version of POLS 3011 previously offered with a different title

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.

### POLS 3021 (3CR) SOCIALIST THOUGHT

**Format:** Lecture 3 Hours

**Prereq:** Three credits from POLS 2001 or 3011; or permission of the Department

This course examines the socialist tradition from Marx to the present, with particular emphasis on the relationship between theory and practice in the writings of Lukács, Gramsci, and the Frankfurt School. It also considers the recent challenges of feminism and postmodernism.

### POLS 3031 (3CR) WOMEN AND POLITICS

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science 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.

**POLS 3081/3181/3281/3381 (3CR)**  
**INTERMEDIATE SELECTED TOPICS IN POLITICAL SCIENCE**

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science at the 2000 level; or permission of the Department

This is an intermediate course which focuses on topics not covered by current course offerings in Political Science, or topics not covered in depth in the courses offered.

**POLS 3101 (3CR)**  
**POLITICAL LEADERSHIP IN CANADA**

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science at the 2000 level or POLS 1000; 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.

**POLS 3111 (3CR)**  
**CANADIAN FEDERALISM AND INTERGOVERNMENTAL RELATIONS**

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science at the 2000 level, or POLS 1000; or permission of the Department

**Exclusion:** Any version of POLS 3111 previously offered with a different title

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.

**POLS 3121 (3CR)**  
**CANADIAN ELECTORAL STUDIES**

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Political Science at the 2000 level, or POLS 1000; or permission of the Department

This course is a study of Canadian elections and the Canadian electoral system. Its topics include an examination of how rules shape electoral competition; the role of the media in election campaigns; obstacles facing women candidates; and whether elections provide governments with mandates.

**POLS 3200 (6CR)**  
**EUROPEAN POLITICS**

**Format:** Lecture 3 Hours

**Prereq:** POLS 2211; or permission of the Department

This course is a comparative analysis of government and politics with particular emphasis on Europe's role in a changing geopolitical order.

**POLS 3310 (6CR)**  
**STRATEGIC STUDIES**

**Format:** Lecture 3 Hours

**Prereq:** POLS 2211 and 2301; or POLS 1000; or permission of the Department

This course is an analysis of strategic thought in the nineteenth and twentieth centuries, with particular reference to the ideas of Karl von Clausewitz and their relevance to the nuclear era.

**POLS/HIST 3731 (3CR)**  
**JAPAN IN THE MODERN WORLD**

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department

**Exclusion:** HIST/POLS 3321

**Note:** This course is cross-listed as HIST 3731 and may therefore count as three credits in either discipline.

This course will examine Japan's relations with the international community in the years following renewed contact with the West in the 1860's. Particular emphasis will be placed on the expanding intellectual, diplomatic and economic interchange and the impact of that interchange on the shaping of modern Japan.

**POLS 4000 (6CR)**  
**PROBLEMS IN THE HISTORY OF POLITICAL THOUGHT**

**Format:** Seminar 3 Hours

**Prereq:** Three credits from POLS 3001, 3011 or 3021; or permission of the Department

**Exclusion:** Any version of POLS 4000 previously offered with a different title

This course examines a selected problem in the history of political thought.

**POLS 4001 (3CR)**  
**FEMINIST POLITICAL THOUGHT**

**Format:** Seminar 3 Hours

**Prereq:** Three credits from POLS 3001, 3011 or 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.

**POLS 4011 (3CR)**  
**LIBERAL DEMOCRACY AND ITS DISCONTENTS**

**Format:** Seminar 3 Hours

**Prereq:** Three credits from POLS 3001 or 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.

**POLS 4100 (6CR)**  
**POLITICAL PARTIES AND INTEREST GROUPS**

**Format:** Seminar 3 Hours

**Prereq:** Three credits from POLS 3101, 3111 and 3121 or POLS 3100; or permission of the Department

An examination of political parties, party systems, and interest groups, primarily from a Canadian perspective. Topics covered include: a review of the principal models of political parties; the organization, character and functions of parties; the development of party systems; and, the development and role of interest groups.

**POLS 4131 (3CR)**  
**CANADIAN POLITICAL PARTIES**

**Format:** Seminar 3 Hours

**Prereq:** Three credits from POLS 3101, 3111 and 3121 or POLS 3100; or permission of the Department

**Exclusion:** POLS 4100

This course is an examination of political parties primarily from a Canadian perspective. Its topics include the principal models of political parties, the organization, character and functions of parties, and the development of party systems.

**POLS 4141 (3CR)**  
**INTEREST GROUPS AND SOCIAL MOVEMENTS IN CANADA**

**Format:** Seminar 3 Hours

**Prereq:** Three credits from POLS 3101, 3111 and 3121 or POLS 3100; or permission of the Department

**Exclusion:** POLS 4100

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.

**POLS 4200 (6CR)**  
**POLITICAL AND CULTURAL CHANGE: A COMPARATIVE ANALYSIS OF NORTH AMERICA AND EUROPE**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** Three credits in Political Science at the 2000 or 3000 level; or permission of the Department

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.

**POLS 4211 (3CR)**  
**POLITICS AND LITERATURE**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** Three credits in Political Science at the 2000 or 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.

**POLS 4300 (6CR)**  
**CANADIAN FOREIGN POLICY**

**Format:** Lecture 3 Hours

**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.

**POLS 4700/4701 (6/3CR)**  
**SPECIAL TOPICS**

**Format:** Lecture/Seminar 3 Hours

**Prereq:** Permission of the Department

A seminar/tutorial open to senior students in an advanced research area of political science. Course content and requirements will be set by individual instructors.

**POLS 4950 (6CR)**  
**DIRECTED READING ON SPECIAL TOPICS**

**Format:** Directed Readings

**Prereq:** Permission of the Department

This course permits a senior student, under the direction of one faculty member, to pursue a program of independent reading or study.

Normally, only students with a minimum average of B in their previous years of study at the University are eligible to register for this course.

## 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

**Plus**, 18 credits from complementary courses in, for example, Biology, English, History, Mathematics & Computer Science, Philosophy, Sociology, Anthropology, Canadian Studies, or Modern Languages, chosen in consultation with the Program Advisor

**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:

- 3 from PHYS 1051
- 3 from PHYS 1551, 3521
- 6 from CHEM 1001, 1021
- 6 three from MATH 1111, and three other credits from Mathematics or Computer Science selected from MATH 1121, 1131, 1251, 2211, 2221, 2311, or COMP 1631

**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.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 or Program Co-ordinator must be obtained.

### PSYC 1001 (3CR) INTRODUCTION TO PSYCHOLOGY I

**Format:** Lecture 3 Hours

**Prereq:** None

**Note:** 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)

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.

### PSYC 1011 (3CR) INTRODUCTION TO PSYCHOLOGY II

**Format:** Lecture 3 Hours

**Note:** 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)

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.

### PSYC 2001 (3CR) RESEARCH DESIGN AND ANALYSIS I

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 1001 and PSYC 1011 and at least second-year standing; or permission of the Department

**Note:** Students may count for credit toward a degree a maximum of six credits from BIOL 2701, GENS 2431, MATH 2311, and PSYC 2001. 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.

### PSYC 2011 (3CR) RESEARCH DESIGN AND ANALYSIS II

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 1001 and 1011, and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 2101 (Research Design and Analysis)

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.

### PSYC 2101 (3CR) BIOPSYCHOLOGY

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 2051

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.

### PSYC 2121 (3CR) BEHAVIOUR MODIFICATION

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 2011 (Learning and Memory)

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.

### PSYC 2201 (3CR) COGNITIVE PROCESSES

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 3021 (Cognition)

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.

### PSYC 2301 (3CR) SOCIAL PSYCHOLOGY

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 3081

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.

### **PSYC 2431 (3CR)** **CHILD AND ADOLESCENT DEVELOPMENT**

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 2401 and PSYC 2411

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.

### **PSYC 2601 (3CR)** **PSYCHOLOGY OF ABNORMAL BEHAVIOUR**

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 3061

This course will present an overview of psychological disorders: their biological and social origins, classification, symptoms and common treatments.

### **PSYC 2611 (3CR)** **HEALTH PSYCHOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and PSYC 1011 and at least second-year standing; 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.

### **PSYC 2701 (3CR)** **PERSONALITY**

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least second-year standing; or permission of the Department

**Exclusion:** PSYC 3071

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.

### **PSYC 3001 (3CR)** **ADVANCED DESIGN AND ANALYSIS**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PSYC 1001, 1011, 2001 and 2011, plus at least third-year standing; 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.

### **PSYC 3021 (3CR)** **PSYCHOLOGICAL MEASUREMENT AND INDIVIDUAL DIFFERENCES**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department. PSYC 2001 and 2011 strongly recommended as additional prerequisites

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.

### **PSYC 3101 (3CR)** **HUMAN NEUROPSYCHOLOGY**

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 2101 plus at least third-year standing; or permission of the Department; PSYC 2001 and 2011 strongly recommended as additional prerequisites

**Exclusion:** PSYC 3051

This lecture and laboratory course examines the structure and functions of the cerebral cortex. Topics will 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.

### **PSYC 3111 (3CR)** **CONDITIONING**

**Format:** Lecture 3 Hours, Laboratory 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department. PSYC 2001 and 2011 strongly recommended as additional prerequisites

**Exclusion:** PSYC 3011 (Conditioning)

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.

### **PSYC 3151 (3CR)** **DRUGS AND BEHAVIOUR**

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department

**Exclusion:** PSYC 2111

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.

**PSYC 3201 (3CR)****MEMORY****Format:** Lecture 3 Hours, Laboratory 1.5 Hours**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; 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.

**PSYC 3211 (3CR)****SENSATION AND PERCEPTION****Format:** Lecture 3 Hours, Laboratory 1 Hour**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department**Exclusion:** PSYC 3121 (Sensation and Perception)

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.

**PSYC 3221 (3CR)****PSYCHOLINGUISTICS****Format:** Lecture 3 Hours, Laboratory 1 Hour**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department**Exclusion:** PSYC 3141

This lecture and laboratory course will describe our present state of knowledge concerning the mechanisms underlying the production, comprehension, and use of language.

**PSYC 3301 (3CR)****INTERPERSONAL RELATIONS****Format:** Lecture 3 Hours**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; 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.

**PSYC 3401 (3CR)****LANGUAGE DEVELOPMENT IN CHILDREN****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department**Exclusion:** PSYC 3131 (Processes of Psychological Development)

This lecture and laboratory course will examine the development of language. The precursors of language in the neonate; phonological, semantic, syntactic and pragmatic development will be covered as well as theories of language acquisition.

**PSYC 3411 (3CR)****COGNITIVE DEVELOPMENT****Format:** Lecture 3 Hours, Laboratory 3 Hours**Prereq:** PSYC 2401 or PSYC 2431 plus at least third-year standing; or permission of the Department

This lecture and laboratory course will examine theories and research methods of developmental psychology, with a focus on research and findings in cognitive development in infancy, childhood and adolescence. Included are theories of how infants and children discover and understand the world, remember information, and solve problems.

**PSYC 3421 (3CR)****ADULTHOOD AND AGING****Format:** Lecture 3 Hours**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department**Exclusion:** PSYC 2421

This course is an overview of social, cognitive, and biological development during early, middle, and late adulthood. Some of the topics covered include career development, menopause, bereavement, late-life changes in memory and sensory processes, and relationships between adults and their parents.

**PSYC 3501 (3CR)****SELECTED TOPICS****Format:** Lecture 3 Hours**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department

This course will allow topics not covered by the current course offerings to be occasionally presented. The course content and format will vary depending on the particular area of Psychology to be covered.

### PSYC 3511 (3CR) PSYCHOLOGY OF WOMEN

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department. Students with a declared minor in Women's Studies, PSYC 1001 and 1011 and at least 3rd year standing can take the Psychology of Women course.

**Exclusion:** PSYC 2501

This course systematically reviews psychological theories and research findings about women's development. Topics include biological effects on gender development, gender roles, health and reproduction, personality and social interaction, work, sexuality, violence in women's lives, and mental health. The ways that race, ethnicity, class, physical ability, sexual orientation, and age modify women's experience are also considered.

### PSYC 3801 (3CR) EDUCATIONAL PSYCHOLOGY

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; 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.

### PSYC 3811 (3CR) DISORDERS OF LEARNING

**Format:** Lecture 3 Hours, Laboratory 1 Hour

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department

A lecture and laboratory course which will examine the application of scientific findings in psychology to our understanding of disorders of learning. It will apply knowledge in the fields of cognitive science (memory, attention, etc.), neuropsychology, and learning theory to the field of learning disabilities/dyslexia.

