



2003 - 2004

ACADEMIC
CALENDAR

Sackville, New Brunswick, Canada

Academic Calendar 2003-2004

Mount Allison University

Published April 2003

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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

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. The past few years have witnessed a number of improvements to the facilities. Almost \$25 million was spent on much-needed repairs to buildings and grounds, including residences. A three-phase project to upgrade the underground steam and electrical tunnels was completed, and the University seized this opportunity to spruce up the landscaping, particularly in the heart of the campus. Improvements continue to take place to enhance the learning environment. For example, the opening of the Dr. Y.S. Wu Teaching Centre in 1996 provides faculty and students with state-of-the-art facilities for teaching and learning. 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-

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-

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

GLOSSARY OF ACADEMIC TERMS

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 programmes 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 returning to Good Standing.

Academic Semester

Either the September to December or the January to April portion of an academic year.

Academic Suspension

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

Academic Year

The academic session which last from September through April.

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

Minor

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

Prerequisite

A course or 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 Programme Coordinator must be obtained.

Registration

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

Sessional 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 during the academic session.

Summer Session

The academic session that last from the beginning of July to mid-August.

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.

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>. Application forms and a prospectus providing full information on admissions procedures are available from the Office of Student Services and on the web at <<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, and work experiences.

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 Students with Learning Disabilities

Applications from students identified as having specific learning disabilities are considered individually. Students must include an assessment from the high school made within the previous year, detailing the type of learning disability, the techniques used to compensate for it, and the special requirements or considerations

Saskatchewan: Five academic 30-level subjects.

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

Ontario: Five academic OAC subjects, or five academic grade 12-level

4 FEES

The following sections deal with fees, refunds and related matters. We want to ensure that the process of registering students in courses and residences goes as smoothly as possible. To ensure that this is the case, 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 Mount Allison University cannot 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

For fee administration purposes students enrolled in nine or more credits in a semester, including credits for Continuing and Distance Education courses, are full-time for that semester provided they are registered in at least two on-campus courses. All other students are

2002/03 room communications and meal plan fees for the full academic year. They are subject to change for the 2003/04 academic year.

Room	
Double	\$3,140.00
Single	\$3,690.00
Super-single	\$3,890.00
Communications Fee	\$280.00

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

Meals	
19 meals per week	\$2,920.00
14 meals per week	\$2,870.00

All students with a meal plan will be charged for the 19 meals per week plan. A credit of \$50 for transferring to the 14 meals per week plan will

University or contact the Financial Aid Officer 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 will 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 programme, will 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.

4.4.4 Appeals of Academic Standing

Letters of appeal from students appealing their academic standing at the end of the academic year 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 Academic Withdrawals

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

or by leaving a voice mail message at the Office of Student Services; phone 506-364-2279, or 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 semester who subsequently withdraw should contact the Office of Student Services regarding their charges for the semester. Any inquiries should be directed to the Office of Student Services.

4.

5.5 THE DONALD A. CAMERON STUDENT
LOAN

6 ACADEMIC REGULATIONS

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

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.

6.1.4 Determining Year Level

Students must have earned 24 credits to register in second year, 54 to register in third year, and 84 to register in fourth year.

6.1.5 Normal Course Loads and Over Loads

Full-time students are expected to register for the equivalent of 30 credits in the September through April academic year, normally 15 credits per term.

- a) Students in first year will not normally be permitted to register for more than 15 credits per term.
- b) Students in years 2 and 3 may register for up to 18 credits per term, provided they have attained a GPA of at least 3.0 in the previous term. Students who do not meet this requirement must have permission from the appropriate Academic Dean in order to register for overload credits.
- c) For students with fourth-year standing, no minimum GPA is required to register for up to 3 credits overload per term. The permission of the appropriate Academic Dean is required for registration above a 3 credits overload per term. Students in any programme may add ensemble credits in Music to a normal course load.

- d) For overloads in excess of 6 credits (3 credits per semester) for the September through April academic year, additional fees will be charged. (see Fees section)

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.

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/PROGRAMMES

6.2.1 Deadline for Registration Changes

Registration changes are allowed for 3 credit courses during the first week of classes of either term or for 6 credit courses during the first two weeks of first term. Application must be made to the Office of Student Services.

6.2.2 Withdrawal Without Penalty

All students registered during the regular academic session may withdraw without academic penalty from a three credit course before the end of the eighth week of classes and from a 6 credit course before the end of the second week of classes in the second term. The withdrawal deadline for a full year 3 credit course is the same as for a 6 credit course. To withdraw from a course a student must submit written notification to the Office of Student Services. "W" will be recorded on the transcript. 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 Academic Dean for a "W" designation.

- 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)

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 web at <http://www.mta.ca/administration/sas/Form.html>. 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 fulfil prerequisite requirements. Otherwise, written permission of the appropriate Department or Programme Coordinator must be obtained.

6.6 DEGREE REQUIREMENTS

6.6.1 Credits Required for a Degree

All undergraduate degrees require completion of 120 credits.

6.6.2 Additional Requirements

Students must complete at Mount Allison at least half the credits required for a degree. Third and fourth year courses will normally be completed at Mount Allison.

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 programme description, all courses specified in the programme are included in the calculation of the Honours average. When a thesis is part of the programme, 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 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 first 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:

- a) the student should have demonstrated strong academic ability and must be approved by an Academic Dean.
- b) the student must fulfill all the requirements for the second degree
- c) the student must complete 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.

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 programme 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 web at: <http://www.mta.ca/administration/sas/Form.html>

6.11 GRADING SYSTEM

Letter Grade	Descriptor	GPA Equivalent
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
W	Withdrawal from a course after course drop deadline, without academic penalty	excluded from the GPA
X	withdrawal from University	excluded from the GPA
*	indicates repeated course	

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

All references regarding standards of performance requirements are related to work attempted during the September through April academic year. When students have attempted at least 18 credits, they will be assessed at the end of that academic year.

6.12.2 Good Standing

Students remain in Good Standing if they pass 18 credits and attain a minimum grade point average (GPA) of 1.5. Note: Students must be in Good Standing and have permission of the university for study abroad programmes 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 courses offered by Mount Allison in the Spring and Summer Sessions through Continuing and Distance Education. Exceptions must be approved by the 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. Students in these categories are in Unsatisfactory Academic Standing and the designated category will be recorded on their transcripts. 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 6.12.7 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 4.4.5 in the Fees section).

6.12.4 Academic Probation

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

- pass fewer than 18 credits but obtain a grade point average (GPA) of at least 1.0, or
- pass 18 or more credits but with a grade point average (GPA) of less than 1.5.

With the exception of those in their senior year, students who are on Academic Probation are not permitted to register for more than the normal course load. To return to Good Standing, students on Academic Probation must pass 18 credits in their probationary period, and attain a minimum grade point average (GPA) of 1.5. Students on Academic Probation must obtain written permission from the Academic Dean to be eligible to apply to take courses on Letter of Permission during

the probationary period or to register for courses offered by Mount Allison through Continuing and Distance Education, including those offered during the Spring and Summer Sessions.

6.12.5 Academic Suspension

Students will be placed on Academic Suspension if in any academic year they pass fewer than 18 credits and obtain a grade point average (GPA) of less than 1.0. Students who are on Academic Probation will be placed on Academic Suspension if they obtain a grade point average (GPA) of less than 1.5 or pass fewer than 18 credits. 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. If accepted, students will re-enter on Academic Probation. 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 granted re-admission to the university. To seek re-admission for the study session commencing in September, students must complete a Former Student Application form and the Supplementary Questionnaire. These must be received by the Office of Student Services no later than June 15 of that year. Application forms are available on the web at:

<<http://www.mta.ca/administration/sas/form.html>>.

6.12.6 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 granted re-admission to the university. To seek re-admission for the study session commencing in September, students should complete a Former Student Application form and the Supplementary Questionnaire. These should be received by the Office of Student Services no later than June 15 of that year. Students returning after dismissal will be readmitted on Academic Probation. If they fail to achieve Good Standing, they will be refused further registration at Mount Allison.

6.12.7 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.

6.12.8 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, for the study session commencing in September, students should complete a Former Student Application form and the Supplementary Questionnaire. These should be received by the Office of Student Services no later than June 15 of that year: the Admissions and Re-admissions Committee will review the academic record only. Application forms are available on the web at <http://www.mta.ca/administration/sas/form.html>.

6.12.9 Deans' List

To be placed on the Deans' List, a student must carry thirty credits during the regular academic year (September through April) and achieve a minimum GPA of 3.5 on that work. The Deans' List carries no financial award.

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 deliberate 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 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 imposed 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.

6.14 EXAMINATION REGULATIONS

Note: For information regarding examination re-read regulations see Regulation 6.11.8.

6.14.1 Scheduled Tests and Final Examinations

No in-class or take-home tests worth more than 10% of the final grade, and no final tests or 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.

6.14.2 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.

6.14.3 Deferred Final Examinations

The Registrar, after consultation with the instructor, may permit a student to write a deferred final examination as a result of illness or for compassionate reasons. In all cases of illness a doctor's certificate explicitly covering inability to write the examination on the day of writing must be submitted to the Registrar before the end of the examination period. Deferred examinations will be written at a time determined by the Registrar after consultation with the student and the instructor and will be given a letter grade. A deferred examination in a first term 3 credit course will normally be written during the first week of second term. A deferred examination in second term or full year courses must normally be written by the end of May, to be arranged by the Registrar in consultation with the instructor and the student. If the examination cannot be written by that time, the student's academic standing will remain as 'Non Assessed'. 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 based on course work completed prior to the final examination.

6.14.4 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 and the instructor may agree to extend the deadlines for completion of the work for up to four weeks beyond the original deadlines. In all cases of illness, a doctor's certificate explicitly covering the inability to complete the work must be submitted to the Registrar before the end of the examination period. If the work is not completed by the specified deadline, a notation of 'INC'- Incomplete, will be recorded on the transcript until a final grade is submitted. If no grade is submitted, the notation of 'INC' remains on the transcript with a grade point value of '0.0' and counts as a failing grade. If the student is unable to complete the work by the specified deadline, the student may request an extension to the deadline. An extension may be granted on recommendation of the instructor and with approval by the Registrar, on the condition that adequate medical or other documentation is provided to support such a request.

6.14.5 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.

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.

6.14.6 Special Examinations

Examinations which are exceptions to, or are not covered by, Sections 6.14.3 or 6.14.5 are special examinations. Application must be made in writing to the Registrar. Application forms are available on the web at <http://www.mta.ca/administration/sas/form.html>.

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 programme. 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.

6.15 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.

6.16 TRANSCRIPTS

6.16.1 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.

6.16.2 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.

6.16.3 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 web at <http://www.mta.ca/administration/sas/form.html>

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.

6.17 REPLACEMENT/DUPLICATE DIPLOMAS

If a duplicate or replacement diploma is required the following procedure must be complied with:

- 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.

6.18 GRADUATION/CONVOCATION

6.18.1 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 web at

<http://www.mta.ca/administration/sas/form.html>

6.18.2 Completed Degree Requirements

All prospective degree and/or certificate candidates are responsible for completing degree requirements according to the regulations pertaining to their programme. 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

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> 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

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7 ACADEMIC PROGRAMMES

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 programmes should consult the overall degree requirements outlined in this section plus the more specific Minor, Major and Honours requirements listed per programme in the Programmes/Courses of Instruction section which follows. Those students planning further study in Medicine, Law, Dentistry and other professional programmes 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 Programmes

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 both 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 last through the entire year and have a fourth digit of three. One credit Music Ensemble courses have a fourth digit of nine and last throughout both terms.

Note: Both fall and Winter terms must be completed to obtain credit for full year courses.

Requirements for degree programmes 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 Programme Coordinator 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 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 programme:

- a) The Bachelor's degree requires the completion of 120 credits worth of course work.
- b) Six credits (the equivalent of a full-year course) must be earned in each of the four distribution areas: Arts and Letters, Humanities,

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 Science

- Anthropology
- Commerce
- Economics
- Environmental Studies
- Geography
- International Relations
- Political Science
- Sociology
- Women's Studies

Science

- Biochemistry
- Biology
- Chemistry
- Computer Science
- Geoscience
- Mathematics
- Physics
- Psychology

Note: For distribution requirement purposes, a maximum of 6 credits from the Women's Studies courses can be applied to meet the distribution requirements for either Humanities or Social Science, 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,

7.2.4 Credits Required for a Major and Minor

The credits required for a B.A. include those required for a Major Area of Study [see list under 7.2.13], plus the credits required for a Minor from any other programme [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 programme will still be at least 15 credits greater than the total for the Major. The Major Area of Study 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 Area of Study from any other programme [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

7.2.11 Interdisciplinary Major Area of Study

An Interdisciplinary Major Area of Study 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 programmes are authorized in advance by Senate.

7.2.12 Specially Approved Major Area of Study

A Specially Approved Major Area of Study 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 Major Areas of Study Available for the B.A.

For the B.A., the following Major Areas of Study are available. For a complete list of courses required for each Major, see the appropriate heading under Programmes and Courses of Instruction.

Disciplinary

- Anthropology
- Art History
- Classical Studies
- Commerce
- Computer Science
- Economics
- English
- Fine Arts
- French Studies
- Geography
- German Studies
- 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
- 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 in Arts

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 programmes 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

Japanese Studies
Science, Technology and Society

7.2.19 Disciplinary and Interdisciplinary Honours Programmes

Honours programmes 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 postgraduate 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 programme, 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 Programme should consult as early as possible with the designated Programme Advisor regarding the prescribed selection of courses.

7.2.20 Honours Programmes Available for the B.A.

Under the B.A. Degree, the following Honours Programmes 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 Programme, see the appropriate heading under Programmes and Courses of Instruction.

Disciplinary

Anthropology
Classical Studies
Economics
English
French Studies
Geography
German Studies
History
Mathematics
Music
Philosophy
Political Science
Psychology
Religious Studies
Sociology

Interdisciplinary

American Studies
Canadian Studies
Computer Science and Mathematics
International Relations
Sociology/Anthropology

7.3 BACHELOR OF SCIENCE

7.3.1 Qualifications for a B.Sc. Degree

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

- 120 credits including
- 6 credits (the equivalent of a full-year course) must be earned in each of the four distribution areas: Arts and Letters, Humanities, Social Science 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 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 programme. It is also possible for students to design a programme 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
Music

Humanities

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

Social Science

Anthropology
Commerce
Economics
Geography
Political Science
Sociology
Women's Studies

Science

Biochemistry
Biology
Chemistry
Computer Science
Environmental Science
Geoscience
Mathematics
Physics
Psychology

Note: For distribution requirement purposes, a maximum of 6 credits from the Women's Studies 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:

- a) Chemistry: 6 credits from Chemistry 1001,1021
- b) Math/Comp: 3 credits from Mathematics 1111 and 3 additional credits from Mathematics 1121, 1131, 2211, 2221, 2311, Computer Science 1711
- c) Physics: 3 credits from Physics 1051, and 3 additional credits from Physics 1551, 3511, 3521

Students' choice 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.

7.3.6 Credits Required for a Major and Minor

The credits required for a B.Sc. include those required for a Major Area of Study [see list under 7.3.16], plus the credits required for a Minor from any other programme [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 programme will still be at least 15 credits greater than the total for the Major. The Major Area of Study 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 Area of Study from any other programme [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 programme 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 programme 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, all courses offered in the following disciplines are considered as Science credits: Biochemistry, Biology, Chemistry, Computer Science, Environmental Science, Geoscience, Mathematics, Physics, and Psychology. The following courses outside of these disciplines may also count as Science credits: Commerce 3411, Economics 3821, 4700, 4801, 4811, Philosophy 2511, 3511.

7.3.12 The Major Area of Study in Science for the B.Sc.

The Major Area of Study 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 Areas of Study 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 Area of Study in Science

A Disciplinary Major Area of Study 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 Area of Study for 18 credits, usually drawn from outside the Major discipline, intended to complement and enrich the Major.

7.3.14 Interdisciplinary Major Area of Study

An Interdisciplinary Major Area of Study 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 programmes are authorized in advance by Senate.

7.3.15 Specially Approved Major Area of Study

A Specially Approved Major Area of Study 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 Major Areas of Study available for the B.Sc.

For the B.Sc., the following Major Areas of Study are available. For a complete listing of courses required for each Major, see the appropriate heading under Programmes and Courses of Instruction.