### PSYC 3901 (3CR) HISTORY OF PSYCHOLOGY

**Format:** Lecture 3 Hours

**Prereq:** PSYC 1001 and 1011 and at least 2 courses in Psychology at the 2000 level plus at least third-year standing; or permission of the Department

**Exclusion:** PSYC 3091

A course of lectures and seminars surveying the philosophical roots of scientific psychology, placing the problems and concepts of contemporary psychology in a historical context. The course covers the development of psychology from antiquity to the twentieth century.

### PSYC 4101 (3CR) ADVANCED TOPICS IN BEHAVIOURAL NEUROSCIENCE

**Format:** Seminar 3 Hours

**Prereq:** PSYC 2101; at least two courses in Psychology at the 3000 level plus at least third-year standing; or permission of the Department  
Advanced seminar on the relation between brain and behaviour.

### PSYC 4111 (3CR) ADVANCED TOPICS IN CONDITIONING

**Format:** Seminar 3 Hours

**Prereq:** PSYC 3111; at least one other course in Psychology at the 3000 level plus at least third-year standing; or permission of the Department  
Advanced seminars on Pavlovian conditioning, operant conditioning and other forms of learning in animals and people.

### PSYC 4201 (3CR) ADVANCED TOPICS IN COGNITION

**Format:** Seminar 3 Hours

**Prereq:** PSYC 2201; at least two courses in Psychology at the 3000 level plus at least third-year standing; or permission of the Department  
Advanced seminars on subjects of current theoretical interest in the psychology of attention, memory and thought.

### PSYC 4301 (3CR) ADVANCED TOPICS IN SOCIAL PSYCHOLOGY

**Format:** Seminar 3 Hours

**Prereq:** PSYC 2301; at least two courses in Psychology at the 3000 level plus at least third-year standing; or permission of the Department  
An advanced seminar on selected topics of current theoretical interest in the study of social behaviour.

### PSYC 4401 (3CR) ADVANCED TOPICS IN DEVELOPMENTAL PSYCHOLOGY

**Format:** Seminar 3 Hours

**Prereq:** One from PSYC 2401, 2411, 2431, 3421; at least 2 courses in Psychology at the 3000 level plus at least third-year standing; 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.

### PSYC 4411 (3CR) ADVANCED TOPICS IN ADULTHOOD AND AGING

**Format:** Seminar 3 Hours

**Prereq:** PSYC 2421 or PSYC 3421 and at least 2 courses in Psychology at the 3000 level plus at least third-year standing; 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.

### PSYC 4501 (3CR) SELECTED TOPICS

**Format:** Seminar 3 Hours

**Prereq:** At least two courses in Psychology at the 3000 level plus third-year standing; and permission of the Department

A senior seminar course devoted to topics in Psychology not covered by our current course offerings. Students may take the course more than once if substantially different topics are covered.

### PSYC 4601 (3CR) ADVANCED TOPICS IN PSYCHOPATHOLOGY

**Format:** Seminar 3 Hours

**Prereq:** PSYC 2601; at least two courses in Psychology at the 3000 level plus at least third-year standing; 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.

### PSYC 4701 (3CR) ADVANCED TOPICS IN PERSONALITY

**Format:** Seminar 3 Hours

**Prereq:** PSYC 2701; at least two courses in Psychology at the 3000 level plus at least third-year standing; 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.

### PSYC 4903 (3CR) HONOURS SEMINAR

**Format:** Seminar 2 Hours

**Coreq:** PSYC 4990; or permission of the Department

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.

### PSYC 4950/4951 (6/3CR) DIRECTED STUDY ON SPECIAL TOPICS

**Format:** Independent Study

The course is intended to enable advanced students to pursue their interests in areas not covered by other classes offered at the 4000 level. Students must consult with the faculty member whom they wish to supervise their work, and obtain his or her consent, before attempting to register for this course. The prerequisites (or corequisites) will be determined by the nature of the work the student wishes to do.

### PSYC 4990 (6CR) HONOURS THESIS

**Format:** Independent Study/Thesis

**Prereq:** PSYC 2011; or permission of the Department

The senior thesis will involve an experimental research project carried out in close consultation with a member of the Department.

## 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

- 6 RELG 2401 and 2801
- 3 RELG 3901
- 6 from RELG 3001, 3101
- 6 from RELG 3501, 3601, or 3701
- 15 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 further 2000 level Religious Studies courses, 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 or Program Co-ordinator must be obtained.

#### **RELG 1641 (3CR) RELIGIOUS PERSPECTIVES ON THE BODY AND SEXUALITY**

**Format:** Lecture 3 Hours

This course examines cross-cultural reflections on the human body and sexuality. The course will begin by situating these topics within the larger worldview of each tradition. In addition, it will examine issues of bodily functions, gender roles, sexual orientation, and related topics.

#### **RELG 1651 (3CR) CONTEMPORARY MYTHS**

**Format:** Lecture 3 Hours

This course identifies and explores some of the most prominent of the myths that shape our perspectives on life and set our priorities for living. The kind of myths that will be considered are: a science myth, a sports myth, a sex myth, a society myth, a consumer myth, an ecology myth, and a religion myth.

#### **RELG 1661 (3CR) RELIGION AND POPULAR CULTURE**

**Format:** Lecture 3 Hours

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.

#### **RELG 1671 (3CR) SACRED SPACE AND HOLY LAND**

**Format:** Lecture 3 Hours

**Exclusion:** RELG 1671 (Sacred Space and Pilgrimage)

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.

#### **RELG 2401 (3CR) INTRODUCTION TO EASTERN RELIGIONS**

**Format:** Lecture 3 Hours

**Exclusion:** RELG 2211

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.

#### **RELG 2801 (3CR) INTRODUCTION TO WESTERN RELIGIONS**

**Format:** Lecture 3 Hours

**Exclusion:** RELG 2201

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.

#### **RELG 2811 (3CR) INTRODUCTION TO THE BIBLE I: HEBREW BIBLE**

**Format:** Lecture 3 Hours

**Exclusion:** RELG 2001

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.

#### **RELG 2821 (3CR) INTRODUCTION TO THE BIBLE II: NEW TESTAMENT**

**Format:** Lecture 3 Hours

**Exclusion:** RELG 2011

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.

#### **RELG 2831 (3CR) FAITH AND DOUBT**

**Format:** Lecture 3 Hours

**Exclusion:** RELG 2501

Consideration of western theism in terms of possibilities and forms of religious knowledge, rationality of belief in God, the challenge of the problem of evil, and the nature and significance of religion.

### RELG 2841 (3CR) THE APOCALYPTIC CONSCIOUSNESS

**Format:** Lecture 3 Hours

**Exclusion:** RELG 2031

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.

### RELG 3001 (3CR) HINDUISM

**Format:** Lecture 3 Hours

**Prereq:** RELG 2401; or permission of the Department

**Exclusion:** RELG 3261

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.

### RELG 3101 (3CR) BUDDHISM

**Format:** Lecture 3 Hours

**Prereq:** RELG 2401; or permission of the Department

**Exclusion:** RELG 3271

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.

### RELG 3301 (3CR) RELIGIONS OF CHINA

**Format:** Lecture 3 Hours

**Prereq:** RELG 2401; 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.

### RELG 3311 (3CR) RELIGIONS OF JAPAN

**Format:** Lecture 3 Hours

**Prereq:** RELG 2401; 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.

### RELG 3411 (3CR) GENDER ISSUES IN EASTERN RELIGIONS

**Format:** Seminar 2 Hours

**Prereq:** RELG 2401; or permission of the Department

**Exclusion:** RELG 3900, 4280

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. Attention will be paid to 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.

### RELG/HIST 3481 (3CR) RELIGION IN CANADA

**Format:** Lecture 3 Hours

**Prereq:** Second-year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

**Note:** This course is cross-listed as HIST 3481 and may therefore count as 3 credits in either discipline.

This course surveys the history of religion in Canada from the pre-European period to the 1980s. It focuses on religious traditions which 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.

### RELG 3501 (3CR) JUDAISM

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801, or 2811; or permission of the Department

**Exclusion:** RELG 3241

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.

### RELG 3601 (3CR) CHRISTIANITY

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801 or 2831; or permission of the Department

**Exclusion:** RELG 2511

A consideration of the central beliefs and forms of the Christian tradition in terms of their origins and relevance for today.

**RELG/HIST 3611 (3CR)**  
**CHRISTIANITY IN THE ROMAN EMPIRE**

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801 or 2821 or 3601 or third or fourth year History Major; or permission of the Department

**Exclusion:** RELG 3601

**Note:** This course is cross-listed as HIST 3611 and may therefore count as three credits in either discipline.

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) and the Roman Empire. Early Christianity is analyzed as a social movement, as a religious movement with a developing belief system, and as an historical phenomenon embedded within historical events and processes.

**RELG/HIST 3621 (3CR)**  
**CHRISTIANITY IN CHRISTENDOM**

**Format:** Lecture 3 Hours

**Prereq:** RELG 3601 or 3611 or third or fourth year History Major; or permission of the Department

**Exclusion:** RELG 3620

**Note:** This course is cross-listed as HIST 3621 and may therefore count as three credits in either discipline.

A consideration of Christianity at the height of its political power in the middle ages.

**RELG/HIST 3631 (3CR)**  
**CHRISTIANITY IN THE REFORMATION ERA**

**Format:** Seminar 2 Hours

**Prereq:** RELG 3601 or 3611 or 3621 or third or fourth year History Major; or permission of the Department

**Note:** This course is cross-listed as HIST 3631 and may therefore count as three credits in either discipline.

A consideration of the reasons for and impact of the divisions in Christianity instituted by the Protestant Reformation.

**RELG/HIST 3641 (3CR)**  
**CHRISTIANITY AND MODERN STATES**

**Format:** Seminar 2 Hours

**Prereq:** RELG 3601 or 3611 or 3621 or third or fourth year History Major; or permission of the Department

**Exclusion:** RELG/HIST 3641 (The Modern Church)

**Note:** This course is cross-listed as HIST 3641 and may therefore count as three credits in either discipline.

A consideration of how secularization has occurred in various modern states and of the sphere of influence that remains for religion in these circumstances.

**RELG 3661 (3CR)**  
**THE CHRISTIAN TRADITION AND THE UNIVERSITY**

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801 or 3601; or permission of the Department

**Exclusion:** RELG 2601

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.

**RELG 3701 (3CR)**  
**ISLAM**

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801; or permission of the Department

**Exclusion:** RELG 3291

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.

**RELG 3811 (3CR)**  
**GENDER ISSUES IN WESTERN RELIGIONS**

**Format:** Seminar 2 Hours

**Prereq:** RELG 2801; or permission of the Department

**Exclusion:** RELG 3900, 4280

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. Attention will be paid to 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.

**RELG/PHIL 3891 (3CR)**  
**INDIAN PHILOSOPHY**

**Format:** Lecture 3 Hours

**Prereq:** Six credits in Philosophy; or permission of the Department

**Note:** This course is cross-listed as PHIL 3891 and may therefore count as three credits in either discipline.

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.

### RELG 3901 (3CR) THEMES AND THEORIES IN RELIGIOUS STUDIES

**Format:** Lecture 3 Hours

**Prereq:** RELG 2401, 2801; or, permission of the Department. This is a required course for all Majors and Honours students in Religious Studies, and is recommended for those taking a Minor.

This course examines various kinds of religious phenomena, including mystical experience, sacred texts, religious ethics, and ritual, and explores the different ways they are understood and interpreted in the discipline of Religious Studies. Major theoretical approaches, including text-historical, phenomenological, gender-critical, philosophical, cultural-critical, are explored and critically assessed for their value in the study of religion.

### RELG 3911 (3CR) CONTEMPORARY ETHICAL ISSUES (WESTERN)

**Format:** Seminar 2 Hours

**Prereq:** RELG 2801 or 3601 or PHIL 2701; or permission of the Department

**Exclusion:** RELG 3541

A consideration of the nature of ethics will be followed by exploration of some of the most prominent contemporary ethical issues, such as abortion, euthanasia, ecology, gay rights, racism, and sexism.

### RELG 3921 (3CR) EASTERN RELIGIONS AND CONTEMPORARY ETHICAL ISSUES

**Format:** Seminar 2 Hours

**Prereq:** RELG 2401; or permission of the Department

A discussion of the Eastern Traditions' responses to contemporary ethical issues, such as those of abortion, euthanasia, ecology, and bio-medical technologies. The course will look at both classical and contemporary perspectives.

### RELG 3931 (3CR) THE BIBLE AND THE ARTS

**Format:** Lecture 3 Hours

**Prereq:** RELG 2801 or 2811 or 2821; 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.

### RELG 3941 (3CR) RELIGION, REVOLUTION AND VIOLENCE

**Format:** Lecture 2 Hours

**Prereq:** RELG 2401 and 2801; or permission of the Department

**Exclusion:** RELG 3231

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.

### RELG 3951 (3CR) ETHICS IN BUSINESS

**Format:** Lecture 3 Hours

**Prereq:** Open to third and fourth year students; or permission of the Department

**Exclusion:** RELG 3550

A consideration of how ethics is and may be involved in business practice for individuals and corporations.

### RELG 3961 (3CR) ETHICS IN BUSINESS CULTURE

**Format:** Lecture 3 Hours

**Prereq:** Open to third and fourth year students; or permission of the Department

**Exclusion:** RELG 3550

A consideration of the challenges posed for business ethics by the power of the limited liability corporation and its expansion into the transnational corporation and the global economy as reflected in the World Trade Organization.

### RELG 3971 (3CR) RELIGION IN FILM

**Format:** Lecture 2 Hours, Laboratory 2.5 Hours

**Prereq:** RELG 2401 and 2801; or permission of the Department (RELG 2811 and 2821 are also strongly recommended)

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.

### RELG 3981 (3CR) RELIGIOUS ETHICS AND THE ENVIRONMENT

**Format:** Seminar 2 Hours

**Prereq:** RELG 2401; or permission of the Department

What role does religion play in our interaction with the environment? This course examines various religious perspectives on nature and environmental ethics. Focusing primarily on Eastern traditions, the course begins by reviewing the concept and place of nature in various religions, and then critically examines scholarship which applies religious perspectives to issues in environmental ethics. We will also consider the religious basis of certain environmental thinkers and movements.

### RELG 4401 (3CR) HINDUISM AND BUDDHISM IN LITERATURE

**Format:** Seminar 2 Hours

**Prereq:** RELG 3001 or 3101; or permission of the Department

A seminar-style course treating several genres of Hindu and Buddhist literature. The course will begin with a study of classical texts, such as the Hindu epics and the Buddhist canon, and will conclude with a discussion of contemporary literary works.

**RELG 4411 (3CR)**  
**ADVANCED STUDIES IN EASTERN THOUGHT**

**Format:** Seminar 2 Hours

**Prereq:** RELG 3001 or 3101; or permission of the Department

A seminar-style course on Eastern philosophies, focusing on the traditions of Hinduism and Buddhism. The course will examine both classical systems of thought and their modern interpretations.

**RELG 4421 (3CR)**  
**EASTERN RELIGIONS AND THE CHALLENGE OF MODERNITY**

**Format:** Seminar 2 Hours

**Prereq:** RELG 2401 and either 3001 or 3101; or permission of the Department

A senior-level course studying the contemporary state of Eastern Religions. The course will discuss the recent histories of the Eastern Religions, looking at the challenges of science, the impact of colonialism, movements of political independence, and issues of poverty and social justice. It will particularly study these traditions' encounter with the West, and their responses to the cultural exchange that ensues from this encounter.

**RELG 4601 (3CR)**  
**RECENT CHRISTIAN THOUGHT**

**Format:** Seminar 2 Hours

**Prereq:** RELG 3601; or permission of the Department

**Exclusion:** RELG 3531

Consideration of influential directions in recent theology with focus on approaches such as secular theologies, political theologies, liberationist theologies, feminist theologies, environmental theologies, process theologies, and post-modern theologies.

**RELG 4801 (3CR)**  
**MODERN WESTERN CRITIQUES OF RELIGION**

**Format:** Seminar 2 Hours

**Prereq:** RELG 2831; or permission of the Department

**Exclusion:** RELG 3521

Consideration of challenges to religion by prominent modern thinkers such as Hume, Kant, Hegel, Marx, Feuerbach, Darwin and Nietzsche.

**RELG 4821 (3CR)**  
**SACRED TEXTS IN WESTERN RELIGIONS**

**Format:** Seminar 2 Hours

**Prereq:** RELG 2811 or 2821, and one of 3501, 3601, or 3701; or permission of the Department

**Exclusion:** RELG 3251

This course examines the phenomena of "sacred text" (scripture) and "sacred tradition" within Judaism (Torah), Christianity (New Testament), and Islam (Quran). The course addresses questions of the origin of sacred texts and how they nourish the religious, cultural, and social life of a community. It explores how diverse Jewish, Christian, and Muslim communities at different periods in their histories have made fresh appropriations of the scriptural tradition through various strategies of interpretation.

**RELG 4841 (3CR)**  
**SEXUALITY AND THE BIBLICAL TRADITION**

**Format:** Seminar 2 Hours

**Prereq:** RELG 2811 and 2821; or permission of the Department

This course will focus on the history of sexuality in the biblical and post-biblical traditions. The course examines, first, the Bible's treatment of the subject of sex (including bodily purity, reproduction and sexual orientation) through the close reading of biblical texts. It then looks at the Bible's influence on this subject in the history of Judaism and Christianity, and, finally, in the modern, secular era.

**RELG 4950/4951 (6/3CR)**  
**DIRECTED STUDY ON SPECIAL TOPICS**

**Format:** Independent Study

**Prereq:** Permission of the Department

Independent reading and study under the direction of a member of the Department.

**RELG 4990 (6CR)**  
**HONOURS THESIS**

**Format:** Independent Study/Thesis

**Prereq:** Permission of the Department

Independent research and thesis writing under the direction of a member of the Department, for students in the Religious Studies Honours program.

## 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 or Program Co-ordinator must be obtained.

#### SCIE 1001 (3CR)

#### CONTEMPORARY TOPICS IN SCIENCE

**Format:** Lecture 3 Hours, Tutorial 1.5 Hours

**Prereq:** Permission of Instructor

**Exclusion:** 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.

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.

## 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:

- 3 from SOCI 1001
- 3 from a Social Science department/program other than Sociology
- 3 from SOCI 3001,3301
- 15 from Sociology at the 2/3/4000 level

#### MAJOR in Sociology is 60 credits earned as follows:

- 3 from SOCI 1001
- 6 from a Social Science department/program other than Sociology
- 9 from SOCI 3001, 3011, 3301
- 24 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 chosen in consultation with the Program Advisor

#### HONOURS in Sociology (Thesis Option) is 66 credits earned as follows:

- 18 credits as in the first three lines of the Major, plus:
- 24 from Sociology at the 2/3000 level chosen in consultation with the Program Advisor
- 18 from Sociology at the 3/4000 level
- 6 from SOCI 4990

#### HONOURS in Sociology (Course Option) is 66 credits earned as follows:

- 18 credits as in the first three lines of the Major, plus:
- 9 from Sociology at the 2000 level
- 39 from Sociology at the 3/4000 level, including at least 12 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 or Program Co-ordinator must be obtained.

### **SOCI 1001 (3CR)** **INTRODUCTION TO SOCIOLOGY**

**Format:** Lecture 3 Hours

**Exclusion:** SOAN 1001

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.

### **SOCI 2201 (3CR)** **PRIMARY AND SECONDARY SOCIALIZATION**

**Format:** Lecture 3 Hours

**Prereq:** SOCI 1001 and 3 credits in the Social Sciences; or permission of the Department

**Exclusion:** SOAN 2201; SOCI 3201

This course centres on the relationship between the individual and society. This fundamental sociological theme is considered, mainly using the symbolic interactionist perspective on socialization as a life-long process of learning, with continual implications for identity. The differences between primary and secondary socialization will be a theme recurring throughout the course.

### **SOCI 2211 (3CR)** **GENDER RELATIONS**

**Format:** Lecture 3 Hours

**Prereq:** SOCI 1001 and 3 credits in the Social Sciences; or permission of the Department

**Exclusion:** SOAN 2211; SOCI 3211

An introduction to the study of gender through an examination of the nature of gender relations. Major theories of the origin and consequences of gender inequality will also be considered. Issues such as reproduction, work, law, violence, and racism are addressed, using cross-cultural examples.

### **SOCI 2531 (3CR)** **EDUCATION AND SOCIETY**

**Format:** Lecture 3 Hours

**Prereq:** SOCI 1001 and 3 credits in the Social Sciences; or permission of the Department

**Exclusion:** SOAN/SOCI 4531

This course explores the sociology of education in Canada. Topics covered include educational credentialism; education and social mobility; access to post-secondary education; the increasing significance of professionalism; educational institutions; and educational subcultures.

### **SOCI 3001 (3CR)** **THEORETICAL FOUNDATIONS OF SOCIOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** SOCI 1001, and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3001

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.

### **SOCI 3011 (3CR)** **CONTEMPORARY SOCIOLOGICAL THEORY**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** SOCI 1001, 3001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3011

An overview of concepts, theoretical issues, and debates in recent sociological theory. The course 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.

### **SOCI 3111 (3CR)** **INEQUALITY IN CANADIAN SOCIETY**

**Format:** Lecture/Student Presentations 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3111

An analysis of social inequality in Canada, past and present. Such topics as the development of the Canadian class structure, income distribution, social mobility, educational opportunity, life chance differentials, gender inequality, ethnic inequality and class consciousness will be discussed.

### **SOCI 3121 (3CR)** **LANGUAGE AND ETHNICITY IN CANADA**

**Format:** Lecture/Student Presentations 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3121

An analysis of the official linguistic duality and ethnic plurality of Canadian society. Focus will fall on the nature of these two fundamental features of the society, and on their cause and consequence. Consideration will also be given to regional variations within Canada as well as to comparisons with other societies. Particular attention will be paid to understanding the social-psychological, structural, and cultural consequences of linguistic and ethnic diversity within Canadian society.

### **SOCI 3221 (3CR)** **WORK AND SOCIETY**

**Format:** Lecture/Group Work/Student Presentations 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** None

In this course, the nature and meaning of work in relation to changes in the position of the professions, unions, government, women and minority groups, in industrial and post-industrial societies will be examined. The course will also include 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 will be located in broader international trends and processes.

**SOCI 3301 (3CR)**  
**SOCIOLOGICAL RESEARCH METHODS**

**Format:** Lecture/Group Projects/Laboratory 3 Hours

**Prereq:** SOCI 1001, and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3301

This is a course in sociological research methodology, including a consideration of questions of social epistemology and research design. Students will gain practical experience in doing social research through the conducting of surveys, participant observation, content analysis, case studies, and other techniques.

**SOCI 3331 (3CR)**  
**FIELD COURSE IN SOCIOLOGY**

**Format:** Lecture 3 Hours

**Prereq:** Permission of the Department

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 normal term time, but is available to students through Continuous Learning. Completion of SOCI 3301 (Sociological Research Methods) is recommended before registering for this course.

**SOCI 3431 (3CR)**  
**CRITICAL MEDIA ANALYSIS**

**Format:** Lecture/Case Studies/Group Projects 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3431

An advanced research course on the media-based control of information and dissemination of ideologies in modern society. The course will examine issues of ownership and control of the media and the social construction of news. Students will examine in detail current theoretical debates in cultural studies and media analysis.

**SOCI 3441 (3CR)**  
**SOCIOLOGY OF KNOWLEDGE**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3441

This course focuses on the relationship between ideas and their social and cultural contexts. The course will critically examine various forms of knowledge, including common sense, scientific knowledge, and feminist epistemology.

**SOCI 3451 (3CR)**  
**DYNAMICS OF POPULAR CULTURE**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3451, 2421

An investigation of the process and forms of contemporary popular culture. Students will be introduced to the major theoretical debates in the field of popular culture. In addition, the course will examine the development of popular cultural expression.

**SOCI 3501 (3CR)**  
**POLITICAL SOCIOLOGY**

**Format:** Lecture/Group Work/Student Presentations 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

This course examines the relationship between society and politics, the interactions between individuals and governments. Processes of nationalism, trans-nationalism and civil society are investigated from a social constructionist perspective and with an awareness of agency and structure. The major dimensions to be explored include: power, state and nationhood; globalization and civil society; and political discourse, rhetoric and rituals. The course will draw on a variety of theoretical perspectives and use Canadian and international examples.

**SOCI 3521 (3CR)**  
**COMMUNITIES**

**Format:** Lecture/Student Presentations 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3521

A review of the sociological literature on rural, small-town, and urban social organization with special emphasis on the notion of "community" in Canadian society.

**SOCI 3631 (3CR)**  
**SOCIOLOGY OF CYBERSPACE**

**Format:** Lecture 3 Hours

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3631

A course in the sociology of cyberspace, considering the social-structural, cultural, and interactional dimensions of cyberspace and the information society. Cyberspace will be treated in the broader context of the role of information in society, and the theories of the relationship between communication technologies and social structures. The usefulness of the term cyberspace as well as its commercial hype and pop cultural status will be examined.