Disciplinary

Biology
Chemistry
Computer Science
Mathematics
Physics
Psychology

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Interdisciplinary

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 programmes 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. W K H % 6 F -h 68025 ye5 Tf 100136 s w71 0.51hyfor tts of whicMin

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 programme of study must be completed within five years.

7.4.4 Course and Thesis Requirements

A research programme, a thesis based on this research, and at least four 3 credit graduate courses must be completed by all candidates. 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

3961 may be counted as Commerce electives for students taking a Bachelor of Commerce or a Major or Minor in Commerce.

7.5.7 Commerce Degree Core Requirements

The following Core Commerce courses (the equivalent of 42 credits, 24 of which are in Commerce) are required for all students completing a Commerce Degree:

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.

- b) Music History and Literature
 3001 Introduction to Music in Canada
 3221 Selected Composer Study I-II*
 3231 Selected Genre Study I-II*
 4221 Seminar in Music History I-II*
 * These courses may be repeated if topic differs

- c) Music Education
 The following three-credit electives may be offered in one term only or over two terms. Please consult the timetable for specific information.

3303 Vocal Methods
 3311 Elementary Methods
 3321 Brass Methods
 3333 Woodwind Methods
 3343 String Methods
 4311 Secondary Methods
 4353 Percussion Methods
 4363 Keyboard Methods

- d) Performance Electives
 The following electives may be offered in one term only or over two terms. Please consult the timetable for specific information.

2603 Accompaniment I
 3603 Accompaniment II
 4603 Accompaniment III
 2613 Chamber Music I
 3613 Chamber Music II
 4613 Chamber Music III
 2521 Diction for Singers
 3413 Choral Conducting
 3423 Instrumental Conducting
 1629-4629 Chamber Orchestra
 1639-4639 Symphonic Band
 1649-4649 Instrumental Jazz Ensemble
 1659-4659 Chamber Choir
 1669-4669 Choral Society
 1689-4689 Large Ensemble of Like Instruments
 1699-4699 Vocal Jazz Ensemble
 2679-4679 Opera Workshop

7.6.6 Group C. Non-music Electives

(30-33 credits) The non-Music courses in a programme leading to a Bachelor of Music have a twofold objective:

- a) to broaden the student's general knowledge; and
 b) to allow students to develop a Minor area of study

Note: The Bachelor of Music may be awarded with Distinction. See Regulation 6.7.

7.6.7 Bachelor of Arts with Major in Music

This programme emphasizes the historical and theoretical aspects of the art of music. It is designed for the student who wishes a Major in Music along with more Arts and Science courses than the Bachelor of Music programme allows. Although no practical courses in Music are essential in this programme, it is highly desirable that the student have acquired some proficiency on an instrument or in voice prior to enrolling. Although this programme is not designed with a particular professional goal, it may lead to a career in music librarianship, music

journalism, music therapy, music production in television and radio, music publishing, instrument manufacturing, or graduate work in musicology. For a complete listing of courses required for the B.A. Major in Music Programme see the appropriate heading under Programmes and Courses of Instruction.

7.6.8 Minor in Music

A Minor in Music is available to students in any program. For a complete listing of courses required for the Minor in Music see the appropriate heading under Programmes and Courses of Instruction.

7.6.9 Bachelor of Arts with Honours in Music

Students considering an Honours Programme should consult as early as possible with the Head of the Department regarding the application process and admission criteria. See section 7.1.2 regarding declaration of intention to pursue Honours. For a complete listing of courses required for the B.A. Honours in Music Programme see the appropriate heading under Programmes and Courses of Instruction.

7.6.10 Recitals

In addition to performing on Collegium programs, qualified students are given the opportunity of presenting full-length solo recitals, mini-recitals, participating in half-recitals, or performing in shared recitals. To be eligible to participate in a half-recital, a student must be recommended by his/her Applied Music teacher, must have achieved a grade point average of 3.7, or better, in Music 2500 (Chief Practical II), or 3500 (Chief Practical III) and must have participated in two Collegia or the equivalent, since enrolling in the Bachelor of Music program. Students enrolling in 4590 must attain at least A- in Music 3500, and must have participated in at least one half-recital. Students enrolling in 4593 must attain at least A- in Music 3500, and must have participated in at least two collegia concerts (or the equivalent) since enrolling in the Bachelor of Music programme. Full-length recitals are

thoroughly in a reasonable amount of time with the use of a dictionary,

- c) write a letter or report that is free of grammatical and stylistic errors,
- d) participate in conversation by expressing complex ideas, developing an argument, and answering questions.

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

8 PROGRAMMES AND COURSES OF INSTRUCTION

This section provides alphabetically ordered descriptions of all Minor, Major and Honours programmes, 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.

AMERICAN STUDIES

Interdisciplinary B.A. Programmes

MINOR in American Studies is 24 credits earned as follows:

- 6 from English 3711, 3721
- 9 from History 1601, 1651, 2510, 3520
- 9 from Art History 3061, 3071, English 4701, Geography 3301, History 3511, 3521, 3531, 3561, 4500, 4510, 4571 Philosophy 3421, 3451, Political 2201

MAJOR AREA OF STUDY in American Studies is 60 credits earned as follows:

- 6 from English 3711, 3721
- 6 from Geography 2311, 3301
- 9 from History 1601, 1651, 2510, 3520
- 3 from Philosophy 3421, 3451
- 3 from Political Science 2201
- 33 from English 3871, 3881, 3921, 3931, 4701, Fine Arts 3061, 3071, History 3511, 3520, 3521, 3531, 3561, 4500, 4510, 4571 Religious Studies 2031

HONOURS in American Studies is 78 credits earned as follows:

- 60 credits as in the Major, plus:
- 18 from History 4500, 4990, and 6 credits from Economics, English, Philosophy or Political Science chosen in consultation with the Programme 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 Programme Coordinator must be obtained.

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. Programmes

MINOR in Anthropology is 24 credits earned as follows:

- 3 from Anthropology 1011
- 3 from Social Science at the 1/2000 level
- 6 from Anthropology at the 2000 level
- 6 from Anthropology 2801, 3021, 3031, 3311, 3821, 3831, 3841, 3851, 3861, 4021, 4311
- 6 from Anthropology at the 3/4000 level, chosen in consultation with the Programme Advisor.

MAJOR AREA OF STUDY in Anthropology is 60 credits earned as follows:

- 3 from Anthropology 1011
- 3 from Social Science at the 1/2000 level
- 6 from Anthropology at the 2000 level
- 9 from Anthropology 3311, 3021, 3031
- 6 from Anthropology 3811, 3821, 3831, 3841, 3851, 3861
- 9 from Anthropology at the 3/4000 level
- 6 from Anthropology at the 4000 level
- 18 credits from complementary courses in Social Science, Humanities, Arts and Letters, and 2 chosen in consultation with the Programme Advisor.

HONOURS in Anthropology (Thesis Option) is 66 credits earned as follows:

- 42 credits as in the eight lines of the Major, plus:
- 3 additional credits from Anthropology 4021, 4311
- 15 from Anthropology at the 3/4000 levels chosen in consultation with the Programme Advisor
- 6 from Anthropology 4990

HONOURS in Anthropology (Course Option) is 66 credits earned as follows:

- 42 credits as in the eight lines of the Major, plus:
- 3 from Anthropology 4021, 4311
- 21 from Anthropology at the 3/4000 level chosen in consultation with the Programme Advisor.

Note: The Honours Average will be calculated on all courses required for Honours that have been taken above the 1000 level.

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 Programme Coordinator must be obtained.

ANTHROPOLOGY COURSES

ANTH 1011 (3CR)

INTRODUCTION TO ANTHROPOLOGY

The course is designed to introduce students to the major fields of anthropology (physical, archaeological, linguistic and cultural) and to the major domains of cultural and social anthropology (types of society, social change, and political, economic, kinship and religious institutions).

Exclusion: SOAN 1011

ANTH 2401 (3CR)

ANTHROPOLOGY AND THE LIFE COURSE

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.

Prereq: ANTH 1011 and 3 credits in Social Science; or permission of the Department.

Exclusion: SOAN 2401

ANTH 2501 (3CR)

ENVIRONMENT AND SOCIETY

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.

Prereq: Anthropology 1011 and 3 credits in Social Science; or permission of the Department.

Exclusion: SOAN 2501

ANTH 2521 (3CR)

ANTHROPOLOGICAL PERSPECTIVES ON DEVELOPMENT

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.

Prereq: ANTH 1011 and 3 credits in Social Science; or permission of the Department.

Exclusion: SOAN 2521

ANTH 2801 (3CR)

ABORIGINAL PEOPLES AND CULTURES OF CANADA

An introduction to traditional and contemporary aboriginal societies and cultures of Canada, with particular attention being paid to their major regional divisions and issues of modernization affecting each.

Prereq: ANTH 1011 and 3 credits in Social Science; or permission of the Department.

ANTH 3021 (3CR)

PERSPECTIVES IN ANTHROPOLOGY

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.

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

Exclusion: SOAN 3021

ANTH 3031 (3CR)

INDIGENOUS KNOWLEDGE SYSTEMS: THEORETICAL AND METHODOLOGICAL ISSUES

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?"

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

Exclusion: SOAN 3031

ANTH 3101 (3CR)

SOCIAL INEQUALITY

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.

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

Exclusion: SOAN 3101

ANTH 3231 (3CR)

CULTURE AND COMMUNICATION

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.

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

Exclusion: SOAN 2231, 3231

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

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.

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

Exclusion: SOAN 3311

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

This course is designed to provide students with an intensive field experience, during which they pursue research on a topic to be chosen by the Instructor. As such, the course is not designed to be offered during normal semester time, but is available to students through Continuing and Distance Education. Completion of ANTH 3311 (Anthropological Research Methods) is recommended before registering for this course.

Prereq: Permission of the Department

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

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.

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

Exclusion: SOAN 3401

ANTH 3421 (3CR)**FOLKLORE**

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.

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

Exclusion: SOAN 3421

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

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.

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

Exclusion: SOAN 3531

ANTH 3541 (3CR)**ETHNOBOTANY**

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.

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

Exclusion: SOAN 3541

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

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.

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

Exclusion: SOAN 3621

ANTH 3811 (3CR)**CARIBBEAN ETHNOGRAPHY**

An introduction to the peoples and cultures of the Caribbean region through both a general review of the region and a detailed and critical analysis of specific ethnographies.

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

Exclusion: SOAN 3811

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

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

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

Exclusion: SOAN 3821

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

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

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

Exclusion: SOAN 3831

ANTH 3841 (3CR)

SOUTHEAST ASIAN ETHNOGRAPHY

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.

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

Exclusion: SOAN 3841

ANTH 3851 (3CR)

ARCTIC ETHNOGRAPHY

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.

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

Exclusion: SOAN 3851

ANTH 3861 (3CR)

AFRICAN ETHNOGRAPHY

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.

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

ANTH 3911 (3CR)

INTERMEDIATE SPECIAL TOPICS IN ANTHROPOLOGY

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.

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

Exclusion: SOAN 3911

ANTH 4021 (3CR)

ANTHROPOLOGICAL THEORY

This seminar course is an advanced consideration of twentieth century anthropology. It explores the emergence and impact of major national styles of anthropological thought as well as the contribution of key individuals.

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

Exclusion: SOAN 4021

ANTH 4311 (3CR)

CRITICAL ETHNOGRAPHY

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.

Prereq: ANTH 3021 or 3031; 3311; 3811 or 3841 or 3851 or 3861 or 3831; or permission of the Department.

Exclusion: SOAN 4311

ANTH 4401 (3CR)

SYMBOLS AND SOCIAL CATEGORIES

This is an advanced course on the social construction of meaning and its structural and interactional consequences. It investigates the underpinnings of culture and the bases of human social action.

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

Exclusion: SOAN 4401

ANTH 4521 (3CR)

ECOLOGICAL ANTHROPOLOGY

An examination of the theoretical assumptions of ecological anthropology and its historical development, through case studies illustrating differing types of adaptations to the environment and differing relations between humans and nature. Current issues in land and resource management on the global and local levels will be examined, as will the role of anthropologists in environmental education and advocacy.

Prereq: ANTH 3021 or 3031; 3311; 3811 or 3841 or 3851 or 3861 or 3831; or permission of the Department.

Exclusion: SOAN 4521

ANTH 4531 (3CR)

CULTURAL ECOLOGY

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.

Prereq: ANTH 3541; or permission of the Department

Exclusion: SOAN 4541

ANTH 4901 (3CR)

ISSUES IN ANTHROPOLOGY

A study of specific issues in Anthropology.

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

Exclusion: SOAN 49(Prereq:)Tj /F1 9.5 Tf 1 0 2ee additional 3000 lv4Tm

ANTH 4990 (6CR)

HONOURS THESIS

Prereq: Permission of the Department.

SOCIOLOGY/ANTHROPOLOGY

Note: Interdisciplinary Major Area of Study and Honours in Sociology/Anthropology are also available. See Sociology/Anthropology.

ART HISTORY

Disciplinary B.A. Programmes

MINOR in Art History is 24 credits earned as follows

- 6 from Art History 2001, 2011
- 18 from Art History at the 3/4000 level, chosen in consultation with the Programme Advisor (Classics 3601, 3611, 3701 and/or 3711 may be included)

MAJOR AREA OF STUDY in Art History is 60 credits earned as follows

- 6 from Art History 2001, 2011
- 36 from Art History at the 3/4000 level, (Classics 3601, 3611, 3701 and/or 3711 may be included)
- 18 from complementary courses in Arts and Letters and Humanities, chosen in consultation with the Programme 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 Programme Coordinator must be obtained.

BIOCHEMISTRY

Biochemistry is the study of the chemicals and chemical processes associated with living organisms.

Interdisciplinary B.Sc. Programmes

MAJOR AREA OF STUDY in Biochemistry is 72 credits earned as follows

- 6 from Biology 1001, 1501
- 6 from Math 1111, 1121, 1131
- 6 from Physics 1051, 1551, 3521

BIOC 4501 (3CR)**METABOLIC REGULATION**

Intact biochemical systems are webs of reactions and interactions functioning both temporally and spatially: biochemical/physiological processes function through finite time, and are molded by distance and volume. The response of biochemical webs of reactions to internal and external information is referred to as metabolic regulation. These responses may take place in a time window measured in seconds or, in the case of seasonal effects, months, and even years. Biochemistry 4501 will examine 'traditional' theories and modeling of regulation, regulation at the substrate, enzyme (particularly phosphorylation networks), gene transcription and protein translation levels. This traditional approach will be compared to alternative systems-based approaches of metabolic control theory. In this light we will look at how animal systems adapt to drastic modification eg. gene knockout or protein over expression and how some of these recent observations pose a serious challenge to conventional biochemical/physiological thinking.

Prereq: BIOC 3501 or permission of the Department.

BIOC 4511 (3CR)**SPECIAL TOPICS IN BIOCHEMISTRY**

This course provides an opportunity for a student to undertake the study of a topic in which she/he has a special interest. The course work will deal with different selected areas in modern Biochemistry. The programme of study will be jointly planned by the student and a faculty member. The content, format, and prerequisite will vary depending upon the particular area of Biochemistry to be covered, but generally will require the agreement of an instructor and permission of the Biochemistry programme director. The course can be carried out in one term or throughout the year for three credits.

BIOC 4521 (3CR)**PROTEIN BIOCHEMISTRY**

The topics covered in Biochemistry 4521 include protein structure (primary, secondary, tertiary and quaternary); the relationship between structure and biological function; enzyme catalysis and mechanism; isolation, purification and characterization of proteins; metabolism of proteins (synthesis and degradation) and recent trends in protein design. This course relies heavily on the internet resources that have become highly developed during the last decade. Students will become familiar with sequence comparison, motif searching and development of visual protein structures constructed from the protein structural data bases available over the web. The laboratory will give students practical experience with the fun and frustration of protein isolation, enzyme purification and kinetics, and protein/ligand binding phenomena.

Prereq: BIOC 3501; or permission of the Department.

BIOC 4541 (3CR)**BIOCHEMICAL ADAPTATION OF ANIMALS**

Recent findings in adaptational biochemistry will be discussed in a seminar format. Emphasis will be placed on the adaptation of organisms to the stresses of oxygen limitation, temperature, salinity and pressure extremes.

Prereq: BIOC 3501 or permission of the Department.