**SOCI 3911 (3CR)**  
**INTERMEDIATE SPECIAL TOPICS IN SOCIOLOGY**

**Format:** Lecture, Seminar Or Independent Study

**Prereq:** SOCI 1001 and 6 credits from 2000 level Sociology; or permission of the Department

**Exclusion:** SOAN 3911

An intermediate course which focuses on topics not covered by current course offerings in Sociology, or topics not covered in depth in the courses offered.

**SOCI 4001 (3CR)**  
**DEVELOPMENTS IN SOCIOLOGICAL THEORY**

**Format:** Seminar 3 Hours

**Prereq:** SOCI 3001, 3011, 3301; or permission of the Department

**Exclusion:** any version of SOCI 4001 previously offered with a different title

An advanced discussion of sociological theory based on major works of selected sociologists.

### **SOCI 4031 (3CR) FEMINIST PERSPECTIVES**

**Format:** Lecture/Group Projects 3 Hours

**Prereq:** SOCI 3001, 3011, 3301; or permission of the Department

**Exclusion:** SOAN 4031

This advanced seminar course examines the nature of feminist methodological approaches and theoretical analyses. Students will explore feminist contributions on a variety of issues.

### **SOCI 4101 (3CR) CLASS, STATUS AND PARTY**

**Format:** Seminar 3 Hours

**Prereq:** SOCI 3001, 3301 and 3 additional 3000 level credits in Sociology; or permission of the Department

**Exclusion:** SOAN 4101

An advanced discussion of the economic, social and political dimensions of structured social inequality. Canadian content will be used where appropriate.

### **SOCI 4301 (3CR) SEMINAR IN RESEARCH DESIGN AND METHODS**

**Format:** Seminar 3 Hours

**Prereq:** SOCI 3001, 3011, 3301

An advanced exploration of sociological research methods. This course will further develop students' understanding of and ability to use more advanced social research methods, learn of new developments in the field, and explore issues in social research.

### **SOCI 4511 (3CR) SOCIAL ORDER AND SOCIAL CHANGE**

**Format:** Lecture/Case Studies/Group Projects 3 Hours

**Prereq:** SOCI 3001, 3301 and 3 additional 3000 level credits in Sociology; or permission of the Department

**Exclusion:** SOAN 4511

An advanced seminar on the nature and maintenance of social order in society. The course examines the way in which the combination of coercion and consent leads to the maintenance of power on the part of elite groups, and the suppression of dissent from other groups. In addition, strategies for social change are assessed sociologically.

### **SOCI 4521 (3CR) MOBILITIES AND MIGRATIONS**

**Format:** Seminar 3 Hours

**Prereq:** SOCI 3001, 3011, 3301

**Exclusion:** SOCI 4951 Mobilities and Migrations

This course explores the movement of peoples within nations and across the globe. It examines political and economic forces through immigration and emigration, transnationalism, diasporic communities and refugees. It also considers some of the consequences of these mobilities in terms of hybridity, cosmopolitanism, and feelings of attachment, as discussed in postcolonial theories, and considers whether actual, imaginative, and virtual mobilities challenge the notion of 'society.'

### **SOCI 4901 (3CR) ISSUES IN SOCIOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** SOCI 3001, 3301 and 3 additional 3000 level credits in Sociology; or permission of the Department

**Exclusion:** SOAN 4901

A study of specific issues in Sociology.

### **SOCI 4911 (3CR) ADVANCED SPECIAL TOPICS IN SOCIOLOGY**

**Format:** Seminar 3 Hours

**Prereq:** SOCI 3001, 3301 and 3 additional 3000 level credits in Sociology; or permission of the Department

**Exclusion:** SOAN 4911

An advanced course which focuses on topics not covered by current course offerings in Sociology, or topics not covered in depth in the courses offered.

### **SOCI 4990 (6CR) HONOURS THESIS**

**Format:** Thesis

**Prereq:** Permission of the Department

## **SOCIOLOGY/ANTHROPOLOGY**

**Note:** Interdisciplinary Major and Honours in Sociology/Anthropology are also available. See Sociology/Anthropology.

## SOCIOLOGY / ANTHROPOLOGY

### Interdisciplinary Program

In everyday life, people concern themselves with various features of the world which they describe as social. Our interest in the social dimension of life is reflected in the many university disciplines dealing with some aspect of it. Sociology and Anthropology differ from other forms of inquiry in the extent to which study focuses on social phenomena and rests on the common general assumptions of the two disciplines that social life is most significantly structured by social forces. The program is designed to develop an awareness of social and cultural processes and forms, emphasizing what it means to think sociologically and anthropologically. As in all areas of serious study, the two disciplines involve a number of different approaches, and the program is designed to provide students with a good grasp of these various perspectives. Most courses offered also integrate material from Sociology and Anthropology.

### MAJOR in Sociology / Anthropology is 60 credits earned as follows:

- 6 from SOCI 1001, ANTH 1011
- 6 from Sociology and/or Anthropology at the 2000 level
- 3 from SOCI 3301 or ANTH 3311
- 6 from SOCI 3001, 3011, 4001, 4031, ANTH 3021, 3031, 4021
- 3 from ANTH 3801, 3821, 3831, 3841, 3851, 3861, 3871
- 6 from Sociology and/or Anthropology at the 3/4000 level
- 6 from Sociology and/or Anthropology at the 4000 level
- 6 further credits in Sociology and/or Anthropology
- 18 credits from complementary courses in Social Science, Humanities, Arts and Letters, and Psychology or MATH 2311, 2321, 3311, 3321 chosen in consultation with the Program Advisor

### HONOURS in Sociology/Antropology (Thesis Option) is 66 credits earned as follows:

- 42 credits as in the first eight lines of the Major, plus:
- 3 additional credits from ANTH 3021, 3031, 3311, 4021, 4311, SOCI 3001, 3011, 3301, 4001, 4031
- 15 from Sociology and/or Anthropology at the 3/4000 level, including 6 from the 4000 level, chosen in consultation with the Program Advisor
- 6 from SOCI 4990 or ANTH 4990

### HONOURS in Sociology/Antropology (Course Option) is 66 credits earned as follows:

- 42 credits as in the first eight lines of the Major, plus:
- 9 further credits from SOCI 3001, 3011, 3301, 4001, 4031, ANTH 3021, 3031, 3311, 4021, 4311
- 15 further credits from Anthropology and/or Sociology at the 3/4000 level, including 9 from the 4000 level, chosen in consultation with the Program Advisor

## SPANISH STUDIES

See Modern Languages and Literatures, Hispanic Studies

## WOMEN'S STUDIES

Women's Studies is an interdisciplinary program with a critical focus on social, cultural, economic, and political issues from the perspective of gender. Drawing on a substantial body of scholarship that challenges many of the assumptions and methods of traditional academic disciplines, Women's 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 Studies includes core courses in Women's 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 Studies as well as a more advanced study of the theoretical and methodological approaches of feminism.

### Interdisciplinary B.A. Programs

**MINOR in Women's Studies is 24 credits earned as follows:**

- 12 from WOST 2001, 3001, 3021, 4001
- 12 from CANA 3301, CLAS/HIST 2051, ENGL 3651, 3661, 4921, FINA 3081, GENV 4811, HIST 1671, 3471, 3531, 4461, 4571, FREN 3821, 3851 INLR 3001, POLS 3031, 4001, PSYC 2501 or 3511, RELG 3411, 3811, 4841, SOCI 2211, 4031

or from the following courses in any year when the Program Co-ordinator approves that their content contains a significant Women's Studies component: ANTH 2231, 2401, 3101, 3531, 3871, 4421, 4621, ENGL 3561, GENV 4811, HIST 3361, MUSC 3211, RELG 4821

**Note:** Other courses from the following disciplines may also be approved by the Program Co-ordinator when a significant Women's 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 Co-ordinator during the term in which they are taking the course.

## WOMEN'S 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 or Program Co-ordinator must be obtained.

### WOST 2001 (3CR)

#### INTRODUCTION TO WOMEN'S STUDIES

**Format:** Lecture/Discussion 3 Hours

**Prereq:** Completion of 30 credits or permission of the instructor  
This course provides an introduction to Women's Studies, a discipline which documents and analyzes the experience and contributions of women from a global and historical perspective. Students will be introduced to the core principles of the discipline of women's studies. In addition, the course will examine key issues of research and analysis in women's studies, including: social construction of sex and gender, patriarchy and the origins of female subordination, and women's activism and social change initiatives.

### WOST 3001 (3CR)

#### FEMINIST THEORIES

**Format:** Lecture 3 Hours

**Prereq:** WOST 2001; or permission of the instructor

This course provides a comparative and critical analysis of various feminist theories developed as explanatory frameworks for the understanding of the gender divisions within society. The course will review major feminist critiques of conventional approaches, and will offer an introduction to feminist thought. Theories examined include uniquely feminist theories such as radical feminism and cultural feminism, as well as feminist modifications of traditional social and political theories. Attention is given to perspectives which emerge from the diversity of women's lives.

### WOST 3021 (3CR)

#### FEMINIST EPISTEMOLOGY AND METHODOLOGY

**Format:** Lecture 3 Hours

**Prereq:** WOST 2001, 3001; or permission of the instructor

This course examines feminist critiques and strategies relating to the construction of knowledge and research methodologies, with particular attention to both historical and contemporary debates on significant research issues. Students will be introduced to the methods, techniques, and ethics involved in feminist research and analysis. The emphasis is both theoretical and practical: students will therefore engage in the process of assessing and performing feminist research.

### WOST 4001 (3CR)

#### CONTEMPORARY ISSUES IN FEMINISM

**Format:** Lecture 3 Hours

**Prereq:** WOST 2001, 3001, 3021; or permission of the instructor

This course provides an opportunity for students to study in considerable depth and detail selected contemporary issues of feminism in a global context. The course may focus on issues such as the politics of difference, theory and praxis debates, anti-feminist backlash, women and social change, masculinities, and feminist explorations of the body.



# 10 CO-CURRICULAR LIFE

## 10.1 THE STUDENT UNION

The Student Union of Mount Allison is governed by the Students' Administrative Council (SAC). This 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 SAC represents the students through council with representatives from on and off campus, and the six member executive. There are also many other positions, appointed through the SAC, that allow any student the opportunity to get involved. Many positions receive compensation in the form of small honoraria. The SAC also employs an administrator and an office manager to aid in its work. The SAC is located in the University Centre.

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

- Organizing Orientation, Homecoming and Winter Carnival
- Photocopying and faxes (pay as you play)
- Examination File
- Student Directories and the Allisonian Yearbook
- MAST (Mount Allison Student Tutoring)
- Dances, speakers, entertainment...AND MORE!!

The SAC 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 on campus. They include:

- Academic Departmental C&S (e.g. Commerce Society, Fine Arts Society)
- Political C&S - Young PC's, Young Liberals and Young NDP's
- Musical C&S - Chapel Choir, Conservatory Chorale, Ethel Peake Memorial Society, Mount Allison Brass Ensemble, etc.
- Eco-Action (Environmental)
- Eurhetorian Society (Debating)
- Garnet and Gold Society (Musical Theatre group)
- Mount Allison Christian Fellowship
- Society of All Nations (SAN)
- World University Services of Canada (WUSC)

Any student wishing to form a club or society can do so and should go to the SAC Office for help getting started. 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.

## 10.2 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.

## 10.3 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.

## 10.4 GARNET AND GOLD SOCIETY

The Garnet and Gold Society offers students a chance to take part in the production of a major musical. Students co-ordinate all aspects of the production, which is usually presented early in the new year.

## 10.5 WINDSOR THEATRE

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

## 10.6 STUDENT ENTERTAINMENT OFFICE

This branch of the SAC co-ordinates all campus entertainment. In addition to the usual dances, movies, live bands, and cultural performances, a number of popular special events are also offered. These include Orientation Week, Homecoming, Junior Prom, Winter Carnival and Graduation events.

## 10.7 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 Dean of Students and the Residence Office.

## 10.8 THE TANTRAMARSH CLUB

The campus pub, established in 1974, is a vibrant venue for social gatherings. The pub is the only permanently licensed facility on campus and offers to its members a giant T.V. screen, pool tables, a dance floor and weekly special events.

## 10.9 STUDENT EMPLOYMENT

Part time job opportunities are plentiful at Mount Allison. Students may earn extra income through employment with Dining Services, the Library, the Campus Police, Residence Staff, Bar Services, the Tantramarsh Club and various academic departments. Contact the appropriate department of interest.