BIOC 4551 (3CR)**PLANT BIOCHEMISTRY**

This course will deal with the role of compartmentation in the regulation of plant metabolism. Following discussion of the plant cell and its organelles, the location of metabolic routes will be examined, including the synthetic and degradative metabolism of carbon and nitrogen compounds. Other topics to be examined will include; membrane structure and transport of metabolites, shuttles and photorespiration; symbiotic metabolism of lichens, root nodules; algal-invertebrate associations. Laboratory studies will complement classroom discussion.

Prereq: BIOC 3501; or permission of the Department.

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

A seminar course for Honours students in Biochemistry, which will critically evaluate a wide range of topics from the current literature. Students will be expected to deliver seminars on topics outside their thesis areas and present preliminary thesis results.

Coreq: Registration in BIOC 4990; or permission of the Department.

BIOC 4990 (6CR)**HONOURS THESIS**

Prereq: Consent of supervising staff member prior to registration and permission of the Chair of the Biochemistry Programme.

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 underlie 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 Handbook and a Programme Advisor before completing registration.

Disciplinary B.Sc. Programmes

MINOR in Biology is 24 credits earned as follows:

- 6 from Biology 1001, 1501
- 3 from Chemistry 1001
- 6 from Biology 2101, 2301, 2401, 2601
- 9 from Biology at the 3/4000 level, chosen in consultation with the Programme Advisor.

MAJOR AREA OF STUDY in Biology is 66 credits earned as follows:

- 6 from Biology 1001, 1501
- 3 from Physics 1051
- 3 from Physics 1551, 3521
- 6 from Math 1111, and three other credits in Math or Computer Science selected from Math 1121, 1131, 2211, 2221, 2311, or Computer Science 1711.
- 9 from Chemistry 1001, 1021, 2101 or 2111
- 3 from Biochemistry 2001
- 12 from Biology 2101, 2301, 2401, 2601
- 6 from Group I Biology courses - Biology 3011, 3021, 3351, 3361, 3371, 3401, 3601, 3711, 3801, 4001, 4101, 4371, 4701, 4711
- 6 from Group II Biology courses - Biology 3111, 3201, 3211, 3311, 3901, 3941, 4201, 4211, 4221, 4301, Biochemistry 3501, 3531, 4501, 4521, 4541, 4551,
- 6 from Group III Biology courses - Biology 3101, 3411, 3451, 3501, 3611, 3651, 3751, 4141, 4151, 4511
- 6 additional credits from Biology at the 3/4000 level

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

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 Continuing and Distance Education and only to non-Science majors.

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

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.

Prereq: BIOL 1001, CHEM 1001; or permission of the Department.

BIOL 2101 (3CR)**POPULATION AND COMMUNITY BIOLOGY**

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.

Prereq: BIOL 1501; or permission of the Department.

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

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.

Prereq: BIOL 1501; or permission of the Department.

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

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.

Prereq: BIOL 1501; or permission of the Department.

BIOL 2601 (3CR)**GENETICS**

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.

Prereq: BIOL 1501, CHEM 1021; or permission of the Department.

BIOL 3011 (3CR)**EVOLUTION**

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.

Prereq: BIOL 2601; or permission of the Department.

BIOL 3021 (3CR)**PALAEONTOLOGY**

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.

Prereq: BIOL 2301 and 2401; or permission of the Department.

BIOL 3101 (3CR)**MICROORGANISMS**

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 occr9ied as well as the equally great diversity of roles performed. Laboratory work will introduce the students to microbiological techniques and methods of identification.

Prereq: BIOC 2001; or permission of the Department.

BIOL 3111 (3CR)**APPLIED MICROBIOLOGY**

Discussion will centre on microorganisms as models to study interrelationships between physiology and ecology of the groups. Students will also be introduced to microorganism growth and the principles of co-ordinated regulation that achieve balanced growth and allow for transition from one environment to another.

Prereq: BIOL 3101; or permission of the Department.

BIOL 3201 (3CR)

ANIMAL PHYSIOLOGY; ADAPTATION AND ENVIRONMENT

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 3451 (3CR)

ENTOMOLOGY

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 3901 (3C R)

PLANT DEVELOPMENT

A lecture and laboratory course designed to explore the question of development of anatomical structures within vascular plants. The role of heredity and environment in signalling pattern development from a single fertilized seed to the multicellular reproductive plant will be discussed. Particular attention will be paid to the function of plant growth factors as signal devices.

Prereq: BIOL 2301 and BIOC 2001; or permission of the Department.

BIOL 3911 (3C R)

PLANTS AND HUMAN SOCIETY

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.

Prereq: First year level Biology; or permission of the Department.

BIOL 3941 (3C R)

PLANT PHYSIOLOGY

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

BIOL

BIOL 5103 (3CR)
GRADUATE STUDIES IN BIOLOGY I

BIOL 5113 (3CR)
GRADUATE STUDIES IN BIOLOGY II

BIOL 5203 (3CR)
GRADUATE STUDIES IN BIOLOGY III

BIOL 5213 (3CR)
GRADUATE STUDIES IN BIOLOGY IV
Prereq: Permission of the Department.

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

CANADIAN PUBLIC POLICY

Interdisciplinary B.A. Programme

MAJOR AREA OF STUDY in CANADIAN PUBLIC POLICY is
60 credits earned as follows

Fine Art 3021, 3031
French 2601, 3711, 3751, 3771
Music 3001

C. Historical Perspectives:

Economics 3611, 3721
English 2801
Fine Art 3021, 3031
Geography 3301, 3511
History 3401, 3411, 3421, 3431, 3441, 3451, 3461, 3501, 4420, 4440,
4450
Political Science 2101, 3101, 3111, 3121, 4100, 4300

D. Social Perspectives:

Economics 2301, 2311, 3101, 3111, 3201, 3211, 3611, 3621, 3721
Geography 3201, 3301, 3511
History 3501
Linguistics 3011
Political Science 2101, 3101, 3111, 3121, 3131, 4100, 4300
Sociology 3111, 3121, 3211, 3521, 3701, 4531
Anthropology 2801, 3821, 3851

HONOURS in Canadian Studies is 72 credits earned
as follows:

- 60 credits as in the Major, plus
- 6 further from Canadian Studies 3101, 3111, 3121, 3301, 3311,
3401, 4250/4251, 4651, 4661, 4950/4951
- 6 from Canadian Studies 4990

Courses chosen in consultation with the Programme 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 Programme Coordinator must be
obtained.

CANADIAN STUDIES COURSES

CANA 2001 (3CR)

CANADA AND THE MODERN AGE: AN

CANA 3401 (3CR)

CONTEMPORARY CANADIAN ISSUES

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

Prereq: Second-year standing, including at least 6 credits in Humanities and/or Social Sciences, or permission of the Coordinator of the Canadian Studies programme.

Exclusion: CANA 3400

CANA 3411 (3CR)

SPORT IN CANADIAN SOCIETY

Sport occupies a central role in Canadian culture that extends beyond the mythological popularity of hockey. The sporting culture of Canada affects the lived experiences of Canadians in ways ranging from physical education to Canada's international reputation to gender roles. Sport has become an important part of the service sector economy and has long been a source of local community and national pride. This course explores the role of sport in Canadian society.

Prereq: CANA 2001, 2011(or CANA 2000)

CANA 4250/4251 (6/3CR)

SPECIAL TOPICS IN CANADIAN STUDIES

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

Prereq: CANA 2000 or CANA 2001 and 2011, or permission of the Coordinator of the Canadian Studies teaching programme.

CANA 4600 (6CR)

INTERDISCIPLINARY SEMINAR ON MAJOR CANADIAN ISSUES

An interdisciplinary seminar on questions of national importance.

Prereq: CANA 2000 or CANA 2001 and 2011, or permission of the Coordinator of the Canadian Studies teaching programme.

CANA 4651 (3CR)

REGIONAL PROTEST IN ATLANTIC CANADA

This course explores the dynamics of political protest in Atlantic Canada as a response to regional economic underdevelopment. It looks specifically at the origins of Atlantic economic disparity, relations

Fine Arts

- 3021 Canadian Art from its beginnings to the 1960's
- 3031 Canadian Art from the 1960's to the present.
- 4951 Independent Study *

3521 Communities

- 3701 Law in Canadian Society
- 4531 Education and Society

* Acceptable when a Canadian topic involved.

French

- 1600 Preparatory French
- 1700 Intermediate French
- 2401 Langue et Lectures
- 2501 Initiation a la Composition
- 2601 Initiation a L'analyse Litteraire
- 3711 Roman et Nouvelle du Canada Français
- 3751 La Poésie du Canada Français
- 3771 Théâtre du Canada Français
- 4901 Selected Topics *

Geography

- 1201 Human Geography
- 2311 Cultural Geography
- 3201 Geography and Public Policy
- 3301 Historical Geography of North America
- 3511 Rural and Small Town Canada
- 4311 Canadian Regionalism
- 4950 Special Topics in Geography *

History

- 2410 Canada from the Prehistoric to the Present
- 3411 Colonial New France
- 3420 The Atlantic Region
- 3421 Canada from Conquest to Confederation
- 3431 Quebec from Confederation to Separatism
- 3441 Modern Canada
- 3461 Canadian External Relations
- 3501 Social and Political History of Food in North America
- 4401 Canada and the Pacific Rim
- 4420 The Atlantic Provinces
- 4440 Modern Canada
- 4450 Canadian Courts and the Constitution
- 4950 Special Topics *

Linguistics

- 3011 Language and Society

Music

- 3000 Introduction to Music in Canada
- 4951 Special Topics *

Political Science

- 2101 Canadian Government and Politics
- 3101 Political Leadership in Canada
- 3111 Current Topics in Canadian Federalism
- 3121 Canadian Electoral Studies
- 3031 Women and Politics
- 4100 Advanced Topics in Canadian Federalism
- 4300 Canadian Foreign Policy
- 4950 Directed Reading on Special Topics *

Religious Studies

- 4950/1 Directed Study on Special Topics *

Sociology

- 3111 Inequality in Canadian Society
- 3121 Language and Ethnicity in Canada

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 biology and geology. The applications of chemistry in fields such as agriculture, medicine,

CHEM 1501 (3CR)

CHEMISTRY IN MODERN SOCIETY

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.

Prereq: None.

CHEM 2101 (3CR)

ORGANIC CHEMISTRY FOR THE BIOLOGICAL SCIENCES

An introduction to the structure, reactivity and biological relevance of a variety of functional groups is presented. There will also be an introduction to spectroscopy.

Prereq: CHEM 1021; or permission of the Department.

Exclusion: CHEM 2111, 2121, 2131, 2141, 2151

CHEM 2111 (3CR)

ORGANIC CHEMISTRY I

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.

Prereq: CHEM 1021; or permission of the Department.

Exclusion: CHEM 2101, 2131, 2141

CHEM 2121 (3CR)

ORGANIC CHEMISTRY II

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.

Prereq: CHEM 2111; or permission of the Department.

Exclusion: CHEM 2101, 2131, 2151

CHEM 2211 (3CR)

PHYSICAL CHEMISTRY I: THERMODYNAMICS

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CHEM 3321 (3CR)

INORGANIC CHEMISTRY II: MAIN GROUP ELEMENTS

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.

Prereq: CHEM 1021, or permission of the Department.

Exclusion: CHEM 2321

CHEM 3331 (3CR)

INORGANIC CHEMISTRY III: ORGANOMETALLICS

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.

Prereq: CHEM 2311; or permission of the Department.

CHEM 3361 (3CR)

INORGANIC CHEMISTRY IV: ADVANCED MAIN GROUP ELEMENTS

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.

Prereq: CHEM 3321; or permission of the Department.

CHEM 3411 (3CR)

ANALYTICAL CHEMISTRY I

Topics involve the treatment of errors and statistics of measurements, aqueous solutions, complex equilibria (including acid/base and buffer systems), and electrochemistry theory, involving; redox, electrode potentials (ion selective electrodes), and electrogravimetry. Problem solving will be stressed.

Prereq: CHEM 1021, MATH 1121 or 1131; or permission of the Department.

CHEM 3421 (3CR)

ANALYTICAL CHEMISTRY II: INSTRUMENTAL METHODS OF ANALYSIS

The theoretical basis, scope and limitations of various instrumental methods of analysis, especially in the areas of Spectroscopy and Chromatography will be introduced, including GC/MS and HPLC for organic compounds, Atomic Absorption Spectroscopy for metals and UV/VIS for organic and inorganic compounds.

Prereq: PHYS 1551 and CHEM 3411; or permission of the Department.

CHEM 4131 (3CR)

ORGANIC CHEMISTRY: SYNTHETIC CHEMISTRY

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.

Prereq: CHEM 3121; or permission of the Department.

Exclusion: CHEM 4101

CHEM 4141 (3CR)

ORGANIC CHEMISTRY: PHYSICAL ASPECTS

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.

Prereq: CHEM 3111, 3241, 3231; or permission of the Department.

Exclusion: CHEM 4111

CHEM 4151 (3CR)

ORGANIC CHEMISTRY: BIOORGANIC

The principles of organic chemistry as they apply to biochemical problems will be presented. Topics covered include enzymic reaction mechanisms, enzyme cofactors, peptide and nucleic acid synthesis, enzymes in organic synthesis.

Prereq: CHEM 3111; or permission of the Department.

CHEM 4161 (3CR)

ORGANIC CHEMISTRY: THEORETICAL APPROACHES

Zeroth order symmetry - simplified Hückel and molecular orbital calculations will be developed. Calculations are extended to heteroatom - substituted and Möbius structures. An introduction to chemical graph theory will be included.

Prereq: MATH 1121 or 1131, CHEM 3121; or permission of the Department.

Exclusion: CHEM 4121

CHEM 4211 (3CR)

PHYSICAL CHEMISTRY: STATISTICAL THERMODYNAMICS

The theory of statistical thermodynamics will be developed from the statistical distribution of energy using the Maxwell-Boltzmann distribution law. Partition functions and degeneracy 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.

Prereq: CHEM 2211, 3241, MATH 2111; or permission of the Department.

Exclusion: CHEM 4201

CHEM 4241 (3CR)

PHYSICAL CHEMISTRY: COMPUTATIONAL

A basic knowledge of the methods currently used in computational chemistry will be discussed. Approximations involved in the application of quantum mechanics to chemical systems, and how these approximations can be systematically improved, will be addressed. Practical aspects of computational chemistry programs will also be considered.

Prereq:

CHEM 4341 (3CR)
INORGANIC CHEMISTRY: PHYSICAL ASPECTS

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. Programmes

MINOR in Classical Studies is 24 credits earned as follows

- 24 from Classics, Latin, Greek, of which 12 must be at the 3/4000 level, chosen in consultation with the Programme Advisor.
Students may choose a minor programme with an emphasis on Ancient History, Classical Literature or Art and Archaeology.

MINOR in Greek is 24 credits earned as follows

- 18 from Greek at the 1000, 2000, and 3000 levels
- 6 from Latin 1001, 1101, or Greek at the 4000 level, chosen in consultation with the Programme Advisor

MINOR in Latin is 24 credits earned as follows

- 18 from Latin at the 1000, 2000, and 3000 levels
- 6 from Greek 1001 and 1101 or Latin at the 4000 level, chosen in consultation with the Programme Advisor

MAJOR AREA OF STUDY in Classical Studies is 60 credits earned as follows

- 6 from Latin 1001, 1101, or Greek 1001 and 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 Programme Advisor

HONOURS in Classical

CLAS 3201 (3CR)

GREEK TRAGEDY

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.

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

CLAS 3211 (3CR)

GREEK AND ROMAN COMEDY

LATI 1101 (3CR)

INTRODUCTORY LATIN II

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.

Prereq: LATI 1001; or permission of the Department.

Exclusion: LATI 1000

LATI 2001 (3CR)

INTERMEDIATE LATIN

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.

Prereq: LATI 1101; or permission of the Department.

LATI 2101 (3CR)

INTRODUCTORY READINGS IN LATIN LITERATURE

A reading of selected works by Latin authors. This course will acquaint the student with some of the forms of ancient prose and poetry.

Prereq: LATI 2001; or permission of the Department.

LATI 3001 (3CR)

READINGS IN LATIN PROSE

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

Prereq: LATI 2101; or permission of the Department.

LATI 3101 (3CR)

READINGS IN LATIN POETRY

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

Prereq: LATI 2101; or permission of the Department.

LATI 4001 (3CR)

DIRECTED READINGS IN LATIN

Detailed study of one or more Latin authors.

Prereq: Permission of the Department.