## 10.10 ACCOMMODATION

### 10.10.1 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, Bigelow, Hunton, and Windsor Houses offer single and double rooms while Edwards, Harper and Thornton have single rooms. Campbell Hall, new in 2004-2005, offers single rooms with en-suite bathrooms. Some co-ed residences are divided by floor or by

wing, while others have male and female rooms integrated on the same floor.

The Cuthbertson House Sustainable Residence is a new initiative that brings students together in one residence dedicated to creating a way of life based on a participatory approach to living in a manner that will reduce the environmental impact on campus. This will include making conscientious choices, for example, about where food comes from, what temperature to maintain, in order to raise awareness about human impact and resource consumption. Carriage House is an active scholarly community where lively debate and discussion on topics of academic interest take place daily. Both Carriage and Cuthbertson Houses are limited to returning students although new students will be considered if space is available.

In keeping with its desire to provide choices in accommodation, the University offers opportunity to those students wishing to immerse themselves in an atmosphere of speaking in French, German and/or Spanish to enter into a residence language immersion experience. The language living option is offered in Thornton House.

Our 11 secure residences offer common lounges, kitchens, study rooms and laundry facilities with high speed and wireless Internet, 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.

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, firearms and explosive materials are not permitted in residence.

### 10.10.2 Residence Application Procedure

All first year students who wish to be considered for residence accommodation can apply using the on-line Residence Application on the Connect@MTA website. Assignment of residence rooms is based on the date the \$100 registration deposit is received by the Office of Student Services. The \$500 residence deposit must be paid by the deadline to hold a residence room for September. 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.

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

Students studying abroad should contact the Office of Student Services, <studentservices@mta.ca>, in January, if they wish to live in residence upon their return to Mount Allison.

### 10.10.3 Non-University Housing

The Students' Administrative Council 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.

## 10.11 DEPARTMENT OF PHYSICAL RECREATION AND ATHLETICS

### 10.11.1 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 through Continuous Learning 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.

### 10.11.2 Competitive Club Sports

A number of competitive club sport teams have been developed in recent years. Men's and women's rugby, men's volleyball, golf, curling, tennis, men's hockey, figure and precision skating, 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.

### 10.11.3 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.

### 10.11.4 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.

### 10.11.5 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.

## 10.12 RELIGIOUS LIFE ON CAMPUS

### 10.12.1 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.

### 10.12.2 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.

### 10.12.3 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.

### 10.12.4 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.

### 10.12.5 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.

### 10.12.6 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.

## 10.13 STUDENT LIFE

### 10.13.1 The Dean of Students

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

### 10.13.2 Academic Concerns

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

### 10.13.3 Academic Support

Assistance with academic skills is provided through Student Life; 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 Academic and Career Counsellor.

### 10.13.4 Writing Resource Centre

Student Life offers help to students who are experiencing problems expressing themselves in writing. The Writing Resource Centre is conducted on a one-to-one basis and may be accessed through Student Life.

## 10.14 STUDENT LIFE RESOURCES

### 10.14.1 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.

In emergencies students may contact Student Life during office hours, or the Sackville Hospital.

### 10.14.2 Sexual Harassment

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.

### 10.14.3 Career Choice Concerns

The University Career Resource Centre is located in the Student Life Office and houses information on graduate and professional programs, careers, study, volunteer, and work abroad programs. Information is available on occupational profiles, labour market trends, resumé writing, job search techniques and preparing for interviews. Workshops are also available on career related issues throughout the academic year. The Academic and Career Counsellor offers guidance with career exploration through individual career counselling and interest and skill surveys which help students answer the questions such as the following:

- What career do my abilities lead to?
- What career or study path do my interests lead to?
- What can I do with my undergraduate degree?
- Where should I go to pursue this career?
- What does the future hold for the profession I am interested in?

### 10.14.4 Employment

All job postings received by the Academic and Career Counsellor are posted on <<http://www.workopolisCampus.com>> which is a free web service accessible to all students. Some hard copies of job postings are placed on a notice board outside the Student Life Office. A variety of internships and on- and off-campus career and summer employment opportunities, both part-time and full-time, are posted. Applications and additional information are available in the Student Life Office. In addition, the Academic and Career Counsellor co-ordinates the visits of employers to campus. For further information contact the Academic and Career Counsellor.

### 10.14.5 Student Health Centre

The Student Health Centre is a confidential, nonjudgemental health service that strives to reduce health barriers for young adults living away from home with the support of a Nurse/Educator. The Health Centre promotes healthy living, is supportive, and treats illness and injuries quickly, so that absences from classes are kept to a minimum.

The Student Health Centre offers health care to all students at the University. It is committed to providing quality health care and services to promote and enhance students' good health and well-being. These services are easily accessible and geared toward the unique needs and concerns of all students. Optimal health enables students to achieve their fullest academic potential.

Health services provide 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 A health web page.

In order to further service the medical health needs of Mount A students, a Family Physician will provide limited clinic hours at the Health Centre. Students are also encouraged to seek appointments with the doctors outside of the clinic as necessary. Emergencies are dealt with at the Emergency Department of the Sackville Hospital.

All health services are strictly confidential. Medical information can only be released with the student's written authorization. In order to promote and enhance students' good health and well-being, the Nurse/Educator co-ordinates health care services of Mount Allison students, by triaging their individual needs. Health referrals can be made through the Nurse/Educator in order to promote healthy living through a caring and supportive environment, in accordance with the standards of professional practice.

### 10.14.6 Student Health Insurance

Because most students have health insurance through parental plans, the University does not have a mandatory health insurance program for Canadian students. **Health insurance is mandatory for international students. Students are strongly urged to ensure that they have adequate coverage.** A list of health insurance options is available from Student Life or on the Mount A health web page.

### 10.14.7 Dietary and Nutritional Concerns

A dietitian visits campus a half day per week for appointments to discuss balanced diets, nutrition and healthy living. Services may be contacted through Aramark Food Services, (506)364-2423

### 10.14.8 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.

### 10.14.9 Landlord/Tenant Concerns

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

### 10.14.10 International Students

Students who come to Mount Allison from other countries are very important members of the University community. A special International Orientation is held for them when they arrive to help them with their adjustment to Canada through information sessions answering their specific needs. The International Student Advisor is available throughout the year to help international students with any kinds of problems they might have such as cultural adjustment and personal, academic or immigration problems. A comprehensive health insurance plan for international students is available through this office as well. Mount Allison University has strict guidelines which protect international students' rights not to be discriminated against because of race, colour, ethnic or national origin, place of origin, or ancestry. There are several clubs, committees and campus projects which promote awareness, understanding, and appreciation of multiculturalism.

### 10.14.11 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 SAC or Student Life. The Dean of Students 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.

## 10.15 SERVICES FOR STUDENTS WITH DISABILITIES

### 10.15.1 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 a supportive and challenging environment 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 from the Meighen Centre and it may be viewed on the web at <[www.mta.ca](http://www.mta.ca)>.

The Office of Student Life and the Meighen Centre provide a range of services to support the academic needs of students with disabilities. The Meighen Centre offers services to students with learning disabilities and all inquiries related to learning disabilities should be addressed to

this office at (506)364-2527. Student Life co-ordinates services to students with disabilities other than learning disabilities and inquiries should be addressed to Student Life at (506)364-2255. Before services can be provided, students must present documentation of their disability to the appropriate office.

### 10.15.2 Student Life

The Student Life Office provides services to students with disabilities other than learning disabilities who are currently attending Mount Allison University. To receive service, students must present appropriate documentation.

Services include academic counselling, personal counselling, instruction and ongoing support in learning and organizational strategies, liaison with food services and arrangements for accommodations for writing tests and examinations when appropriate.

Students with a disability other than a learning 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 Student Life Office as early as possible in the admissions process.

Students currently attending Mount Allison who have been previously identified with a disability other than a learning disability and who want to access support services should contact the Academic and Career Counsellor at (506)364-2255.

### 10.15.3 The Meighen Centre

The Meighen Centre provides academic assistance to students currently registered at Mount Allison University who have been professionally assessed and found to have a learning disability.

Services include academic counselling, learning strategies instruction, peer tutoring, note taking, assistance with Canada Access Grant applications, instruction in use of assistive technology, access to text books in alternate format and arrangements for accommodations for writing tests and examinations when appropriate.

Students with a learning 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 learning disability and who want to access support services should contact the Co-ordinator of the Meighen Centre at (506) 364-2527.



# 11 GENERAL INFORMATION

## 11.1 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 and faculty with access to information around the world on-line and through book and periodical collections. They are committed to working with students and faculty to promote information literacy - accessing, critically evaluating, and using information effectively and ethically. Their librarians offer in-depth reference services, in-class instruction and research interviews by appointment.

The Mount Allison University Libraries hold over 1.2 million books, videos, DVDs, audio materials, microforms, maps, etc., and provides access to the contents of over 22,000 journals in various formats. The Bell Library houses all of the University's collections except music, including collections of rare books, maps and manuscripts dating from as far back as the 17th century. The Alfred Whitehead Music Library is home to impressive collections of catalogued printed music, books and bound journals (over 24,000), indexed sheet music (over 6,000 items), specialized electronic databases such as RILM Abstracts of Music Literature and Grove Music Online, and audio-visual materials including over 7,500 commercial audio recordings as well as 30 years of recordings of Mount Allison Department of Music's concerts. Students can access the electronic library catalogues and databases by computer from their residence room, from any of the computer labs on campus, or from anywhere they have Internet access. The Libraries are open seven days a week during the school year. They are a member of the Atlantic Scholars Information Network (ASIN) which permits Mount Allison students and faculty to consult and borrow materials in academic libraries throughout Canada.

The **Archives** are 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 University Archives' documentary holdings comprise the "memory" of Mount Allison.

The Archives secure, preserve and make available the archival records of Mount Allison University which have 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 obtain as well selected private fonds and collections related to Westmorland County and the Sackville (New Brunswick) area such as family papers, business records, records of local clubs and organizations. Archival documents must be examined in the Archives and are not available for loan. Access to the Archives and reference assistance are available by appointment.

## 11.2 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. BRENNAN 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 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 for books in Biology 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.

## 11.3 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 Black House, 82A 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 scholars.

### 11.3.1 Alumni Board of Directors

#### Officers

Honorary President	Louise (Oates) Cooke '70
Past President	David Greenwood '58
President	Barbie Smith '75
Vice-President and Secretary	Andrew A. Clark '98

#### Directors

Bob Benn	'52
Gerard d'Entremont	'90, '94
Anne-Katherine Dionne	'88
Scott Ellison	'92
Amy MacAdam	'02
Beth (Porter) MacMichael	'78
Sharon (Smith) Moyse	'67
Paul Pergau	'67
Margaret (Doane) Poole	'87
David Rose	'90
Denise Schofield	'90
Kathie Wheadon-Hore	'80

## 11.4 COMPUTER FACILITIES

There are several publicly accessible computer labs on campus. The PC labs have well over one hundred networked DELL computers. The Macintosh lab has 17 Macintosh computers and a flatbed scanner. A Student Helpdesk Consultant is available evenings and weekends in

the Library to answer questions and provide assistance. The Computing Services Helpdesk is open weekdays to assist students and staff. Laser printing is available at several locations. The Multimedia Production Centre has several PCs and Macs with a number of digital media production software and hardware packages including video editing suites, flatbed, slide and negative scanners, digital cameras, and other video/audio equipment.

### 11.4.1 Software

Software available in the labs include 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. There is also CD-ROM based information offered in conjunction with the Ralph Pickard Bell Library and access to its on-line catalogue.

### 11.4.2 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.

### 11.4.3 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 wireless network in residence.

### 11.4.4 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.

## 11.5 MOUNT ALLISON UNIVERSITY BOOKSTORE

Textbooks and materials required for courses offered by Mount Allison University are available for sale at the Bookstore located at 62 York Street, Sackville, N.B., E4L 1E2. The Bookstore is owned by Mount Allison University with the object to make textbooks and required course materials available to students at the lowest possible prices. Prices are currently discounted between 5-15% below suggested publisher 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. Credit card orders may be placed on our secure website found at <<http://bookstore.mta.ca>>. Students staying in residence can opt for the Books on Beds delivery service before classes begin in September and January.

## 11.6 BANKING SERVICES

Branches of the Royal Bank of Canada and the Bank of Nova Scotia are located in Sackville. Twenty-four hour banking facilities are available at both branches as well as ATM service in the University Centre.