LATI 4950/4951 (6/3CR)

SPECIAL PROJECT IN LATIN

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

Prereq: Permission of the Department.

GREEK COURSES

GREK 1001 (3CR)

Introductory Ancient Greek I

An introduction to the grammar and vocabulary of ancient Greek for students with no previous knowledge of the language. Through grammatical exercises, composition, and the reading of prescribed texts, the student will develop a basic understanding of the language of classical Athens. Three class periods per week, plus a fourth hour to be arranged after classes have begun.

Exclusion: GREK 1000

GREK 1101 (3CR)

Introductory Ancient Greek II

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.

Prereq: GREK 1001; or permission of the Department.

Exclusion: GREK 1000

GREK 2001 (3CR)

INTERMEDIATE GREEK

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.

Prereq: GREK 1000 or GREK 1101; or permission of the Department.

COGNITIVE SCIENCE

Interdisciplinary B.Sc. Programme

MAJOR AREA OF STUDY in Cognitive Science is 69
credits earned as follows

COMM 3151 (3CR)**TAXATION**

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.

Prereq: COMM 2131 and ECON 1000, (or 1001 and 1011); or permission of the Department.

Exclusion: COMM 4111

COMM 3161 (3CR)**INTRODUCTION TO AUDITING**

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.

Prereq: COMM 2121; or permission of the Department.

Exclusion: COMM 4151

COMM 3211 (3CR)**CONSUMER BEHAVIOUR**

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.

Prereq: COMM 2211; or permission of the Department.

COMM 3231 (3CR)**MARKETING CHANNELS OF DISTRIBUTION**

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.

Prereq: COMM 2211; or permission of the Department.

COMM 3251 (3CR)**INTERNATIONAL MARKETING**

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.

Prereq: COMM 2211; or permission of the Department.

COMM 3261 (3CR)**INTEGRATED MARKETING COMMUNICATIONS**

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.

Prereq: COMM 2211; or permission of the Department.

Exclusion: COMM 4251

COMM 3321 (3CR)**HUMAN RESOURCE MANAGEMENT**

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.

Prereq: COMM 2301; or permission of the Department.

COMM 3341 (3CR)**ORGANIZATIONAL THEORY**

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.

Prereq: COMM 2311; or permission of the Department.

COMM 3351 (3CR)**SMALL BUSINESS MANAGEMENT**

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.

Prereq: COMM 2131 and 2201 or COMM 1001 and registration in third year; or permission of the Department.

COMM 3361 (3CR)**ENTREPRENEURSHIP AND NEW VENTURE CREATION**

An examination of 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. The course will centre on the students' projects, calling for the development of business ideas and authorship of business plans.

Prereq: COMM 2131 and 2201 or COMM 1001 and registration in third year; or permission of the Department.

Exclusion: COMM 4341

COMM 3371 (3CR)**ISSUES IN BUSINESS AND SOCIETY**

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.

Prereq: COMM 2131 and 2301; or permission of the Department.

Exclusion: COMM 4371

COMM 3411 (3CR)**QUANTITATIVE ANALYSIS FOR BUSINESS DECISIONS**

An introduction to formalized methods of arriving at business decisions. Topics will be selected from constrained optimization models, decision models, game theory, Markovian processes, network models, forecasting, and dynamic programming.

Prereq: MATH 1111, 3 credits in Computer Science 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.

COMM 3421 (3CR)**PRODUCTION AND OPERATIONS MANAGEMENT**

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.

Prereq: COMM 2131 and MATH 2311; or permission of the Department.

COMM 3431 (3CR)**MANAGEMENT INFORMATION SYSTEMS**

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.

Prereq: 3 credits in Computer Science and COMM 2131; or permission of the Department.

Exclusion: COMM 4411

COMM 3441 (3CR)**INTRODUCTION TO ELECTRONIC COMMERCE**

This course is designed to introduce students to concepts and practices in e-commerce. Topics include Internet security and the transference of data information, using the Internet for creating management information systems, organizational issues associated with e-commerce, the World Wide Web as a strategic business tool, marketing products, services and ideas through Internet based media, and supplier/customer communication issues.

Prereq: Third year standing plus twelve credits in Commerce; or permission of the Department.

COMM 3501 (3CR)**INTRODUCTION TO FINANCE**

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.

Prereq: ECON 1000, (or 1001 and 1011), MATH 1111, 3 credits in Computer Science and MATH 2321 (or ECON 2701 or PSYC 2011) and COMM 2101; or permission of the Department.

Note: Counts as an Economics elective for students taking a Major, Minor or Honours in Economics.

COMM 3611 (3CR)**COMMERCIAL LAW**

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.

Prereq: Third or fourth year standing; or permission of the Department.

Exclusion: COMM 4611

COMM 4101 (3CR)**ADVANCED ACCOUNTING I**

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.

Prereq: COMM 3121; or permission of the Department.

Exclusion: COMM 4121

COMM 4131 (3CR)**ADVANCED ACCOUNTING II**

An introduction to business combinations, consolidated financial statements, joint ventures, and accounting for transactions and operations conducted in foreign currencies.

Prereq: COMM 3121; or permission of the Department.

COMM 4201 (3CR)**MARKETING STRATEGY**

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.

Prereq: Fourth year standing in Commerce Program, plus six credits in the 3200/4200 series; or permission of the Department.

COMM 4211 (3CR)**SERVICES**

COMM

COMM 4511 (3CR)**CAPITAL MARKETS AND FINANCIAL INSTITUTIONS**

An examination of the functions of financial intermediaries operating in our capital markets. Topics are selected from financial intermediation theory, capital markets, security and financial market regulations, risk and return in financial markets, and ethical considerations.

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.

COMM 4521 (3CR)**CORPORATE FINANCE**

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.

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.

COMM 4800/4801 (6/3CR)**SPECIAL TOPICS IN BUSINESS**

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.

Prereq: Permission of the Department.

COMM 4950/4951 (6/3CR)**INDEPENDENT STUDY**

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 programme planned by the student and approved by the Department; however, it is possible that some projects may involve several participants working together in groups.

Prereq: Permission of the Department.

COMM 4990 (6CR)**HONOURS THESIS**

This course requires a major paper on a business topic and is carried out in close consultation with a thesis director.

Prereq: Permission of the Department.

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. Programmes

B.A. MAJOR AREA OF STUDY in Computer Science is 60 credits earned as follows

- 18 from COMP 1711, 1721, 2211*, 2611, 2711, 2931
- 9 from COMP 3611, 3911, 4721
- 15 from COMP at the 3/4000 levels
- 6* from MATH 1111, 2221
- 3 from MATH 1121, 1131, 2311
- 9 from complementary courses in Arts and Letters, Humanities and Social Science chosen in consultation with the Programme Advisor.

B.A. or B.Sc. MINOR in Computer Science is 24 credits earned as follows

- 15 from Computer Science 1711, 1721, 2211*, 2611, 2931
- 6 from Computer Science at the 3/4000 levels
- 3 from Mathematics 1111

B.Sc. MAJOR AREA OF STUDY in Computer Science is 63 credits earned as follows

- 18 from COMP 1711, 1721, 2211*, 2611, 2711, 2931
- 9 from COMP 3611, 3911, 4721
- 15 from COMP at the 3/4000 levels
- 6* from MATH 1111, 2221

- 3 from MATH 1121, 1131, 2311
- 12 from Chemistry 1001, 1021, Physics 1051, 1551

B.A. OR B.Sc. HONOURS in Computer Science and Mathematics is 75 or 87 credits earned as follows

- 18 from COMP 1711, 1721, 2211*, 2611, 2711, 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 MATH at the 3/4000 levels
- 15 from COMP 3351, 3411, 3611, 3911, 4721
- 12 from CHEM 1001, 1021; Physics 1051, 1551 (only for B.Sc.)

* COMP 2211 was formerly listed as MATH 2211

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 Programme Coordinator must be obtained.

COMPUTER SCIENCE COURSES

COMP 1611 (3CR)

SURVEY OF COMPUTING AND ITS APPLICATIONS

An introduction to computing providing a broad survey of the discipline. Topics will be chosen from: origins of computers, data representation and storage, computer architecture, assemblers and compilers, operating systems, networks and the internet, theories of computation, artificial intelligence, and trends in internet commerce and use. Laboratory work and assignments will offer experience with the use of application software and programming. The course is designed primarily for students who want a one-semester introduction to the field and have little or no previous computing background. Exclusion: Any COMP 2000 level or higher.

COMP 1711 (3CR)

INTRODUCTION TO COMPUTER SCIENCE I

This course introduces the student to the techniques of algorithm development and structured programming and their implementation using a modern high-level language. The course is intended for students who wish to take further courses in Computer Science. The topics covered are: problem analysis, algorithm design, pseudocode, implementation of structured solutions, applications to both numerical and non-numerical problems. The programming concepts include: data representation, control structures, arrays and sub-programs, testing and debugging programs.

Prereq: Students enrolling in COMP 1711 should normally have completed a university preparatory level course in Mathematics.

COMP 1721 (3CR)

INTRODUCTION TO COMPUTER SCIENCE II

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. Further high-level languages may be introduced.

Prereq: COMP 1711; or permission of the Department.

COMP 1751 (3CR)

INTRODUCTION TO SCIENTIFIC PROGRAMMING

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.

Prereq: MATH 1111; or permission of the Department.

COMP/MATH 2211 (3CR)

DISCRETE STRUCTURES

An introduction to the terminology and concepts of discrete mathematics, covering such topics as: sets, functions, induction, enumeration, graphs and trees, boolean algebras, semigroups and groups, and the design of algorithms.

Prereq: MATH 1111; or permission of the Department.

Note: This course is cross-listed as MATH 2211 and may therefore count as three credits in either discipline.

Exclusion: MATH 2211 Discrete Mathematics

COMP 2611 (3CR)

DATA AND FILE STRUCTURES

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.

Prereq: COMP 1721; or permission of the Department.

COMP 2711 (3CR)

OBJECT-ORIENTED DESIGN AND METHODOLOGY

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.

Prereq: COMP 2611; or permission of the Department.

Exclusion: COMP 2621 (Data and File Structures II), 2811

COMP 2931 (3CR)

INTRODUCTION TO SYSTEMS PROGRAMMING

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.

Prereq: COMP 1721; or permission of the Department.

Exclusion: COMP 2911

COMP 3851 (3CR)**COMPUTERS AND SOCIETY**

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.

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.

COMP 3911 (3CR)**OPERATING SYSTEMS**

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.

Prereq: COMP 2931; or permission of the Department.

COMP 3971 (3CR)**COMPUTER ORGANIZATION AND ARCHITECTURE**

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.

Prereq: COMP 2931, 3351; or permission of the Department.

COMP/MATH 4631 (3CR)**THEORY OF COMPUTATION**

This course is an introduction to theoretical aspects of Computer Science such as formal language and automata theory and complexity theory.

Prereq: COMP 1721, 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.

COMP/MATH 4651 (3CR)**CRYPTOGRAPHY**

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.

Prereq: COMP 1711, 1721, COMP/MATH 2211; or permission of the Department.

COMP 4721 (3CR)**SOFTWARE DESIGN**

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.

Prereq: COMP 2611, 2711, 2931, 6 credits in Computer Science at the 3000/4000 level, and third or fourth year standing; or permission of the Department.

COMP 4911 (3CR)**COMPUTER NETWORKS**

An introduction to computer network applications and design. Topics will include: layered models, data transmission protocols, network topology, and security.

Prereq: COMP 2611, 2931, and 3 credits from Computer Science at the 3/4000 levels; or permission of the Department.

COMP 4951 (3CR)**SPECIAL TOPICS IN COMPUTER SCIENCE**

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 programme planned by the student and approved by the Department.

DRAMA

Students at Mount Allison with an interest in drama have several options open to them. In all cases, the programmes are designed to provide an education in drama rather than professional training for the theatre.

Interdisciplinary B.A. Programmes

INTERDISCIPLINARY MINOR in Drama is 24 credits earned as follows

- 12 from Drama/English 2021; Drama 3001, 3051, 3061
- 12 from Classics 3201, 3211; Drama 4011, 4021; English 2211, 3211, 3311, 3431, 3551, 3561, 3611, 3621; French 3271, 3371, 3471, 3671, 3771; Spanish 3001, 3011

INTERDISCIPLINARY MAJOR in Drama is 60 credits earned as follows

Drama Core

- 18 from Drama/English 2021; Drama 3001, 3051, 3061, 4011, 4021

Dramatic Literature

- 24 to 30 from Classics 3201, 3211; English 2211, 3211, 3311, 3431, 3551, 3561, 3611 or 3621; French 3271, 3371, 3471, 3671, 3771; Spanish 3001, 3011, 3321 and from the following when their topic is dramatic literature: English 4000 series; French 4811; German 3231, 3301, 3311, 4030, 4950/4951 and Spanish 4950/51
- 12 to 18 from Complementary courses to be chosen in consultation with the Drama Programme Advisor. The following are particularly recommended: Anthropology 3231; Canadian Studies 2011, 3311; 3 English credits at the 1000 level, English 3621, 3871, 3850, 3881; Fine Arts 1901, 1911, 1921, 1931, 2001, 2011; French 2201, 2601, 3151, 3161, 3801; German 2701; Music 1001, 1011, 1101, 1111, 2000, 2679-4679, 3303; Sociology 3451; Women's Studies 3001

Note: Students may allow up to 6 credits in English for: Drama 3051 "Acting and Directing", Drama 3061 "Principles of Methods of Interpretation", and Drama 3001 "Dramatic Theory".

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 Programme Coordinator must be obtained.

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.

DRAM/ENGL 2021 (3CR)

INTRODUCTION TO DRAMA

This course introduces students to conventions, forms, and devices of drama as they emerge under, and respond to, specific theatrical and cultural conditions.

Prereq: ENGL 1001 or 1201 or enrolment in the Interdisciplinary Major or Minor in Drama; or permission of the Department.

Note: This course is cross-listed as ENGL 2021 and may be taken as three credits in either discipline.

Exclusion: DRAM/ENGL 2200

DRAM 3001 (3CR)

DRAMATIC THEORY

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.

Prereq: DRAM/ENGL 2021; or permission of the instructor.

Exclusion: DRAM 3000

DRAM 3051 (3CR)

ACTING AND DIRECTING

This course exposes students to theory and practice of acting and directing, exploring the spatial and temporal means by which actors and directors interpret a script on the stage. The class will study the themes, structure, rhythms, subtext, and visual dimensions of three or four dramatic texts, culminating in the production of one of them. The course is offered once every second year, in an alternating rotation with 3061.

Prereq: DRAM/ENGL 2021; or permission of the instructor.

Exclusion: DRAM 3050

DRAM 3061 (3CR)

PRINCIPLES AND METHODS OF PRODUCTION

This course introduces students to the means by which dramatic texts are given life in time and space on the stage. Principles and methods of set design and construction, costuming, lighting and sound design, and stage and theatre management are all explored, with special attention to three or four dramatic texts, one of which will receive production. The course is offered once every second year, in an alternating rotation with Drama 3051.

Prereq: DRAM/ENGL 2021; or permission of the instructor.

Exclusion: DRAM 3050

DRAM 4011 (3CR)

SPECIAL TOPICS IN THEATRICAL INTERPRETATION I

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. Prereq or co-req: DRAM 3051, or 3061, or FREN 3151 and 3161, and permission of the Director of Drama.

DRAM 4021 (3CR)

SPECIAL TOPICS IN THEATRICAL INTERPRETATION II

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. Prereq or co-req: DRAM 4011 and permission of the Director of Drama.

ECONOMICS

To survive, a man must eat - the first rule of continued existence. 'On a decent diet, man can produce just about one horsepower hour of work daily, and with that he must replenish his exhausted body. With what is left over, he is free to build a civilization.' (R.L. Heilbroner, *The Economic Problem*, p. 8). An economic system is what society relies upon to provide for the material well-being of its members.