## 11.7 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.

# 12 PERSONNEL

## 12.1 OFFICERS OF THE UNIVERSITY

### CHANCELLOR

John Bragg

### PRESIDENT AND VICE-CHANCELLOR

Robert M. Campbell

## 12.2 THE REGENTS OF MOUNT ALLISON

### EX-OFFICIO MEMBERS

Robert M. Campbell, Sackville, New Brunswick

John Bragg, Oxford, Nova Scotia

### APPOINTED BY THE BOARD OF REGENTS

David Booth, Shewsbury, Massachusetts

Carol Chapman, Moncton, New Brunswick

Suzanne Crawford, Westmount, Quebec

James M. Dickson, Halifax, Nova Scotia

Tom Hierlihy, Oakville, Ontario

Gordon MacKay, Charlottetown, Prince Edward Island

Donald MacLeod, Dartmouth, Nova Scotia

J. Scott McCain, Toronto, Ontario

Bruce McCubbin, Saint John, New Brunswick

Wylie McMullen, Sackville, New Brunswick

Robert M. Ogilvie, Concord, Ontario

### APPOINTED BY THE MOUNT ALLISON FEDERATED ALUMNI

Jane Craighead, Montreal, Quebec

Nancy Grant, Saint John, New Brunswick

Monique Imbeault, Moncton, New Brunswick

John Laidlaw, Saint John, New Brunswick

### APPOINTED BY THE UNITED CHURCH OF CANADA

Reid Harrison, Windsor, Nova Scotia

Ron Naugler, New Maryland, New Brunswick

### APPOINTED BY THE FULL-TIME TEACHING FACULTY

Karen Bamford, Sackville, New Brunswick

Andrew Grant, Sackville, New Brunswick

### APPOINTED BY THE STUDENTS' ADMINISTRATIVE COUNCIL

Marianne Greene, Sackville, New Brunswick

Neil Fraser, Sackville, New Brunswick

### SECRETARY OF THE BOARD

Linda R. Wheaton, Sackville, New Brunswick

## 12.3 THE SENATE OF MOUNT ALLISON

John Bragg, Chancellor

Robert M. Campbell, President and Vice-Chancellor

Mark Blaggrave, Secretary of Senate

### REPRESENTATIVES OF THE BOARD OF REGENTS

David Beatty

Donald A. Cameron

Clarence LeBlanc

Gordon MacKay

Wylie McMullen

J. Robert Winters

### EX-OFFICIO MEMBERS

Bruno Gnassi, University Librarian

Stephen McClatchie, Vice-President, Academic and Research

Jeff Ollerhead, Dean of Science

Chris Parker, Registrar

Heather Patterson, Director of Continuous Learning

Robert Summerby-Murray, Dean of Social Sciences

Hans vanderLeest, Dean of Arts

### FACULTY REPRESENTATIVES

Nauman Farooqi

Robert Ireland

Robert Lapp

Arthur Miller

Elaine Naylor

William Wilson

### DEPARTMENTAL REPRESENTATIVES

Robert Adlam, Anthropology

Felix Baerlocher, Biochemistry

Ron Beattie, Mathematics and Computer Science

Karen Bamford, English

Paul Berry, Commerce

Fiona Black, Religious Studies

Paul Bogaard, Philosophy

Ralf Brüning, Physics

Doug Campbell, Biology

Stephen Claxton-Oldfield, Psychology

Ivan Cohen, Classics

Stephen Duffy, Chemistry

Alex Fancy, Drama

Peter Higham, Ralph Pickard Bell Library

Thaddeus Holownia, Fine Arts

Stephen Law, Economics

Mark Lee, Modern Languages & Literatures

Erin Steuter, Sociology

David Torrance, History

Michael Tucker, Political Science

Christl Verduyn, Canadian-Studies

Brad Walters, Geography

Elizabeth Wells, Music

### STUDENT REPRESENTATIVES

Brian Crouse

Christopher Durrant  
 Robin MacNearney  
 Abigail McGillivray  
 Shannon Milroy  
 Katie Saulnier

## ASSOCIATE MEMBERS

Ronald G. Byrne, Vice-President Student Affairs  
 Jack Drover, Athletic Director  
 Marianne Greene, President, S.A.C.  
 Eileen Herteis, Purdy Crawford Teaching Centre  
 Dara MacDonald, Vice-President Academic Affairs, S.A.C.  
 Valerie Narayana, Faculty Council Executive 2007-2009  
 John David Stewart, Vice-President Administration  
 Deborah Wills, Faculty Council Executive 2007-2009

## 12.4 OFFICERS OF ADMINISTRATION

### President and Vice-Chancellor

Robert M. Campbell, B.A., M.A., Ph.D.

### Secretary to the Board of Regents and NAC

Linda R. Wheaton

### Vice-President, Academic and Research

Stephen McClatchie, B.Mus., Ph.D.

### Vice-President, Administration

John David Stewart, B.Sc., LL.B.

### Vice-President, External Relations

Gloria Jollymore, B.A., M.B.A.

### Vice-President, Student Affairs

Ronald G. Byrne, B.A., LL.B.

### Dean of Arts

Hans vanderLeest, B.A., M.A., Ph.D.

### Dean of Social Sciences

Robert E. Summerby-Murray, A.T.C.L., B.A., M.A., Ph.D.

### Dean of Science

Jeff Ollerhead, B.Sc., M.Sc., Ph.D.

### Dean of Students

David Rowland, B.Sc.; M.Ed.

### University Librarian

Bruno Gnassi, B.A., M.L.S.

### Registrar

Chris Parker, B.F.A.

### Associate Registrar, Institutional Reporting and Data Analysis

Jonathan Parsons, B.A.

### Associate Registrar, Student Records and Services

Jocelyn Ollerhead, B.Sc., M.Sc.

### Manager of Admissions

Matthew Sheridan-Jonah, B.A.

### Financial Aid and Awards Counsellor

Catherine Crenna, B.A.Sc.

### Controller

Robert Inglis, B.Comm., CA

### Secretary of the Senate

Mark Blagrove, B.A., M.A., Ph.D.

### Secretary to the Faculty Council

Elizabeth Wells, B.Mus., 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 Continuous Learning

Heather Patterson, B.A., M.A.

### Director of Facilities Management

Robert MacCormack, P. Eng., M.B.A.

### Director of Human Resources

Ron Sutherland, B.Com.

### Director and Curator of the Owens Art Gallery

Gemey Kelley, B.A., B.F.A.

### Director of Physical Recreation and Athletics

Jack Drover, B.P.E., M.A.

### Director of the Purdy Crawford Teaching Centre

Eileen M. Herteis, M.A.

### Co-ordinator of Leadership Mount Allison

John Perkin, B.A., M.A., M.Div.

### Sexual Harassment Advisor

Melody Petlock, B.A.

## 12.5 CHANCELLORS EMERITI

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

Harold Purdy Crawford, O.C., Q.C., B.A., LL.M., LL.D.

J. James Keith, B.A., M.A.

## 12.6 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.

## 12.7 REGISTRARS EMERITI

Donald Alexander Cameron, B.Sc., LL.D.

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

## 12.8 PROFESSORS EMERITI

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

Peter Allan, B.A., M.A., Ph.D., Professor of French, 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

David Beatty, B.A., M.A., Ph.D., Professor of History, Emeritus

Ronald Albert Boorne, B.A. B.Sc., P.Eng., Professor of Engineering, Emeritus

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

Robert Calvert, B.A., M.A., Associate Professor of Classics, 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

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

William Banner Cunningham, B.A., M.A., Ph.D., Professor of Economics, Emeritus

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

Boris Dekster, M.Sc., Ph.D., Professor of Mathematics and Computer Science, Emeritus

Lloyd Allison Duchemin, B.A., M.A., Ph.D., Professor of English, Emeritus

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

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

Laing Ferguson, B.Sc., Ph.D., Professor of Geology, Emeritus

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

William Gerald Godfrey, B.A., M.A., Ph.D., Professor of History, Emeritus

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

William Baillie Hamilton, B.A., B.Ed., M.A., Ph.D., Professor of Education, 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

Hinrich Harries, B.Sc., M.Sc., Ph.D., Professor of Biology, 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

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

Raghavachar Scrinivas Iyengar, B.Sc., M.A., M.Sc., Professor of Mathematics and Computer Science, Emeritus

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

Evron Norinne Kinsman, B.Mus., M.A., Professor of Music, Emeritus

Douglas Grant Lochhead, B.A., M.A., B.L.S., D.Litt., LL.D., F.R.S.C., Professor of Canadian Studies, Emeritus

John T. Macfarlane, B.A., M.Sc., Professor of Physics, Emeritus

George Gordon Manson, B.A., B.Ed., M.Ed., Ph.D., F.C.C.T., Professor of Education, 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

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

Arthur John Motyer, B.A., M.A., D.C.L., Professor of English, 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

Neville Ralph, B.Comm., M.B.A. CA, Associate Professor of Commerce, 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

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

John A. Stanton, B.A., M.A., Ph.D., Professor of History, Emeritus

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

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

Robert G. Thompson, B.Sc., M.Sc., Ph.D., Professor of Biology, Emeritus

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

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

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

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

Liliane Welch, B.A., M.A., Ph.D., Professor of French, Emeritus

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

## 12.9 LIBRARIANS EMERITI

Ruth Olive Miller, B.Comm., M.L.S.

## 12.10 ACADEMIC STAFF

### 12.10.1 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); Assistant 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);  
Associate Professor

### Department of Biology and Biochemistry Program

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

Baerlocher, Felix Jakob, Dipl. sc nat. (ETH, Zurich); Ph.D. (Waterloo);  
Privatdozent (Dr. habil., Basel); Professor of Biology and Head of the  
Department

Baltzer, Jennifer, B.Sc. (Acadia); Ph.D. (Toronto); Assistant Professor

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

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

Chardine, John; Adjunct Professor of Biology

Clair, Thomas, B.Sc. (Mount Allison); M.Sc. (Ottawa); Ph.D.  
(McMaster); Adjunct Professor of Biology

Currie, Suzanne, B.Sc. (Acadia); M.Sc., Ph.D. (Queen's); Associate  
Professor

Giberson, Donna J., B.Sc. (Calgary); M.Sc., Ph.D. (Manitoba); Adjunct  
Professor of Biology

Griffiths, Steven G., B.Sc. (Southampton); Ph.D. (UNB); Adjunct  
Professor of Biology

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

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

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

Kaczmarek-Ehrman, Irena, M.Sc., Ph.D. (Jagellonian); Professor of  
Biology

Locke, Andrea, B.Sc., M.Sc. (Guelph); Ph.D. (Toronto); Adjunct  
Professor of Biology

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

Stewart, John M., B.Sc. (Saskatchewan); M.Sc. (Regina); Professor of  
Biochemistry

### Department of Chemistry

Barclay, Lawrence Ross Coates, B.Sc., M.Sc. (Mount Allison); Ph.D.  
(McMaster); Research Professor

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

Culf, Adrian, B.Sc., Ph.D. (Surrey); Adjunct Professor

Culf, Mira, B.Sc. (Yugoslavia); M.Sc., Ph.D. (University of California,  
Santa Barbara, USA); Adjunct Professor

Duffy, Stephen, B.Sc. (Laurentian); M.Sc., Ph.D. (Queen's); Associate  
Professor and Head of the Department

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

Grant, Andrew, B.Sc. (Queen's); Ph.D. (New Brunswick); Associate  
Professor

Langler, Richard F., M.Sc. (New Brunswick); B.Sc., Ph.D. (Dalhousie);  
Professor

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

Read, John Frederick, B.Sc., Ph.D. (Nottingham); Research Professor

Reinsborough, Vincent Conrad, B.A., M.A. (Toronto); S.T.B.  
(University of St. Michael's College); Ph.D. (Tasmania); Research  
Professor

Spielvogel, Bernard F., B.S. (Geneva College); Ph.D. (Michigan);  
Adjunct Professor

Tucker, William, B.Sc. (Mount Allison); M.D. C.M. (Queens); Adjunct  
Professor

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

### Department of Classics

Cohen, Ivan, B.A. (Toronto); M.A. (McMaster); Ph.D. (Toronto);  
Professor and Head of the Department

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

Shumka, Leslie, B.A., M.A., Ph.D. (Victoria); Assistant Professor

Surtees, Allison, B.A. (New Brunswick); Crake Doctoral Fellow

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

### Department of Commerce

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

Farooqi, Nauman, B.Sc. (Pakistan); M.B.A., Ph.D. (St. Louis); Associate  
Professor

Grandy, Gina, B.Comm., M.B.A. (Memorial); Ph.D. (Northumbria  
University); Assistant Professor

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

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

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

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

### Department of Economics

Anthonisen, Niels, B.A. (McGill); M.A., Ph.D. (Columbia); Associate  
Professor and Head of the Department

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

Law, Stephen, B.A. (British Columbia); M.A., Ph.D. (Toronto); Associate  
Professor