Every society must in some way determine what material goods and services its members will produce, (the question of production) and to what extent each person can claim a portion of this flow of output (the question of distribution). There are no divinely correct answers to these unavoidable questions. Each society seeks its own social arrangements. 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 man's 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. Courses in economics are not designed for social chitchat about current economic problems. The courses do provide a foundation for a better understanding of such problems. 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. Programmes

MINOR in Economics is 24 credits earned as follows

- 6 from Economics 1000, (or 1001 and 1011)
- 18 from Economics, including 6 from the 3/4000 level, chosen in consultation with the Programme Advisor

MAJOR AREA OF STUDY in Economics is 60 credits earned as follows

- 24 from Economics 1001 and 1011 (or 1000), 2001, 2011, 2101, 2111, 2701, 3501
- 6 from Mathematics 1111, 2311
- 6 from Commerce 2101, Computer Science 1711 or 1611, Math 1121 (or 1131), Math 2221
- 15 from Economics at the 3/4000 level
- 9 from complementary courses, chosen in consultation with the Programme Advisor.

Note:

1. Commerce 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. Economics 3201, 3211, 3601, 3611, 3621, 3711, 3921, 4501, 4511, 4700, 4801, 4811, 4821, 4990 Computer Science 3851, and Religious Studies 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 PROGRAMME

Honours in Economics may be completed in both Arts and Commerce Degree Programmes. 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 (MATH 2221) and Statistics (MATH 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 programme 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 Economics 4001, 4011, 4700, 4801, 4811, 4821, 4990
- 9 from Economics at the 3/4000 level or Mathematics and Computer Science (except Mathematics 1001 and 2321; and Computer Science 1611 and 1711) chosen in consultation with the Economics Programme 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 Programme Coordinator must be obtained.

ECONOMICS COURSES

ECON 1000 (6CR)

PRINCIPLES OF ECONOMICS

This course introduces economic theory and its application in the analysis of economic policy. A wide range of topics is covered including the role of market prices in resource allocation decisions, business cycles (unemployment and inflation), the economic behaviour of firms, sustainable development and the environment, international economic relations, and government debts and deficits. This course is normally the prerequisite for all other courses in Economics.

Prereq: Students should normally have completed a university preparatory level course in Mathematics.

Exclusion:

ECON 1001 (3CR)

PRINCIPLES OF MICROECONOMICS

A general introduction to the study of Economics and the nature of economic problems. Of primary concern is the behaviour of consumers and firms in different markets, and the results of their actions as manifested in production, costs, and prices. Market efficiency and market failure are also examined.

Prereq: Students should normally have completed a university preparatory level course in Mathematics.

Exclusion: ECON 1000

ECON 1011 (3CR)

PRINCIPLES OF MACROECONOMICS

A general introduction to the study of Economics and the nature of economic problems. Of primary concern is the determinants of the level of national income, employment, and the accompanying stabilization problems and policies. Topics also include money and banking, international trade, exchange rates, and the problems of inflation.

Exclusion: ECON 1000

ECON 2001 (3CR)

INTERMEDIATE MICROECONOMICS I

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.

Prereq: ECON 1000; or ECON 1001; or permission of the Department.

ECON 2011 (3CR)

INTERMEDIATE MICROECONOMICS II

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.

Prereq: ECON 2001; or permission of the Department.

ECON 2101 (3CR)

INTERMEDIATE MACROECONOMICS 1

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.

Prereq: ECON 1000; or ECON 1011; or permission of the Department.

ECON 2111 (3CR)

INTERMEDIATE MACROECONOMICS II

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 3101 (3CR)**LAW AND ECONOMICS**

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.

Prereq: ECON 1001 and 1011,(or ECON 1000); or permission of the Department.

ECON 3111 (3CR)**HEALTH ECONOMICS**

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.

Prereq: ECON 1001 and 1011,(or ECON 1000); or permission of the Department.

ECON 3201 (3CR)**MONEY, BANKING, AND THE CANADIAN FINANCIAL SYSTEM: MICROECONOMIC PERSPECTIVES**

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.

Prereq: ECON 1000, (or 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.

ECON 3211 (3CR)**MONEY, BANKING, AND THE CANADIAN FINANCIAL SYSTEM: MACROECONOMIC PERSPECTIVES**

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.

Prereq: ECON 1000, (or 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.

ECON 3501 (3CR)**ECONOMIC GROWTH AND TECHNOLOGICAL CHANGE**

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.

Prereq: ECON 1001 and 1011 (or ECON 1000), or permission of the Department

ECON 3531 (3CR)**ECONOMIC GROWTH AND DEVELOPMENT: JAPAN AND EAST ASIA**

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.

Prereq: ECON 3501; or permission of the Department.

ECON 3551 (3CR)**INTERNATIONAL DEVELOPMENT**

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.

Prereq: ECON 3501; or permission of the Department.

ECON 3601 (3CR)**PRINCIPLES OF COST-BENEFIT ANALYSIS**

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.

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.

ECON 3611 (3CR)**INDUSTRIAL ORGANIZATION: THEORY**

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.

Prereq: ECON 2001 and ECON 2011; or permission of the Department.

Exclusion: ECON 3611 (Industrial Organization and Policy in Canada)

ECON 3621 (3CR)**INDUSTRIAL ORGANIZATION: POLICY**

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.

Prereq: ECON 2001 and ECON 2011; or permission of the Department.

ECON 4801 (3CR)**ADVANCED ECONOMIC THEORY I**

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.

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.

ECON 4811 (3CR)**ADVANCED ECONOMIC THEORY II**

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.

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.

ECON 4821 (3CR)**UNCERTAINTY AND STRATEGY IN ECONOMICS**

The course examines the roles played by uncertainty and asymmetric information in the allocation of resources. The course also introduces the tools of the game theory, and demonstrates their use in analyzing strategic behaviour in economics. Honours students who wish to pursue graduate studies in economics are strongly advised to take this course.

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.

ECON 4950/4951 (6/3CR)**DIRECTED READINGS ON SPECIAL TOPICS**

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.

Prereq: Written permission of the Department.

ECON 4980/4981 (6/3CR)**SPECIAL TOPICS IN ECONOMICS**

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.

Prereq: Permission of the Department.

ECON 4990 (6CR)**HONOURS THESIS**

A student fulfilling requirements for an Honours degree may elect to undertake a research and writing project of acceptable scope and quality under the supervision of faculty members in Economics. The student must submit a formal proposal to the Department prior to registration.

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.

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 PROGRAMME

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 an introduction to literary periods course, genre courses, Shakespeare courses, and a Canadian literature course. 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. Programmes

MINOR in English is 24 credits earned as follows:

- 3 from English 1201
- up to 12 from English at the 2000 level
- 9 to 15 from English at the 3/4000 level, chosen in consultation with the Programme Advisor

MAJOR AREA OF STUDY in English is 60 credits earned as follows:

- 3 from English 1201
- 6 to 12 from English at the 2000 level including 2201 and 2301.
- from English at the 3/4000 level (3 credits each chosen from at least five of the eleven subject areas listed below: at least 9 credits must be chosen from the 4 subject areas prior to

3. Students may allow up to 6 credits in English for: Drama 3051 "Acting and Directing," Drama 3061 "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

ENGL 2801 (3CR)**INTRODUCTION TO CANADIAN LITERATURE**

This course presents an introductory overview of Canadian literature from its beginnings to the present.

Prereq: ENGL 1001 or 1201; or permission of the Department.

Exclusion: ENGL 2800

3000 SERIES**ENGL 3011 (3CR)****SURVEY OF 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.

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).

ENGL 3021 (3CR)**MIDDLE-ENGLISH 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.

Prereq: ENGL 3011 or permission of the Department.

Exclusion: ENGL 3021 (Later Medieval Literature)

ENGL 3211 (3CR)**ADVANCED STUDIES IN SHAKESPEARE**

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.

Prereq: ENGL 2211 or ENGL 3311 and three more English credits at the 2000 level or permission of the Department.

Exclusion: ENGL 3300

ENGL 3231 (3CR)**SIXTEENTH CENTURY LITERATURE**

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

ENGL 3241 (3CR)**MAJOR TEXTS IN EARLY ENGLISH LITERATURE**

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.

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.

ENGL 3311 (3CR)**ENGLISH DRAMA TO 1642**

A study of English dramatic literature and production, excluding Shakespeare, from the Middle Ages to the closing of the theatres in 1642.

Prereq: Either ENGL/DRAM 2021 and 3 more English credits at the 2000 level or permission of the Department, or English/Drama 2021 and third year standing in the Interdisciplinary Drama Programme.

Exclusion: ENGL 3100, 3111, 3121

ENGL 3351 (3CR)**LITERATURE OF THE EARLY SEVENTEENTH CENTURY**

A study of the poetry and prose of the early seventeenth century, focusing on the work of authors such as Donne, Jonson and Herbert.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3350

ENGL 3361 (3CR)**LITERATURE AND THE ENGLISH REVOLUTION**

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3350

ENGL 3411 (3CR)**RESTORATION AND AUGUSTAN LITERATURE**

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3400

ENGL 3421 (3CR)

LITERATURE IN THE AGE OF ENLIGHTENMENT

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3400

ENGL 3431 (3CR)

RESTORATION AND EIGHTEENTH CENTURY DRAMA

This course 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.

Prereq: Either ENGL/DRAM 2021 and 3 more English credits at the 2000 level or permission of the Department, or English/Drama 2021 and third year standing in the Interdisciplinary Drama Programme.

Exclusion: ENGL 3430

ENGL 3451 (3CR)

LITERATURE IN THE AGE OF ROMANTICISM

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3451 (Literature in the Age of Revolution)

ENGL 3461 (3CR)

LITERATURE OF THE REGENCY

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3450

ENGL 3481 (3CR)

EARLY VICTORIAN LITERATURE

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.

Prereq: P credits of English at the 2000 level; or permission of the

Exclusion: EENGL 3450

ENGL 3811 (3CR)**CANADIAN MODERNISM**

This course will examine the developments in Modernism found in Canadian literature from 1910 to 1950.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3820

ENGL 3821 (3CR)**THE CANADIAN POSTMODERN**

This course will examine the proliferating innovations in the forms and themes of Canadian literature since 1950.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

Exclusion: ENGL 3820

ENGL 3831 (3CR)**ASPECTS OF CANADIAN LITERATURE**

A study of a selected aspect of Canadian literature.

Prereq: 6 credits of ENGL at the 2000 level; or permission of the Department.

Exclusion: ENGL 3810

ENGL 3850 (6CR)**CREATIVE WRITING**

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.

Prereq: Third and fourth year standing and permission of the department based on acceptance of a writing portfolio.

Exclusion: ENGL 3851, 3861

ENGL 3871 (3CR)**CONTEMPORARY LITERARY THEORY I**

This course offers an introduction to various contemporary theories of literature; diverse approaches, such as structuralist, semiotic, post-structuralist and "deconstructive" will be examined.

Prereq: 6 credits of English at the 2000 level and minimum third-year standing or permission of the Department.

Exclusion: ENGL 3880

ENGL 3881 (3CR)**CONTEMPORARY LITERARY THEORY II**

This course will draw upon the literary theories introduced in English 3871 while introducing further theoretical approaches such as psychoanalytic, feminist, and Marxist theories.

Prereq: ENGL 3871 or permission of the Department.

Exclusion: ENGL 3880

ENGL 3911 (3CR)**STUDIES IN LITERARY GENRE**

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

ENGL 3921 (3CR)**CULTURAL STUDIES**

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

ENGL 3931 (3CR)**ASPECTS OF POSTMODERNISM**

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.

Prereq: 6 credits of English at the 2000 level; or permission of the Department.

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****ENGL 4231 (3CR)****SELECTED TOPICS IN POST-1800 LITERATURE****ENGL 4701 (3CR)****SELECTED TOPICS IN AMERICAN LITERATURE****ENGL 4801 (3CR)****SELECTED TOPICS IN CANADIAN LITERATURE****ENGL 4901 (3CR)****SPECIAL TOPICS**

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

ENGL 4931 (3CR)

ENVIRONMENTAL SCIENCE COURSES

ENVS 4901 (3CR)

ENVIRONMENTAL ISSUES

This course will examine current issues in environmental science. Students will be required to prepare case studies of specific problem areas in environmental science and present these in a seminar format.

Prereq: This course is restricted to Majors in their final year of Environmental Science.

ENVIRONMENTAL STUDIES

Interdisciplinary B.A. Programme

MINOR in Environmental Studies is 24 credits earned as follows

- 3 from Environmental Studies 1001
- 9 from Economics 1000 (or 1001 and 1011), 3801
- 3 from Biology 1211, Geoscience 1001, 1011, 2031, 2101
- 9 from Economics 3821, Environmental Studies 4000, 4951, Geography 2101, 3101, 3201, 3531, 4101, Philosophy 1651, 3721, Anthropology 2501, Anthropology 3541 or 4531, 4521, Sociology 3611

Note: At least 6 of the 9 credits must be from courses at the 3/4000 level.

MAJOR in Environmental Studies is 72 credits earned as follows

- 21 from Biology 1001, Chemistry 1001 or Physics 1051 or Physics 2401, Economics 1000 (or 1001 and 1011), Environmental Studies 1001, Geoscience 1011, Sociology 1001 or Anthropology 1011
- 24 from Economics 3801, Geography 2101, 2221, 3101, Geography 3201 or Political Science 2101, Geography 4101, Geoscience 2031, Philosophy 1651 or 2701 or 3511, Philosophy 3721, Sociology 1001 or Anthropology 1011, 2501 Note: At least 12 of the 24 credits must be from courses at the 3/4000 level.
- 3 from Geography 2711 or Mathematics 2311
- 6 from Environmental Studies 4000
- 6 from Biology 1211, 1501, 2101, 3501*, 3911, Chemistry 1501, 2511* Geoscience 1001, 2101, 2401, 3111, Physics 3751*
- 12 from Commerce 1001, 3371*, Economics 2001, 3601, 3821, Environmental Studies 4951, Geography 1201, 3531, 3711, 4521, History 1621, Philosophy 1651, 3511, Anthropology 2521, 3031, 3621, 4521, Anthropology 3541 or 4531, Sociology 2601, 3601, 3611 Note: At least 6 of the 12 credits must be from courses at the 3/4000 level.

Note: * indicates courses which have prerequisites that are not listed in the requirements for the Environmental Studies Major.

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 Programme Coordinator must be obtained.

ENVIRONMENTAL STUDIES COURSES

ENST 1001 (3CR)

INTRODUCTION TO ENVIRONMENTAL STUDIES

This course will review a range of topics and academic disciplines that contribute to our understanding of environmental issues and contribute to the resolution of environmental problems. Topics ranging from environmental history & ethics to the role of science and economics will be examined.

ENST 4000 (6CR)**ISSUES IN ENVIRONMENTAL STUDIES**

This is a senior, seminar-project course exploring issues in Environmental Studies. Individually or collectively students are encouraged to explore a topic of their own choice, approved by a faculty member in the Environmental Studies program, and to present their findings both in seminars and in written assignments.

Prereq: Fourth year standing in the Environmental Studies programme; or permission of the supervising instructor and the Environmental Studies Coordinator.

ENST 4951 (3CR)**SPECIAL TOPICS IN ENVIRONMENTAL STUDIES**

A course to permit an advanced student to pursue a special topic of environmental study under the supervision of an appropriate instructor.

Prereq: Permission of the supervising instructor and the Environmental Studies Coordinator.

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. PROGRAMME

A description of the programme 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 programmes 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. programmes are outlined as follows:

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 AREA OF STUDY 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 Programme Coordinator 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 apt; i.rt\$iled will have ao be passed by the end of the next academic year in which the student is enrolled.

Studio Courses Open ao Non-Fine Arts Students

Six credits chosen from FA 1101, 1111, 1901, 1911, and FA 1921, 1931 are open ao students from other degree programmes, dependent on av\$ilable space, and by written permission of the Department only.

Preference will be given ao students with a major in Art History or Drama.

Students who have no background or previous training in visual art should be advised apt; these courses are required for the Bachelor of Fine Arts degree programme and apt; standards are set accordingly.

Upper level studio courses will be open ao students from other programmes on a space av\$ilable basis, provided apt; the student has me; the prerequisite requirement, or been granted ape permission of the department.

FINA 1101 (3CR)

FUNDAMENTALS OF DRAWING I

This course will introduce the student ao drawing as arcommon language of expression in the visual arts. A variety of drawing media will be used.

FINA 1111 (3CR)

FUNDAMENTALS OF DRAWING II

This course is arcontinuation of Fine Arts 1101. I; i.rrequired of all students enrolled in the BFA programme.

Prereq: FINA 1101; or permission of the Department.

FINA 2501 (3CR)**PHOTOGRAPHY I**

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.

Prereq: FINA 1921; or permission of the Department.

FINA 2511 (3CR)**PHOTOGRAPHY II**

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.