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.); Assistant Professor

### Department of English

Bamford, Karen, B.A. (Queen's); M.A., Ph.D. (Toronto); Associate  
Professor and Head of the Department

Blagrave, Mark, B.A. (Mount Allison); M.A., Ph.D. (Toronto); 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  
Harris, Jennifer, B.A. (Western Ontario); M.A., Ph.D. (York); Assistant  
Professor

Lapp, Robert, B.A., M.A. (Toronto); Ph.D. (Dalhousie); Associate  
Professor

MacMillan, Carrie, B.A. (New Brunswick); M.A. (Dalhousie); Ph.D.  
(McMaster); Professor

Rogers, Janine, B.A., M.A., Ph.D. (McGill); Associate Professor  
Verduyn, Christl, B.A. (Trent); M.A., Ph.D. (Ottawa); Professor  
Wills, Deborah, B.A. (Trinity Western); M.A. (Carleton); Ph.D.  
(Alberta); Associate Professor

### Department of Fine Arts

Burke, Rebecca, B.A. (Guam); M.F.A. (Ohio State); Professor  
Burns, Jeffrey, B.A. (Waterloo); M.F.A. (Alberta); Associate Professor  
Edson, Erik, B.F.A. (Queen's); M.F.A. (Windsor); Associate Professor  
Garnett, Leah, B.A. (Brown); B.F.A. (Nova Scotia College of Art and  
Design); M.F.A. (Guelph); Assistant Professor  
Holownia, Thaddeus, B.A. (Windsor); Professor and Head of the  
Department

Kelly, Gemey, B.A. (Toronto); B.F.A. (Nova Scotia College of Art and  
Design); Adjunct Professor

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

Steeves, Dan, B.F.A. (Mount Allison); Part-time Lecturer

Stentaford, Karen, B.F.A. (Mount Allison), B.Ed. (Nova Scotia College  
of Art and Design University)

### Department of Geography and Environment

Bruce, David, B.A. (Mount Allison); M.A. (British Columbia); Adjunct  
Professor, Director of RSTP

Burns, Ausra, B.A. (Vilnius); M.Des, Ph.D. (Alberta); Adjunct Professor

Ennals, Peter M., B.A., M.A., Ph.D. (Toronto); Professor

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

Fox, Michael J., B.A., M.A. (Western Ontario); Dip. Ed., Ph.D. (McGill);  
Professor and Head of the Department

Laroque, Colin P., B.Sc. (Saskatchewan); M.Sc. (Victoria); Ph.D.  
(Victoria); Assistant Professor

Mossman, David J., B.Sc., M.Sc. (Dalhousie); Ph.D. (Otago); Emeritus  
and Research Professor of Geoscience

Ollerhead, Jeff, B.Sc. (Guelph); M.Sc. (Toronto); Ph.D. (Guelph);  
Professor, Director Mount Allison Coastal Wetlands Institute, and  
Dean of Science

Reiffenstein, Tim, B.A. (McGill); M.A., Ph.D. (Simon Fraser); Assistant  
Professor

Robichaud, André, B.A., B.Sc. (Moncton); M.A., Ph.D. (Laval);  
Post-doctoral Research Associate

Simple, Stuart, B.A. (Sydney); D.Ed. (Toronto); Adjunct Professor

Summerby-Murray, Robert, B.A., M.A. (Canterbury); Ph.D. (Toronto);  
A.T.C.L. (London); Associate Professor and Dean of Social Sciences  
Walters, Bradley, B.Sc. (British Columbia); M.E.S. (Dalhousie); Ph.D.  
(Rutgers); Associate Professor

### Department of History and Canadian Studies

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

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

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

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

Naylor, Elaine, B.A. (Evergreen State); M.A., Ph.D. (York); Associate  
Professor, Head of the Department, and Co-ordinator of Women's  
Studies Program

Nurse, Andrew, B.A. (Dalhousie); M.A., Ph.D. (Queen's); Associate  
Professor and Director of the Centre for Canadian Studies

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

Baker, Catharine Anne, B.Sc., M.Sc., Ph.D. (McMaster); Professor

Beattie, Margaret, B.Sc. (McMaster); M.Sc., Ph.D. (Queen's); Professor

Beattie, Ronald James, B.Sc., M.Sc. (Windsor); Ph.D. (Queen's);  
Professor and Head of the Department

Dekster, Boris V., M.Sc., Ph.D. (Leningrad); Research Professor

Irwin, Andrew J., B.Sc. (Toronto); M.Sc. (British Columbia); B.Ed.  
Assistant Professor

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

Miller, B. Arthur, B.A. (Hiram); M.A., Ph.D. (Syracuse); M.E.C.  
(Dalhousie); Professor

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

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

Sealy, Robert P., B.Sc. (Mount Allison); Ph.D. (Southern Illinois);  
Professor

Sica, Francesco, Laurea (Pisa-Italy); Ph.D. (McGill); Assistant Professor

Tory, Elmer M., B.Sc. (Alberta); Ph.D. (Purdue); Research Professor

### Department of Modern Languages and Literatures

Bell, Kirsty, B.A. (Guelph); M.A., Ph.D. (Toronto); Assistant Professor  
of French

Boehring, Monika, B.A. (Brock); M.A. (McMaster); Ph.D. (Toronto);  
Associate Professor of French

Desmarais, Claude, B.A., M.A., Ph.D. (Toronto); Assistant Professor  
of German

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

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

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

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); Assistant Professor of French

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

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

Weiss, Judith A., B.A. (McGill); M.A., Ph.D. (Yale); Professor of Spanish

## Department of Music

Code, Belinda, B.Mus. (Bowling Green); M.Mus. (Western Illinois); Associate Professor

Code, James Grant, B.S. (Lebanon Valley); M.Mus., D.M.A. (Miami); Professor

Ferguson, Danise Joy, B.Mus. (Calgary); M.Mus. (Western Ontario); Associate Professor

Gould, Monette, A.R.C.T., L.R.C.T.; Part-time Instructor

Higham, Peter, B.A., M.Mus. (Alberta); M.L.S. (British Columbia); L.R.A.M. (London); Part-time Lecturer

Martin, Gayle, B.Mus. (SUNY); M.Mus. (McGill); D.M. (Alberta); Assistant Professor

McClatchie, Stephen, B.Mus., Ph.D. (Western Ontario); Professor and Vice-President, Academic and Research

Pridmore, Helen, B.Mus. (Saskatchewan); M.Mus. (Toronto); D.M.A. (Rochester); Associate Professor

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

Tucker, Gary, B.Mus. (Mount Allison); M.A., Ph.D. (Western Ontario); Associate Professor and Head of the Department

Vogan, Nancy F., B.A. (Mount Allison); M.Mus., Ph.D. (Rochester); Professor of Music

Wells, Elizabeth, B.Mus. (Toronto); M.A., Ph.D. (Rochester); Associate Professor

## Department of Philosophy

Bogaard, Paul, B.A. (Central College); M.A., Ph.D. (Emory); Professor

Majithia, Roopen, B.A. (Beloit); M.A. (Northern Illinois); Ph.D. (McMaster); Associate Professor and Head of the Department

## Department of Physics

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

Brüning, Ralf, Vordiplom (Kiel); M.Sc., Ph.D. (McGill); Associate Professor and Head of the Department

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

Hawkes, Robert Lewis, B.Sc., B.Ed. (Mount Allison); M.Sc., Ph.D. (Western Ontario); P. Phys.; Professor

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

Varma, Pravin Kumar, B.E. (Jodhpur); M.E. (N.S.T.C.), B.Ed. (Mount Allison); P.Eng.; Professor

## Department of Political Science

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

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

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

Small, Tamara, B.A. (Guelph); M.A. (Calgary); Ph.D. (Queen's); Assistant Professor

Tucker, Michael J., B.A. (Bishop's); M.A., Ph.D. (Toronto); Professor and Head of the Department

## Department of Psychology

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

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

Harpur, John G.E., B.A. (Queen's, Belfast), M.Sc. (Loughborough); Ph.D. (Queen's, Belfast); Associate Professor

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

Ouellette, Gene P., B.Sc. (Dalhousie); M.Sc. (McGill), Ph.D. (Carleton); Assistant Professor

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

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

Wilson, Alexander M., B.Sc. (Trent); M.Ed., Ph.D. (Calgary); Associate Professor

## Department of Religious Studies

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

Clayton, Barbra, B.A., M.A. (Calgary); Ph.D. (McGill); Assistant Professor and Head of the Department

Perkin, John Conway, B.A., M.A. (Acadia); M.Div. (McMaster); Part-time Lecturer

Wilson, Andrew, B.A. (Monash); B.Theol. (Melbourne College of Divinity); Ph.D. (Sheffield); Assistant Professor

## Department of Sociology

Doyle, Judith, B.A. (Simon Fraser); Ph.D. (Hull-England); Assistant Professor

Fleming, C.E. Berkeley, B.A., M.A., (McGill); Professor, Head of the Department of Sociology

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

## Interdisciplinary Programs

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

International Relations: Strain, John Frank, B.A. (Prince Edward Island), M.A. (New Brunswick); Ph.D. (Manitoba); Professor and Co-ordinator of International Relations

Women's Studies: Hammond Callaghan, Marie, B.A., B.Ed. (Mount Allison); M.A. (Ontario Institute for Studies in Education, Toronto); Ph.D. (Dublin); Assistant Professor

Women's Studies: Naylor, Elaine, B.A. (Evergreen State); M.A., Ph.D. (York); Associate Professor and Co-ordinator of Women's Studies Program

### 12.10.2 Librarians

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

Edwards, Rhianna, B.A. (MTA) M.A.S. (UBC); University Archivist  
Ennals, Cheryl, B.A. (Guelph); B.L.S. (Toronto); Archives Cert. (Public Archives of Canada); University Archivist

Fancy, Margaret, B.A., M.L.S. (Western Ontario); Special Collections Librarian

Gnassi, Bruno, B.A. (Montréal); M.L.S. (McGill); University Librarian  
Gullikson, Shelley, B.A. (Toronto); M.L.I.S. (Dalhousie); Assistant Librarian

Higham, Peter, B.A., M.Mus (Alberta); M.L.S. (British Columbia); L.R.A.M. (London); Librarian

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

Macpherson, Ruthmary, B.Sc. (Mount St. Vincent); M.L.S. (Dalhousie), M.B.A. (Moncton); Associate Librarian

McNally, Brian, B.Sc., B.Ed., M.A. (New Brunswick); M.L.S. (McGill); Librarian

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

## 12.11 MEIGHEN CENTRE FOR LEARNING ASSISTANCE AND RESEARCH

Comfort, Anne, B.A., B.Ed., Certificate in Special Education (Mount Allison); Learning Assistant

Drover, Jane, B.P.E. (New Brunswick); M.Ed. (Wyoming); Co-ordinator/Learning Specialist

Hart, Joanne, B.A. (Dalhousie); B.Ed. (Maine); Co-ordinator, Peer Tutoring Program

Wilson, Alexander M., B.Sc. (Trent); M.Ed., Ph.D. (Calgary); Director

## 12.12 STUDENT LIFE

Broadbent, Allison, B.F.A. (Mount Allison); International Student Advisor

Crossman, Cindy, B.Sc. Nursing (St. Francis Xavier), Registered Nurse/Educator

Dicks, Janice, B.A. (Memorial), M.Ed. (Western); Counsellor

Perkin, John, B.A., M.A. (Acadia); M.Div. (McMaster); University Chaplain

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

Rowland, David, B.Sc. (Coast Carolina University); M.Ed. (University of Charleston); Dean of Students

Trotter, Kristin, B.A. (Bishop's); B.A. (Carleton); M.Ed. Counselling (McGill); Counsellor

## 12.13 DEPARTMENT OF PHYSICAL RECREATION AND ATHLETICS

Cooper, Barry, International Certified Coach; Men's Soccer Coach (Part-time)

Dowling, Jocelyn, B.Sc. Human Kinetics (University of Guelph); Diploma of Sports Injury Management (Sheridan); Certified Athletic Therapist

Drover, Jack, B.P.Ed. (New Brunswick); M.A. (Wyoming); Athletic Director, Women's Hockey Coach

Gallant, Sheri, B.A. (St. Thomas); B.Ed., M.Ed. (New Brunswick); Women's Soccer Coach (Part-time)

Hart, Al, B.P.Ed. (New Brunswick); Women's Basketball Coach (Part-time)

Kennedy, Andrew, B.Sc. (Mount Allison); Women's Volleyball Coach (Part-time)

LaLonde, Steve, B.A. (Bishop's); M.Ed. (American Intercontinental University); Football Coach

McMillan, Bruce, B.A., B.Ed. (Mount Allison); Men's Basketball Coach (Part-time)

Peters, John, B.A. (Mount Allison); Certificate of Marine Science Level II (Holland College); NCCP Level III; Varsity Swim Coach

Robinson, Janet, B.P.Ed. (New Brunswick), B.Ed. (Mount Allison); Intramural, Club and Recreation Co-ordinator, Badminton Coach; Business Manager

Seaborn, Susan, B.P.Ed., M.Sc. (Alberta); Sports Information Director



# APPENDIX

## 1 LECTURESHIPS, TRUSTS AND FELLOWSHIPS

### 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, and the Hon. Dr. Flora MacDonald.

### 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.

### 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; and Professor Keith Bradley, Notre Dame University.

### 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.

### 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; and Milo Nikolic, University of Victoria.

### 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).

## 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.

### 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.

### 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.

### 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 Canadian 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-

### 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.

### 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-

## 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-

## 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; and Carrie MacMillan, B.A., M.A., Ph.D., 2005-

## 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-

## 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; and Elmer Melvin Tory, B.Sc., Ph.D., 1989-1996; Margaret Beattie, B.Sc., M.Sc., Ph.D., 2006-

## 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

## 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.

## 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-

## 3 FACULTY AWARDS

### 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; and in 2007 to Louise Wasylkiw, B.A., M.A., Ph.D., Associate Professor of Psychology.