Prereq: FINA 2501; or permission of the Department.

FINA 3101 (3CR)**INTERMEDIATE DRAWING I**

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. programme.

Prereq: FINA 2101 and 2111; or permission of the Department.

FINA 3111 (3CR)**INTERMEDIATE DRAWING II**

This course emphasizes individual direction and style in drawing, using a variety of traditional and non-traditional media.

Prereq: FINA 3101; or permission of the Department.

FINA 3201 (3CR)**INTERMEDIATE PRINTMAKING I**

Prereq: FINA 2201 and 2211; or permission of the Department.

FINA 3211 (3CR)**INTERMEDIATE PRINTMAKING II**

Fine Arts 3201 and 3211 survey traditional and non-traditional printmaking for students with a background in printmaking.

Prereq: FINA 3201; or permission of the Department.

FINA 3301 (3CR)**INTERMEDIATE PAINTING I**

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.

Prereq: FINA 2301 and 2311; or permission of the Department.

FINA 3311 (3CR)**INTERMEDIATE PAINTING II**

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.

Prereq: FINA 3301; or permission of the Department.

FINA 3401 (3CR)**INTERMEDIATE SCULPTURE I**

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.

Prereq: FINA 2401 and 2411; or permission of the Department.

FINA 3411 (3CR)**INTERMEDIATE SCULPTURE II**

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 programme.

Prereq: FINA 3401; or permission of the Department.

FINA 3501 (3CR)**INTERMEDIATE PHOTOGRAPHY I - THE VIEW CAMERA**

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.

Prereq: FINA 2501 and 2511; or permission of the Department.

FINA 3511 (3CR)**INTERMEDIATE PHOTOGRAPHY II - COLOUR AND PHOTO FABRICATION**

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.

Prereq: FINA 3501; or permission of the Department.

FINA 3601 (3CR)**INTERMEDIATE OPEN MEDIA I**

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.

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 3611 (3CR)**INTERMEDIATE OPEN MEDIA II**

Prereq: Completion of at least 4 of the following courses: FINA 2101, 2111, 2201, 2301, 2311, 2401, 2411, 2501, 2511; or permission of the Department.

FINA 3701 (3CR)

THIRD YEAR SEMINAR IN FINE ARTS

A seminar course on contemporary art issues in Fine Arts, usually taught in the second term of each year. Students will lead seminar discussions on selected topics and produce research papers. The course is required of all third year B.F.A. students.

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

FINA 3071 (3CR)

CONTEMPORARY ART SINCE 1970

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.

Prereq: FINA 2001 and 2011; or permission of the Department.

FINA 4041 (3CR)

PRINCIPLES OF ART CRITICISM I

A survey of art criticism from ancient times to 1945, with emphasis on the writings of critics, artists and philosophers.

Prereq: FINA 2001 and 2011 plus two further semester courses in Art History at the 3/4000 level; or permission of the Department.

FINA 4051 (3CR)

PRINCIPLES OF ART CRITICISM II

A survey of art criticism from 1945 to the present, with emphasis on the writings of critics, artists and philosophers.

Prereq: FINA 2001 and 2011 plus two further semester courses in Art History at the 3/4000 level; or permission of the Department.

FINA 4091 (3CR)

ADVANCED SEMINAR IN ART HISTORY

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.

Prereq: FINA 2001 and 2011 plus two further semester courses in Art History at the 3/4000 level; or permission of the Department.

FINA 4950/4951 (6/3CR)

SPECIAL TOPICS IN ART

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.

Note: The following courses within the Classics Department also continue to count as Art History offerings:

CLAS 3601 (3CR)

THE BIRTH OF GREEK ART

CLAS 3611 (3CR)

THE SPLENDOURS OF CLASSICAL AND HELLENISTIC GREEK ART

~~CLAS~~ 3701 (3CR)

ETRUSCAN AND EARLY 1

- 15 credits from complementary courses in Social Science, History, Environmental Studies, Environmental Sciences, International Relations, Women's Studies, Canadian Studies, Biology and Geoscience, chosen in consultation with the Programme Advisor

HONOURS in Geography is 72 credits earned as follows

- 60 credits as in the Major, plus:
 6 from Geography 4990
 6 from Geography at the 3/4000 level, including 3 from the 4000 level, chosen in consultation with the Programme 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 Programme Coordinator must be obtained.

GEOGRAPHY COURSES

GEOG 1201 (3CR) INTRODUCTION TO HUMAN GEOGRAPHY

This lecture and laboratory course is an introduction to the general principles of analysis in human geography at a variety of spatial scales. City, regional and global environments are considered.
 Prereq: None.

GEOG 2101 (3CR) NATURAL RESOURCES MANAGEMENT

This course introduces key concepts and issues in natural resources management. Resource sectors of importance to the Canadian economy will be examined, including forestry, fisheries, wildlife, energy, mining, water, and agriculture. Particular emphasis will be placed on understanding the varied influences that environmental, socio-economic, and political factors have on patterns of resource utilization and resource management decision-making.
 Prereq: None.

GEOG 2201 (3CR) GEOGRAPHY OF ECONOMIC ACTIVITY

This course examines the changing spatial organization of the world industrial map since 1945 by comparing British and North American de-industrialization with the rapid growth of some sectors of newly industrialized countries. The effects of new production technology, changes in industrial organization and transnational corporations and new regional trading blocs on those changing patterns are discussed.
 Prereq: None.

GEOG 2221 (3CR) THE DEVELOPING WORLD

This course surveys the changing geography of the developing world. It examines the decline in traditional land systems and resource use, surveys current economic development strategies, and reviews the role of international aid and non-governmental organizations in these strategies.
 Prereq: None.

GEOG 2311 (3CR) INTRODUCTION TO CULTURAL GEOGRAPHY

This survey of the main themes and approaches of cultural geographers evaluates concepts such as cultural area, ecology and landscape in the context of North American and European settlement patterns.
 Prereq: None.

GEOG 2711 (3CR) DATA ANALYSIS FOR GEOGRAPHERS

This is one of three techniques courses for Geography students. It develops basic skills in data collection, analysis, and presentation. Through lecture and laboratory components, basic statistical and hypothesis testing procedures will be introduced, along with relevant software.
 Prereq: None.

GEOG 3101 (3CR) ENVIRONMENT AND DEVELOPMENT

This course will examine and synthesize current thinking on environment and development. Topics may include: rural land use change, forest management, community-based conservation, sustainable development, trade and environment, and the role of multi-lateral development banks and international environmental agreements.
 Prereq: GEOG 2101 and 2221; or permission of the Department.

GEOG 3201 (3CR) GEOGRAPHY AND PUBLIC POLICY

By centering on policy formulation at all government levels, this course investigates the geo-political structures influencing Canadian society. The relevance of geographers' skills to policy environments is highlighted by considering such topics as the role of experts and consultants in the public policy process.
 Prereq: Third year standing and at least 6 credits in Social Science; or permission of the Department.

GEOG 3211 (3CR) GEOGRAPHY OF TRANSPORT AND COMMUNICATION

This course investigates the impact of changing transport and communication technologies on spatial organization. It surveys overseas shipping and colonial enterprise, the development of road systems, the rise of mass transportation, the evolution of the "global village", time-space convergence and electronic information exchange in the later 20th century, and the role of power structures in control of transport and communications technology.
 Prereq: GEOG 1201 or HIST 1621; GEOG 2201; or permission of the Department.

GEOG 3301 (3CR) HISTORICAL GEOGRAPHY OF NORTH AMERICA

This course surveys the role of pre-twentieth century historical processes in shaping past and present North American landscapes. Significant writings in the evolution of historical geography are identified and analyzed.
 Prereq: Third year standing and either GEOG 1201 or 3 credits from the HIST 1600 series; GEOG 2311; or permission of the Department.

GEOG 3321 (3CR)
GEOGRAPHY OF JAPAN

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.

Prereq: Third year standing, and at least one of GEOG 1201, 2311, HIST 1611, 1621; or permission of the Department.

GEOG 3511 (3CR)
RURAL AND SMALL TOWN CANADA

This course will examine land use patterns as well as the environmental, social, economic and political structures of Canadian rural areas and small towns. An integrated approach to resolving rural and small town development issues is used.

Prereq: GEOG 1201; one of GEOG 2101, 2201, 2311; or permission of the Department .

GEOG 3531 (3CR)
THE PLANNING PROCESS

An examination of 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.

Prereq: GEOG 1201 and one of GEOG 2101, 2201, 2311; or permission of the Department.

GEOG 3701 (3CR)
FIELD METHODS IN GEOGRAPHY

This is one of three 'techniques' courses for Geography students. After a critical examination of modern research techniques, students design, complete, and evaluate a field project. The course requires an off-campus field trip. Students will be liable for some field trip costs.

Prereq: Third year standing and GEOG 2711; or permission of the Department.

Coreq: GEOG 3711.

GEOG 3711 (3CR)
CARTOGRAPHY AND GEOGRAPHIC INFORMATION SYSTEMS

This is one of three 'techniques' courses for Geography students. Through lectures and laboratories it surveys several aspects of traditional cartography, examines one or more evolving Geographic Information Systems, and explores the role of maps in conveying geographic information.

Prereq: Third year standing and GEOG 2711; or permission of the Department.

GEOG 3811 (3CR)
GEOGRAPHY OF URBANIZATION

An investigation of the evolution of the modern city through historic phases of mercantile, industrial, corporate, and post-industrial growth. Urbanization processes are highlighted 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.

Prereq: Third year standing plus GEOG 1201 and 2311; or permission of the Department.

GEOG 4101 (3CR)
SEMINAR IN ENVIRONMENTAL ISSUES

This course examines the current state of scientific knowledge related to various contemporary environmental issues and the public policy implications of these issues.

Prereq: Geoscience 2031 and GEOG 2101; or permission of the Department.

GEOG 4301 (3CR)
SEMINAR IN AREA STUDIES

A study of a selected world region through a combination of directed reading, seminar presentation, and individual research.

Prereq: Any two of GEOG 2201, 2311, 3201, 3211 or 3301; or permission of the Department.

GEOG 4311 (3CR)
CANADIAN REGIONALISM

A seminar in Canadian regionalism that includes a combination of directed reading, presentations, and individual research.

Prereq: GEOG 3201 or 3301; or permission of the Department.

GEOG 4321 (3CR)
SEMINAR IN CULTURAL AND LANDSCAPE STUDY

A seminar that explores contemporary cultural geography and cultural landscape study through directed readings, presentations and individual research.

Prereq: GEOG 2311 and 3301 or 3811; or permission of the Department.

GEOG 4521 (3CR)
COMMUNITY PLANNING RESEARCH SEMINAR

GEOS 2031 (3CR)

GLOBAL ENVIRONMENTAL CHANGE

(Perspectives on Environmental Geoscience) An introductory level course dealing with the interactions of the environment and the Earth - particularly those aspects of the environment influenced by civilization and vice versa. The course gives an overview of major natural processes and geologic hazards which influence civilization, with detailed consideration of natural flooding, landslides, coastal processes and erosion, earthquakes and volcanoes as well as hydro Geoscience and groundwater. It also deals with the effect of civilization on the physical environment - particularly on surficial deposits and near surface crystal rocks or bedrock e.g. the contamination of groundwater and surface waters by waste disposal (including nuclear waste); Acid Rain, Radon gas and the "Greenhouse Effect." Three lectures and one 3-hour laboratory period per week.

Prereq: Any 1000 level Geoscience course; or permission of the Department.

GEOS 2101 (3CR)

COASTAL OCEANOGRAPHY

A 2000 level three unit course complementary to Geoscience 1001 (Introductory Oceanography) in which the focus is the offshore and deep sea oceanography. The course emphasizes North American Atlantic coastal and near shore environments and the interactions among chemical, geological, physical and biological phenomena. Included are methods of study, estuarine systems, sediment regimes, waves, beaches, tides, marshes, deltas, rocky shores, mudflats, barrier islands, reefs and coastal classifications. Special attention is given to sea level changes, erosion and pollution problems.

Prereq: GEOS 1001; or permission of the Department.

GEOS 2401 (3CR)

GEOMORPHOLOGY

Geomorphology is the science that explores the general configuration of the Earth's surface. It deals with the description, classification, nature, origin, and development of present landforms and their relationships to underlying geological structures and the history of geologic events recorded by these surface features. A thorough appreciation of Geomorphology is essential to anyone engaged in Environmental Geoscience. The introductory part of the course deals with the large-scale relief features of the earth (e.g., mountains) and how they are shaped by the processes of weathering, erosion, and sedimentary deposition. The latter part of the course introduces the types of landforms/landscapes that exist in glacial, fluvial, coastal, and desert environments and explores the geomorphic agents (e.g., running water) which control the formation and evolution of these landforms/landscapes.

Prereq: Any 1000 level Geoscience course; or permission of the Department.

GEOS 2501 (3CR)

HYDROGEOLOGY

This course introduces the student to the science that deals with subsurface waters (groundwater) and with related geological aspects of surface water hydrology. The course will deal with hydrogeologic principles as well as concepts and processes that control the occurrence, movement, storage and chemical character of groundwater. It will also describe the basic relation of hydrogeology to other sub-disciplines of Geoscience such as geomorphology, stratigraphy and structure and will deal briefly with problems of groundwater pollution resulting from waste disposal and salt-water intrusion and contamination in coastal areas.

Prereq: GEOS 1011 and 2401; or permission of the Department.

GEOS 3111 (3CR)

COASTAL GEOMORPHOLOGY

This lecture, laboratory, and field course introduces coastal geomorphology by emphasizing current theories of coastal processes set in the context of natural systems.

Prereq: GEOS 2401; or permission of the Department.

GEOS 4950 (6CR)

SPECIAL TOPICS IN GEOSCIENCE

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 programme will be planned individually using lectures, reading, tutorials, laboratory work, etc.

Prereq: Permission of the Department. Each student must obtain, prior to registration, consent of a staff member who is willing to supervise his/her work.

GEOS 4951 (3CR)

SPECIAL TOPICS IN

HONOURS in History is 66 credits earned as follows:

- 42 credits from the first three lines of the major, plus:
- 6 from History 4990
- 18 from History at the 4000 level, chosen in consultation with the Programme 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 Programme Coordinator must be obtained.

HISTORY COURSES

HIST 1601 (3CR)

NEW NATIONS IN NORTH AMERICA

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

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/CLAS 1631 (3CR)

GREECE AND ROME: THE FOUNDATIONS OF WESTERN CIVILIZATION

The political and social history of ancient Greece and Rome will be surveyed with a focus on the themes of Environment, Politics, War, Art and Architecture, and Society. Special attention will be paid to Athens in the fifth and fourth centuries B.C.E. and to Rome under Caesar Augustus.

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

HIST 1651 (3CR)

NATIVE AMERICAN VOICES

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 2000 (6CR)

EARLY WESTERN CIVILIZATION, circa 300 to circa 1650

This course surveys the history of western civilization from late antiquity through the Middle Ages, the Renaissance and the Reformation. By investigating the diverse ways the peoples of western Eurasia organized their political and social relationships and pursued their ambitions and beliefs, it offers also an introduction to the methods historians use to construe the past, giving particular attention to the close reading and interpretation of original sources.

Exclusion: HIST 2000 (The Evolution of Western Civilization to 1700).

HIST 2010 (6CR)

WESTERN EUROPE FROM THE REFORMATION TO THE EVE OF WORLD WAR I

This course analyzes the major social, economic, political, and cultural

HIST 2410 (6CR)**CANADA FROM THE PREHISTORIC TO THE PRESENT**

This course introduces students to the main events, themes and issues of Canadian history from the pre-European period to the present.

Coverage is broad and particular emphases may vary from year to year.

Exclusion: HIST 3100, 3250

HIST 2510 (6CR)**THE AMERICAN EXPERIENCE**

This course introduces students to the main events, themes and issues of American history from the colonial period to the present. Coverage is broad and particular emphases may vary from year to year.

Exclusion: HIST 3650

HIST 2700 (6CR)**MODERN ASIA PACIFIC HISTORY**

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 2711 (3CR)**CHINA TO MODERN TIMES**

A historical survey of the major political, economic and social structures, as well as the legal, moral, philosophical and religious ideas of traditional China from the beginnings to the "meeting with the West".

Exclusion: HIST 2701

HIST 2721 (3CR)**CHINA IN THE MODERN WORLD**

An historical analysis of China's reaction to the West since 1800, her evolution into a modern state, her revolutions of the twentieth century and her prospects for the future, with special emphasis on the theme of continuity and change in the transformation of a traditional society.

Exclusion: HIST 2801

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

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.

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.

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

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.

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.

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

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.

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.

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

Employing both material and literary evidence, this course surveys the conditions of life and common ailments and treatments of the inhabitants of the Greek and Roman world from ca. 1000 BC.E. to ca. 500 C.E.. It also examines the origins of Western medicine in Greek and Roman science, alongside its alternatives, such as magic.

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.

HIST 3121 (3CR)**RENAISSANCE EUROPE**

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.

Prereq: Second year standing and at least 6 credits from History at the 1/2000 level; or permission of the Department.

Exclusion: HIST 3110

HIST 3131 (3CR)**REFORMATION, REVOLUTION AND ABSOLUTISM**

This course treats the history of Europe from the late fifteenth through the early eighteenth centuries. Topics covered include the fragmenting of medieval Christendom by the Reformation of the sixteenth century, the resulting wars of religion, the emergence of territorial states under constitutional and absolutist governments, European colonial and commercial expansion, witch-hunting, and the Scientific Revolution.

Prereq: Second year standing and at least 6 credits from History at the 1/2000 level; or permission of the Department.

HIST 3141 (3CR)**CELTIC AND GERMANIC EUROPE TO THE AGE OF CHARLEMAGNE**

This course examines the society and culture of the pre-Christian Irish, Frankish, Anglo-Saxon Norse and other Celtic and Germanic peoples and traces the impact of Christian-Roman civilization on their political, social and cultural development. Particular attention is given to the reign of Charlemagne.

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 (3CR)**EUROPE IN THE AGE OF CHIVALRY**

This course traces the growth of feudal society and chivalric culture from the collapse of the Carolingian Empire through the age of the crusades and analyses the role of feudalism in the formation of the major European states. Particular attention is paid to the inherent tensions between feudal principles, Christian monarchy and papal political theory and to the resulting struggles between them which shaped the differing political traditions of France, England and Germany down to early modern times.

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 3210 (6CR)**TUDOR AND EARLY STUART ENGLAND**

This course explores England's transformation from a weak and divided feudal kingdom at the end of the Wars of the Roses, (1485) into a united national state and nascent imperial power by the death of James I (1625). Major constitutional, socioeconomic and cultural developments are approached through the lives of the principal actors, from kings, queens and courtiers to poets, prelates and scholars.

Prereq: Second year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

Exclusion: HIST 3000

HIST 3211 (3CR)**REVOLUTION AND STABILITY: POLITICS AND SOCIETY IN EARLY MODERN BRITAIN 1603 - 1820**

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.

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

HIST 3221 (3CR)**MODERN BRITAIN**

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.

Prereq: Second year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

HIST 3231 (3CR)**PAX BRITANNICA: BRITAIN'S GLOBAL HEGEMONY 1815-1918**

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.

Prereq: Second year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

HIST 3241 (3CR)**IMPERIAL SUNSET: BRITAIN'S RETREAT FROM WORLD POWER 1918 TO THE PRESENT**

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.

Prereq: Second year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

HIST 3251 (3CR)**CLASS AND CAPITALISM: THE TRANSFORMATION OF THE BRITISH SOCIAL STRUCTURE 1750 - 1850**

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.

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

HIST 3461 (3CR)

CANADIAN EXTERNAL RELATIONS

This course examines Canada's diplomacy and external relations from the formative years to the present, with emphasis on the twentieth century. Throughout, attention is paid to the Canadian domestic political background and the role of public opinion in determining foreign policy.

Prereq: Second year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

Exclusion: HIST 3200, 3460

HIST 3501 (3CR)

A SOCIAL AND POLITICAL HISTORY OF FOOD IN NORTH AMERICA

This course will examine the way in which the need to eat has shaped the political and social environment in North America over the course of the last one thousand years. The general focus will be on changing patterns of food acquisition and the changing rituals of consumption. Particular attention will be paid to how changing technologies, demographic change and crises such as war have influenced the North American diet and the cultural significance of various types of foods.

Prereq: Second year standing; or permission of the Department.

HIST 3511 (3CR)

COLONIAL AMERICA

This course examines the development of the Anglo-American colonies and their eventual revolution. Sectional studies of New England, the middle colonies and the southern colonies will be supplemented by close attention to the lives of patriot and loyalist leaders.

Prereq: Second year standing and at least six credits in History at the 1000 or 2000 level; or permission of the Department.

Exclusion: HIST 3510

HIST 3521 (3CR)

THE AMERICAN SOCIAL AND CULTURAL EXPERIENCE

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.

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

HIST 3531 (3CR)

AMERICAN WOMEN'S HISTORY

This course will explore theoretical approaches to women's history through an examination of the role and experience of women in the

HIST 4510 (6CR)
THE AMERICAN WEST

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.

Prereq: Third year standing and at least six credits from among HIST 2510, 3501, 3511, 3521, 3531 and 3561.

HIST 4571 (3CR)
HISTORY OF THE MODERN AMERICAN WOMEN'S MOVEMENT

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.

Prereq: Third year standing and at least six credits from HIST 2510, WOST 2001 or HIST 3531; or permission of the Department.

HIST 4700 (6CR)
ADVANCED SEMINAR IN ASIA PACIFIC HISTORY

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.

Prereq: Third year standing and three credits from HIST 2721 or HIST 3731; or permission of the Department

HIST/POLS 4550 (6CR)
ADVANCED TOPICS IN UNITED STATES FOREIGN RELATIONS

Seminar in main currents of United States foreign relations.

Prereq: Third year standing and at least six credits in History at the 3000 level; or permission of the Department.

Note: This course is cross-listed as POLS 4550 and may therefore count as six credits in either discipline.

HIST 4950/4951 (6/3CR)
SPECIAL TOPICS - DIRECTED STUDY

Prereq: Permission of instructor and Department required.

HIST 4990 (6CR)
HONOURS THESIS

Independent research and study under direction of a member of the department; for students in History Honours programme.

INTERNATIONAL ECONOMICS AND BUSINESS

Interdisciplinary B.A. Programme

MINOR in International Economics/Business is 24 credits earned as follows

12 ~~Com Econ 9511, 2100~~, (or 1001 and 1011), Commerce 1001, 2201

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 programme provides students with a multidisciplinary foundation for understanding the complexities of today's international affairs.

Interdisciplinary B.A. Programme

INTERDISCIPLINARY MAJOR AREA OF STUDY in

INLR 3301 (3CR)**LATIN AMERICAN POLITICS AND SOCIETY**

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.

Prereq: INLR/POLS 2301, or permission of the instructor

INLR 3401 (3CR)**INTERNATIONAL POLITICAL ECONOMY**

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.

Prereq: INLR/POLS 2301, or permission of the instructor

INLR 4101 (3CR)**GLOBAL GOVERNANCE SIMULATION**

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.

Prereq: INLR/POLS 2301, INLR 3101. Enrolment is restricted to Honours students or by permission of the instructor.

INLR 4301 (3CR)**THE INTER-AMERICAN SYSTEM**

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.

Prereq: INLR/POLS 2301, INLR 3301, or permission of the instructor

INLR 4701 (3CR)**SPECIAL TOPICS IN INTERNATIONAL RELATIONS**

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.

Prereq: INLR/POLS 2301, restricted to Honours students in International Relations or by permission of the instructor

INLR 4950/51 (6CR/3CR)**DIRECTED READING IN INTERNATIONAL RELATIONS**

These courses enable an advanced student to pursue a special field of study in International Relations.

Prereq: Permission of the Programme Coordinator.

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

- 9 from Mathematics 3131, 3141, 4131
- 6 from Mathematics 3121, 3151, 3231, 3321, 3411, 3431, 3531, 4111, 4151, 4211
- 18 from Physics 3101, 3201, 3401, 3701, 3811, 3821
- 3 from Physics at the 4000 level
- 6 from Physics 4990

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 Programme Coordinator must be obtained.

MATHEMATICS COURSES

MATH 1011 (3CR)

SETS, FUNCTIONS AND RELATIONS

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 majors. Science majors 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 Mathematics. Credit will not be given for this course if credit has already been granted for MATH 1111 .

MATH 1111 (3CR)

INTROD1

MATH 2311 (3CR)**STATISTICS I**

This course is designed to introduce students to some of the concepts and techniques of probability and statistics. Attention is focused on some special probability distributions including binomial, normal, Student's *t*, chi-square, and *F*. Some basic statistical ideas are developed and the testing of statistical hypotheses is introduced. Examples are drawn from a wide variety of sources. A statistical software package is introduced.

Prereq: University preparatory level Mathematics or MATH 1011 and either MATH 1111, or registration in second year or higher; or permission of the Department.

Exclusion: PSYC 2001

MATH 2321 (3CR)**STATISTICS II**

Further applications of hypothesis testing. Topics selected from analysis of variance, linear and nonlinear regression, correlation estimation and prediction, independence, Wilcoxon and goodness-of-fit tests.

Prereq: MATH 2311 or 3311; or permission of the Department.

Exclusion: PSYC 2011, ECON 2701

MATH 3011 (3CR)**SET THEORY AND MATHEMATICAL LOGIC**

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.

Prereq: MATH 2211; or permission of the Department.

MATH 3031 (3CR)**HISTORY OF MATHEMATICS**

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.

Prereq: MATH 1121 (or 1131) and 6 credits from MATH 2111, 2121, 2211 and 2221.

MATH 3111 (3CR)**REAL ANALYSIS I**

A systematic and rigorous study of the real numbers and functions of a real variable, emphasizing limits and continuity.

Prereq: MATH 2111, 2121, 2211; or permission of the Department.

Exclusion: MATH 3110

MATH 3121 (3CR)**REAL ANALYSIS II**

A continuation of Mathematics 3111 including the study of concepts from the Calculus, including differentiation and integration.

Prereq: MATH 3111; or permission of the Department.

Exclusion: MATH 3110

MATH 3131 (3CR)**MATHEMATICAL METHODS FOR DIFFERENTIAL EQUATIONS**

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.

Prereq: MATH 2121 and 2221; or permission of the Department.

MATH 3141 (3CR)**VECTOR CALCULUS**

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.

Prereq: MATH 2111; or permission of the Department.

MATH 3151 (3CR)**AN INTRODUCTION TO MATHEMATICAL MODELLING**

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.

Prereq: MATH 2121 and 2221; or permission of the Department.

MATH 3211 (3CR)**MODERN ALGEBRA I**

An introduction to the theory of groups and rings.

Prereq: MATH 2211 and MATH 2221; or permission of the Department.

MATH 3221 (3CR)**ADVANCED LINEAR ALGEBRA**

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.

Prereq: MATH 2221; (MATH 2211 is recommended); or permission of the Department.

MATH 3231 (3CR)**NUMBER THEORY**

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.

Prereq: MATH 2211; or permission of the Department.

MATH 3251 (3CR)

INTRODUCTION TO COMBINATORICS AND GRAPH THEORY

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).

Prereq: MATH 2211, 2221; or permission of the Department.

MATH 3311 (3CR)

PROBABILITY AND STATISTICS I

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.

Prereq: MATH 2111; or permission of the Department.

Exclusion: MATH 3310

MATH 3321 (3CR)

PROBABILITY AND STATISTICS II

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.

Prereq: MATH 3311; or permission of the Department.

Exclusion: MATH 3310

MATH/COMP 3411 (3CR)

NUMERICAL ANALYSIS

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.

Prereq: MATH 1121, 2221, and COMP 1711 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.

MATH 3431 (3CR)

ORDINARY DIFFERENTIAL EQUATIONS

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

MATH 4151 (3CR)

BOUNDARY AND EIGENVALUE PROBLEMS

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.
Prereq: MATH 3131; or permission of the Department.

MATH 4161 (3CR)

TOPICS IN CLASSICAL APPLIED MATHEMATICS

This course covers selected topics in Classical Applied Mathematics, depending on the background and interests of the students involved.
Prereq: MATH 4131 and 4151; or permission of the Department.

MATH 4211 (3CR)

TOPICS IN ALGEBRA

This course covers selected topics in Algebra, depending on the background and interests of the students involved.
Prereq: MATH 3221; or permission of the Department.

MATH 4221 (3CR)

MODERN ALGEBRA II

The classical theory of fields and rings and their applications.
Prereq: MATH 3211; or permission of the Department.

MATH 4311 (3CR)

TOPICS IN PROBABILITY AND STATISTICS

This course covers selected topics in Probability and Statistics, depending on the background and interests of the students involved.
Prereq: MATH 3311 and 3321; or permission of the Department.

MATH/COMP 4631 (3CR)

THEORY OF COMPUTATION

This course is an introduction to theoretical aspects of Computer Science such as formal language and automata theory and complexity theory.
Prereq: MATH 2211 and COMP 1721; or permission of the Department.

Note: This course is cross listed as COMP 4631 and may therefore count as three credits in either discipline.

MATH 4951 (3CR)

SPECIAL TOPICS IN MATHEMATICS

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 programme 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, Japanese, Spanish and Linguistics. Linguistics, cinema, and some literature and civilization courses are offered in English. Students can also benefit from our exchange programs in France, Germany, Spain and Japan. The courses offered in each of these disciplines, as well as the Majors, Minors and Honours programmes available, are outlined under each discipline heading. An interdisciplinary Major in Modern Languages is also offered, as outlined below.

Students who plan to specialize in one or more languages by electing a Minor, Major, or Honours programme 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 programme advisor in the Department of Modern Languages and Literatures before registering for second year, since most programmes require the advisor's approval of optional courses.

MODERN LANGUAGES

criticism. A series of prizes and medals are awarded each year to students who distinguish themselves in French Studies.

The Department sponsors other programmes and activities which support and enrich the course programme:

- Le Cercle français
- Le Ciné-Club
- Guest speakers (Jean Bousquet Lecture Series)
- Tintamarre, a bilingual theatrical troupe
- La Maison française (a French-language residence)
- French programming, CHMA-FM Radio
- Study Abroad Programme at Université de Strasbourg, France
- Certificate of Bilingualism (see Section H under Degrees and Certificates)

PLACEMENT IN FRENCH

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

<http://www.mta.ca/frenchplacement/>. Alternatively, a paper copy may be obtained by mail or fax from the Secretary of the Department of Modern Languages and Literatures, (506) 364-2478. Students completing Majors, Minors, or Honours programmes in French should be aware that any exemptions from 1/2000 level courses obtained through the placement process must be replaced on their programmes by credits at the upper levels.

Disciplinary B.A. Programmes

Important note for advanced students: Students who have completed FREN 2401 or who have been placed in FREN 2501 may enrol for FREN 2501 and 2601 concurrently.

MINOR in French is 24 credits earned as follows:

- 6 French 1700, if required by placement;
- 9 French 2401, 2501, 2601
- 3 French 3101
- 6 from French language and/or literature at the 3/4000 level.

Note: French 1801 and 2201 may only be included in the requirements for a minor if French 1700 is 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 levels.

MAJOR AREA OF STUDY in French is 60 credits earned as follows:

- 9 from French 2401, 2501, 2601 (3 courses)
- 15 from French language courses at the 3/4000 level (5 courses)
- 18 from French literature chosen from at least 2 centuries (series 3200 through 3600) and including 3 credits from the 3700 series and 3 credits from 3700 or 3800 series (6 courses)
- 18 from complementary courses in Arts & Letters and/or Humanities, including French 1700, if required by placement, French 1801 and 2201

Note: All complementary courses must be chosen in consultation with the Programme Advisor.

HONOURS in French is 66 credits earned as follows:

- 9 French 2401, 2501, 2601
- 15 from French language at 3/4000 levels
- 18 from French 3200, 3300, 3400, 3500, 3600 series, including at least 3 credits in four of the five series
- 3 from French 3700 series
- 3 from the 3700 or 3800 series (other than 3801)
- 3 French 3801 (Critique Littéraire);
- 6 in French 4990 (Mémoire)
- 9 from French at the 3/4000 level and Linguistics, chosen in consultation with the Programme 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 Programme Coordinator must be obtained.

FRENCH COURSES

FREN

FREN 1801 (3CR)

ASPECTS OF MODERN FRENCH CULTURE

Presented in English, this course aims to acquaint students with some of the issues and debates that help us to understand French culture, its changing nature and its place in the modern world. Although some attention is paid to French history, politics and society, the primary goal of the course is to explore the multitude of voices that both define and divide modern France. There is no placement test requirement for this course.