### 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 Kaczmarek-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 Kaczmarek, 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 Blagrove, 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 Kaczmarek, 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 Kaczmarek; Paul Paré Excellence Award to Mohammad Ahmady, Craig Brett, David Fleming, Colin Laroque, Gayle Martin and Stephen Westcott.

## 4 SCHOLARSHIPS

Allard Foundation Scholarship  
 Aliant Scholarship  
 Alumni Entrance Scholarship  
 Alumni Life Membership Scholarship  
 Dr. George Anderson Scholarship  
 Mary Mellish Archibald Scholarship  
 E. Louise Arnett Memorial Scholarship  
 Anne Whittaker Bailey Scholarship  
 Percy Simpson Bailey Scholarship  
 W.W. Beer Scholarship  
 Marjorie Young Bell Scholarship  
 Ralph Pickard Bell Scholarship  
 Lord Bennett Scholarship  
 Malcolm Bent Memorial Scholarship  
 Mary MacNutt Blaikie Scholarship  
 Herbert Blair Scholarship  
 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  
 The Calgary Scholarship  
 G. and G. Cameron Scholarship  
 D. Carlisle Music Enrichment Scholarship  
 Pauline and Wilfred Carter Scholarship  
 Class of 1960 Scholarship  
 Class of 1965 Millennium Scholarship  
 Class of '67 Disability Scholarship  
 Class of 1978 Leadership Scholarship  
 Nathan Cohen Memorial Scholarship  
 Nina F. Cohen Scholarship  
 John Dixon Copp Scholarship  
 Coveyduck Family Scholarship  
 Crake Scholarship  
 Christine Milo Wilson Cruikshank Scholarship  
 Shirley Cumming-Nolan 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

Ellen Annette Driscoll Scholarship  
 Ebbutt Memorial Trust Scholarship  
 Lavinia Estabrooks Scholarship  
 Faculty Scholarship  
 J. Archie Fleming Scholarship  
 William Thomas Ross Flemington Scholarship  
 Fluhman Scholarship  
 Ronald and Frances Ford Family Scholarship  
 Fred S. Fountain Scholarship  
 Vivienne Fowler Scholarship in Music  
 Jeff 'Skip' Fraser, Memorial Scholarship  
 Joe Fraser '44 Memorial Scholarship  
 Gairdner Scholarship  
 F.W. and H.R. George Scholarship  
 Golden Jubilee Scholarship  
 Dr. L.A. Goodridge Scholarship  
 Gwen Gosnell Scholarship  
 Anna Gough Scholarship  
 Graduating Organ Student Scholarship  
 H. Spencley Hamer Scholarship  
 Harrison McCain Foundation Scholarship  
 Leta G. Hill Memorial Scholarship  
 Wallace and Rosena Hill Scholarship  
 Marguerite Hubbard Charitable Foundation Music Scholarship  
 Sidney W. Hunton Scholarship  
 Imbeault/NB Hockey Central Midget Hockey League Scholarship  
 Imbeault Family Foundation/Imvescor/Pizza Delight Award  
 Mary Margaret (Peggy Mackenzie) Irvine Scholarship  
 R.A. Jodrey Scholarship  
 Allison Hartz Johnson Scholarship  
 Eileen Elizabeth Hesler Memorial Scholarship  
 Margaret Elva Hesler Memorial Scholarship  
 Ron Joyce Scholarship  
 J. James Keith Scholarship  
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 R.W. and Ruth Lister Scholarship  
 Myrtle Lockerby Scholarship in Music  
 Grace Annie Lockhart Memorial Scholarship  
 London Life Business Education Scholarship  
 Rouie Adair Long Scholarship  
 Rouie Adair Long Student Research Award  
 Erma Westhaver Loomis Scholarship  
 Elizabeth Lovitt Scholarship  
 Stuart Lowerison Scholarship  
 Donald MacGregor Scholarship  
 L.A. Machum Scholarship  
 Margaret and Malcolm MacIntyre Scholarship  
 Donald MacLauchlan Scholarship  
 Alastair MacLeod Scholarship  
 Maple Leaf Foods Scholarship  
 Robert A. Marsh Scholarship  
 L. W. McAnn Scholarship  
 Mary K. McKean Scholarship  
 Patricia Saunders McKinna Music Scholarship  
 Mr. and Mrs. S.B. Mitra Scholarship  
 Nathaniel Morgan Scholarship  
 Mount Allison Scholarship  
 MTT Scholarship  
 Gladys Muttart Scholarship  
 NB Tel Centennial Scholarship  
 NB Tel Student Research Scholarship  
 David Neale Scholarship  
 New Brunswick School Trustee Association Scholarship  
 Nova Scotia Power Research Scholarship  
 G. J. Oulton Scholarship  
 T.B. Parlee Scholarship  
 Donald D. Patterson Scholarship  
 H. P. and L. G. Patterson Scholarship  
 Lloyd T. Pearce Scholarship  
 David K. Pickard Scholarship  
 Mary Emerancy Pickard Scholarship  
 Herbert L. Pottle Scholarship  
 PricewaterhouseCoopers Scholarship  
 E. B. Pulford Scholarship  
 Margaret M. Roberts Scholarship  
 Jennie Robinson Quinn Scholarship  
 Charles Gordan Rand Scholarship  
 The Rand Family Scholarship  
 R.H.W. Foundation Scholarship  
 John J.E. Risser Scholarship  
 George Victor Ross Scholarship  
 Ruggles Gates Scholarship  
 Eleanor Sharp Scholarship  
 Herbert Sharp Scholarship  
 Shenton Scholarship  
 John R. Siggins Scholarship  
 Arthur W. and Sarah Smith Scholarship  
 Sobey Scholarship  
 Sobey Performance Scholarship  
 Edgar F. Sparkes Memorial Scholarship  
 Margaret Sterns Peake Scholarship  
 J. J. Stewart Scholarship  
 Stiles Towse Scholarship  
 George J. Trueman Scholarship  
 Canadian University Women's (Sackville) Scholarship  
 Wallace Weekend Scholarship  
 R. Sterling Walls Scholarship  
 M.T. Walshman Scholarship  
 Jean T. Ward Scholarship  
 Weston Family Scholarship  
 R.G.G. Wilkinson Scholarship  
 Robert and Peggy Winters Scholarship  
 Wood Memorial Scholarship  
 Don Wright Scholarship  
 Clarence and Muriel Wry Scholarship  
 Angus Stuart Young Scholarship  
 Chris Young Memorial Academic Scholarship

## 5 BURSARIES

George Anderson Bursary  
 Athletic Achievement Award  
 Kay Beaman Memorial Bursary

Clifford Belding Bursary  
 Stephen Bird Bursary  
 Birks Family Bursary  
 J.J. Blackburn Bursary  
 Charles H. Blakeney 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  
 Catherine Callbeck Bursary  
 Aubrey and Nancy Cameron Bursary  
 Kathleen Cameron Bursary  
 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 '55 Bursary  
 Class of '58 Bursary  
 Class of '59 Bursary  
 Class of '61 Bursary  
 Class of '63 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  
 Purdy Crawford Bursary  
 Dr. William (Bill) Crawford Bursary  
 Eric Dennis Memorial Bursary  
 Annie A. Dickson Bursary  
 J.L. Dixon Bursary  
 Ellen A. Driscoll Bursary  
 Margaret Duvar Bursary  
 David Ebert Bursary  
 Margaret Evans Memorial Bursary  
 Facilities Management Bursary  
 Natalie LeBlanc ForreSTALL Fine Arts Bursary  
 John A. Fraser Memorial Fund  
 Fundy Bursary  
 Harvey Gilmour Bursary  
 Dr. Ruth M. Goldbloom O.C. Bursary Fund  
 Donald T. Goodwin Bursary  
 Guardian Capital Inc Bursary  
 A. and T. Harrison Bursary  
 G.R. Hart Bursary  
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 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  
 Elaine and Scott MacDonald Bursary  
 Stanley H. MacDonald Bursary  
 Christine MacInnis Memorial Bursary  
 Iver MacIver Bursary  
 Julia MacLauchlan and Warren MacKenzie Bursary  
 Adele MacLennan Bursary  
 Jean Manuel Memorial Bursary  
 Henri and Jeannette Marcotte Bursary  
 Ralph Marshall Bursary  
 Mature Student Bursary  
 A.R. McClellan 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 Bursary  
 Robert M. Ogilvie Bursary  
 Doris M. Pickup Memorial Bursary  
 Muriel F. Pottle Bursary  
 Project Rebuild Bursary  
 Ivan C. Rand Bursary  
 Mel and Pauline Rice Bursary  
 Marjorie Wry Robertson Bursary  
 Sally Rodd Bursary  
 Thomas and Jean Rose Bursary  
 Sackville Business Bursary  
 Sawdon 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 Bursary  
 Rodger Taylor Bursary  
 TD Bank Financial Group Bursary  
 E. Margaret (Jewett) Underwood Bursary  
 Joseph Samuel and Cora Vallis Bursary  
 R. Sterling Walls Bursary  
 Avarad 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

## 6 PRE-THEOLOGICAL FUNDS

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

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## 7 PRIZES

Francis S. Allison Award  
Ambassador of France  
Ambassador of Spain  
Ambassador of Switzerland  
Donald A. Anderson Prize  
Department of Anthropology Prize  
John P. Asimakos Award  
C.F. Allison Award Prize  
Ada Ayer Prize  
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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, Music and Drama  
Crake Foundation W.B. Sawdon Prize  
W.S.H. Crawford Humanitarian Prize  
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David Ebert Memorial Prize  
Ernst and Young Prize  
Lillian May Fancy Award  
Fensom Research Prize  
Robert and Margaret Fleming Prize  
Donald T. Goodwin Prize  
Governor General's Gold Medal  
Graham Atlantic Writing Prize  
Graham Memorial Prize  
Aiko Grant Prize for Japanese Studies  
Benjamin Hertz Prize  
Frances Louise Hickey Prize  
James R. Inch Memorial Prize  
I.O.D.E. Prize  
Henry D. Larsen Prize  
Hibbert C. Laurence Prize  
Alden Leard Memorial Prize  
Reverend Stephen Lisson Award  
Bruce I. MacDonald Prize  
Cathy MacDonald-Arsenault Memorial Prize  
Gordon Manson Award  
Marster Prize for Humour  
George Everett Matthews Award  
H.W. McKeil (Women's Studies) Prize  
John Wesley McLeod Prize  
Reginald Miller Management Prize  
Prize of the Department of Modern Languages and Literatures  
Moncton Jazz and Blues Festival Award  
John C.G. Moore Prize  
Mount Allison Conservatory Prize  
Music History Essay Prize  
N.B.I.C.A. Prize  
Newbould Prize in British History  
E. George Nichols Prize in Psychology  
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Philosophy Prize  
Muriel Hewson Philp Prize  
Province of Quebec in the Atlantic Provinces  
Donna L. Purdy Memorial Award  
Beth Robinson Award  
W. J. Robinson Prize  
Harold M. Rogers Memorial Prize  
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William Morley Tweedie Medal  
Tyler Prize  
Dr. R.N. Varma Gold Medal in Physics  
Weeks Prize  
Wightman Prize  
Laura Sofia Wood Prize

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