Prereq: None. Reading knowledge of French is desirable but not essential.

FREN 2100 (6CR)

FREN 3271 (3CR)

LES DÉBUTS DU THÉÂTRE EN FRANCE

Study of the origins of modern French theatre from the 12th to the

FREN 401

FREN 3771 (3CR)

THÉÂTRE DU CANADA FRANÇAIS

Study of the principal currents and works of the theatre of French Canada. Representative authors and works from among: Bouchard, Dubé, Garneau, Gélinas, Germain, Ducharme, Laberge, Tremblay and Maillet.

Prereq: FREN 2601; or permission of the Department.

FREN 3801 (3CR)

LA CRITIQUE LITTÉRAIRE FRANÇAISE

An introduction to the principal methods of modern and contemporary French literary criticism. The course includes representative approaches from among structuralism, feminism, hermeneutics, socio-marxism, and post-structuralism.

Prereq: FREN 2601; or permission of the Department.

FREN 3821 (3CR)

L'ÉCRITURE AU FÉMININ: ÉCRIVAINES D'EXPRESSION FRANÇAISE

Study of literary works by women writers of French expression chosen from any time period(s) from the Middle Ages to the present. The focus, to be 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. The approach and methodology will be based on feminist theory and reflect feminist perspectives.

Prereq: FREN 2601; or permission of the Department.

FREN 3831 (3CR)

LITTÉRATURE DU MONDE FRANCOPHONE

Selected works from the French-speaking world outside Metropolitan France and Québec. The syllabus will be chosen by the instructor and may be comparative or focus on one or more geographic areas such as Acadia, other Canadian regions, the Caribbean, North Africa, Central and West Africa, Asia or French-speaking Europe.

Prereq: FREN 2601; or permission of the Department.

FREN 3881 (3CR)

ÉCRIVAINS ET ÉCRITURES

A study of French writers who have written on the dialectic of writing and reading. Texts studied will be from different periods and may include theoretical treatises, as well as creative works (novels, poems, plays) which embody the development of the dialectic.

Prereq: FREN 2601; or permission of the Department.

FREN 4001 (3CR)

STYLISTIQUE

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.

Prereq: FREN 3111; or permission of the Department.

Programmes and Activities

The Department sponsors other programmes and activities which support and enrich the course programme:

Der Deutsche Klub, a student-run club which supplements the academic programmes.

Das Deutsche Haus, the German-language section of the Pavillon Bousquet, a tri-lingual residence.

Tübingen Exchange, between Mount Allison University and the Universität Tübingen which permits students to complete an academic year abroad.

GERM 3101 (3CR)**ROMANTIC POETRY**

This course will place its main emphasis on the genre of romantic poetry and poetics, including German Lieder, to show the close relationship between music and literature of the period. Also the continuation of Romantic concepts of poetry within the twentieth century will be examined. This course is also designed to develop students' reading and writing ability in German. Special emphasis will be placed on oral skills by frequent poetry reading.

Prereq: GERM 2000; or permission of the Department.

GERM 3111 (3CR)**ROMANTIC PROSE**

Representative works of the romantic period in German literature, including short stories, Märchen and dramas will be read. Wherever possible, contemporary works of other European literatures will be drawn on so that a definition of Romanticism in its European context will emerge. This course is also designed to develop students' reading and writing ability as well as aural and oral skills through frequent discussions.

Prereq: GERM 2000; or permission of the Department.

GERM 3211 (3CR)**NINETEENTH CENTURY GERMAN LITERATURE**

Representative works of "Biedermeier" and poetic realism will be examined as a reaction to earlier German idealistic literature and as a reflection of a more scientific, objective view of the world. The more radical realism of "Naturalismus" toward the end of the 19th century will be contrasted to the symbolistic movement, impressionism and neo-romanticism. This course will also expose students to various approaches to literary interpretations as well as develop their reading, aural and oral skills in German.

Prereq: GERM 2000; or permission of the Department.

GERM 3221 (3CR)**EARLY TWENTIETH CENTURY GERMAN LITERATURE**

This course traces German literature as a reflection of political, sociological, economic, and scientific developments from a period of optimism before World War I to the turbulent twenties, through years of oppression during the Third Reich to the immediate post-war period dominated by attempts to come to terms with Germany's war-time experiences. This course is also designed to develop the students' reading, aural, and oral skills in German.

Prereq: GERM 2000; or permission of the Department.

GERM 3231 (3CR)**MODERN GERMAN LITERATURE**

Selected works of writers from German speaking countries will be read. These works will reflect on the partition of Germany after World War II into politically opposing camps, the economic miracle in West Germany with its social implications, and the continued pre-occupation of a united Germany with its fascist and communist past. This course is designed to develop the student's reading ability and aural and oral skills in German.

Prereq: GERM 2000; or permission of the Department.

GERM 3301 (3CR)**ENLIGHTENMENT LITERATURE**

A study of representative works of those authors who helped shape the period generally known as the German Enlightenment, the first age in German cultural history which recognized the instrumental role people can play in determining their own destiny in this world (cf. Kant's definition of "Aufklärung"). Authors to be studied include Brockes, Haller, Gellert, Lessing, and Wieland.

Prereq: GERM 2000; or permission of the Department.

GERM 3311 (3CR)**LITERATURE OF THE LATE 18TH CENTURY**

It is the aim of this course to demonstrate the underlying unity in the varied patterns which constitute this period. Terms such as Empfindsamkeit and Sturm und Drang will all be shown to be contributing to, and be manifestations of, the complex nature of Enlightenment from which German Classicism, Romanticism and Realism emerge as resulting alternatives. Authors to be studied include Lenz, Herder and the young Goethe and Schiller.

Prereq: GERM 2000; or permission of the Department.

GERM 4030 (6CR)**GOETHE AND SCHILLER**

A close reading of major works of Goethe and Schiller. The course traces the intellectual and literary development in Germany from the Storm and Stress period of the young Goethe to German Classicism which coincides with the friendship and interaction between Goethe and Schiller. In addition to several dramas by both authors, their major poems will be discussed. The last eight weeks or so will be devoted to a close study of Faust I and II. The course will be conducted as a seminar involving class discussion and lectures. Two essays and two examinations will be required.

Prereq: Six 3000 level German credits; or permission of the Department.

GERM 4040 (6CR)**SURVEY OF EARLY GERMAN LITERATURE**

The development of German literature from the Middle Ages to the Age of Enlightenment will be traced through detailed analysis and discussion of selected works from each period. Texts chosen will be examined within their cultural and social context, as well as with regard to their relation to the other European Literatures. The ultimate aim of the course is the furthering of an understanding of the forces (cultural, social, economic) which helped create the Weimar Classicism of Goethe and Schiller. The course will be conducted as a seminar (two 75-minute periods per week). Two essays and two examinations will be required.

GERM 4950/4951 (6/3CR)**SEMINAR**

Detailed study of individual authors or literary themes. The content of the course must be approved by the Department and arrangements made during the preceding Spring.

Prereq: Six 3000 level German credits; or permission of the Department.

GERM 4990 (6CR)

HONOURS ESSAY

The subject and program of research must be submitted to the Department for approval, normally at the end of the student's third year; and the candidate is to be directly responsible to a supervisor and the Department. The essay must be written in German.

Prereq: Six 3000 level German credits; or permission of the Department.

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 programmes and activities which enrich the course programme. These include Club Hispanico, a film series, Casa Hispana (the Spanish-language section of the Pavillon Bousquet, a tri-lingual residence) and the possibilities of study in Spain, Central or South America. An exchange programme with the Universidad Autonoma de Madrid provides a special opportunity for advanced students.

Disciplinary B.A. Programmes

MINOR in Hispanic Studies is 24 credits earned as follows

18 from Spanish 1100, 2100, 3101, 3111

6 either from Spanish 2001, 2011, 3001, 3011

or

from Spanish 3001, 3011, and literature courses in Spanish at the 3000 level, chosen in consultation with the Programme Advisor.

MAJOR AREA OF STUDY in Hispanic H

B.A. MINOR in Music is 24 credits earned as follows

- 6 from 1101 and 1111
- 6 from 1201, 1211
- 6 from 2201 and 2211 or 2101 and 2111
- 6 from 3221*, 3231*, 3303, 3413, 2141, 2151, 3141, 3151, 3161, 3171, 3241, 3251, 3423, 4951

* May be repeated if topic differs

B.A. HONOURS in Music is 57 credits earned as follows

- 6 from 1101 and 1111
- 24 from 1201, 1211, 2101, 2111, 2201, 2211, 3241, 3251
- 3 from 1629-4629, 1639-4639, 1659- 4659, 1669-4669, 2679-4679
- 12 from 3221*, 3231*, 4221*, 4181, 4191, 3303, 3413, 3423, 4951, up to 3 credits from Music Ensembles.
- 12 from Music electives chosen in consultation with the Department of Music, including Applied Music 1500 and 2500. Students must audition for entry to Music 1500.

* May be repeated if topic differs

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 Programme Coordinator must be obtained.

THEORY AND COMPOSITION

Placement of students in Music 1101 and 1111 will be determined by the Department on the basis of a placement test given as part of the audition process, and during orientation week. Music 1001 and 1011 may not be used to fulfill the requirements for the Bachelor of Music degree, or the Honours, Major or Minor in Music.

MUSC 1001 (3CR)
FUNDAMENTALS OF

MUSC 2141 (3CR)**ELEMENTARY COMPOSITION I**

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.

Prereq: MUSC 1111; or permission of the Department.

MUSC 2151 (3CR)**ELEMENTARY COMPOSITION II**

A continuation of Music 2141 in Term II.

Prereq: MUSC 1111; or permission of the Department.

MUSC 3141 (3CR)**INTERMEDIATE COMPOSITION I**

A continuation of Music 2151 with work in both small and large forms, using concepts, techniques and idioms of 20th century art music.

Prereq: MUSC 2151; or permission of the Department.

MUSC 3151 (3CR)**INTERMEDIATE COMPOSITION II**

A continuation of Music 3141 in Term II.

Prereq: MUSC 3141; or permission of the Department.

MUSC 4141 (3CR)**ADVANCED COMPOSITION I**

A continuation of Music 3151 with adding emphasis on the development of an individual style.

Prereq: MUSC 3151; or permission of the Department.

MUSC 4151 (3CR)**ADVANCED COMPOSITION II**

A continuation of Music 4141 in the Term II.

Prereq: MUSC 4141; or permission of the Department.

MUSC 3161 (3CR)**INTRODUCTION TO ARRANGING I**

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.

Prereq: MUSC 2111; or permission of the Department

MUSC 3171 (3CR)**INTRODUCTION TO ARRANGING II**

A continuation of Music 3161 in Term II.

Prereq: MUSC 3161; or permission of the Department.

MUSC 4181 (3CR)**ANALYTICAL TECHNIQUES I**

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.).

Prereq: MUSC 2111; or permission of the Department.

MUSC 4191 (3CR)**ANALYTICAL TECHNIQUES II**

A continuation of Music 4181 in Term II.

Prereq: MUSC 4181; or permission of the Department.

MUSIC HISTORY AND LITERATURE**MUSC 1201 (3CR)****MUSIC HISTORY AND LITERATURE I**

This is the first course in a series designed to introduce students to the history and literature of music in the Western World. The first part of the course will provide an overview of the various style eras and genres.

This will be followed by a survey of music from the Medieval and Renaissance eras. Changing concepts, styles, forms and media are considered and compared through readings, score study, recordings, library research, and classroom performance.

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

MUSC 1211 (3CR)**MUSIC HISTORY AND LITERATURE II**

A survey of music history and literature of the Baroque period.

Prereq: MUSC 1201; or permission of the Department.

Coreq: MUSC 1111

MUSC 2001 (3CR)**INTRODUCTION TO MUSIC**

This course will include an introduction to the basic elements of music. The development of listening skills and an understanding of these elements will be fostered through an examination of various styles

which will include world music and/or contemporary popular music.

Exclusion: MUSC 2000

MUSC 2011 (3CR)**Survey of Western Music**

In this course, form and style will be interrelated with historical considerations in a chronological approach to the history of western music. Live performances will be included whenever possible.

Exclusion: MUSC 2000

MUSC 2201 (3CR)**MUSIC HISTORY AND LITERATURE III**

A survey of music history and literature of the Pre-Classical and Classical periods through Beethoven.

Prereq: MUSC 1211; or permission of the Department.

Coreq: MUSC 2101

MUSC 2211 (3CR)

MUSIC HISTORY AND LITERATURE IV

A survey of music history and literature of the Romantic period, extending from Beethoven's contemporaries through the nineteenth century.

Prereq: MUSC 2201; or permission of the Department.

Coreq: MUSC 2111

MUSC 3001 (3CR)

INTRODUCTION TO MUSIC IN CANADA

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.

Prereq: Enrolment in the B.Mus. or B.A. (Major or Honours in Music); or permission of the Department.

Exclusion: MUSC 3000

MUSC 3221 (3CR)

SELECTED COMPOSER(S) STUDY I/II

The study of specific works by a selected composer or group of closely related composers. The choice of composer(s) will be announced in the spring, prior to pre-registration. The works selected will be examined from both an analytical and a historical perspective.

Prereq: MUSC 2211; or permission of the Department.

MUSC 3231 (3CR)

SELECTED GENRE STUDY I/II

The study of works from a selected genre of music. The choice of genre will be announced in the previous spring, prior to pre-registration. The range of choices will include such genres as symphonies, string quartets, art song, oratorio, opera, piano music, chamber music, jazz, or such other genres as are deemed appropriate by the Department. The music will be studied from both an analytical and historical perspective.

Prereq: MUSC 2211; or permission of the Department.

MUSC 4221 (3CR)

SEMINAR IN MUSIC HISTORY I/II

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.

Prereq: MUSC 3221; or permission of the Department.

Note: Students may register for MUSC 3221, 3231, and/or 4221 more than once, provided the subject matter differs.

MUSIC EDUCATION

Note: Music 3303, 3311, 4311, and 4363, are open to B. Mus. and B.A. (Honours or Major in Music) students; other students by permission of the Department, contingent on the student's musical background and completion of the necessary prerequisite(s). Registration in other instrumental methods courses is also subject to the availability of

musical instruments. Students should consult the timetable carefully regarding the semester(s) in which these courses are offered.

MUSC 3303 (3CR)

VOCAL METHODS

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

MUSC 4353 (3CR)

PERCUSSION METHODS

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 4363 (3CR)

KEYBOARD METHODS

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.

Prereq: MUSC 3500 or MUSC 2500 and enrolment in MUSC 3500; or permission of the Department.

APPLIED STUDIES

MUSC 1500/2500/3500/4500/4501 (6/3 CR)

CHIEF PRACTICAL I, II, III, IV

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.

Prereq: For 1500: audition; for advanced levels: successful completion of the preceding course in the sequence.

MUSC 4590/4593 (6/3 CR)

RECITAL

Preparation and execution of a public recital programme (30 minutes for 4591 or 60 for 4590) under the supervision of the student's principal teacher. The programme must be planned at the end of the student's third year in consultation with the teacher, and it must be submitted to the department for approval.

Prereq: Students enrolling in 4590 must attain at least A- in MUSC 3500, and must have participated in at least one half-recital. Students enrolling in 4593 must attain at least A- in MUSC 3500, and must have participated in at least two collegia concerts (or the equivalent) since enrolling in the B.Mus. programme. Students enrolling in 4590 or 4593 must have completed MUSC 2111 and 2211.

MUSC 4600 (6CR)

ACCOMPANIMENT

This course is designed to allow fourth year keyboard majors to concentrate on accompaniment in lieu of the Chief Practical, 4500. The

MUSC 3413 (3CR)

CHORAL CONDUCTING

A practical course designed to train the student in the fundamentals of conducting. Students will help each other by acting as an ensemble for student conductors.

Prereq: MUSC 2111; or permission of the Department

Coreq: MUSC 3303

MUSC 3423 (3CR)

INSTRUMENTAL CONDUCTING

A practical course designed to train musicians in fundamentals of Instrumental conducting.

Prereq: MUSC 2111; or permission of the Department

MUSC 4951 (3CR)

SPECIAL TOPICS IN MUSIC

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.

Prereq: Completion of the core Music courses in the area of the Special Topics elective; or permission of the Department.

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 Programme Coordinator must be obtained.

PHIL 1601 (3CR)
PLATO'S REPUBLIC

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)
SELF, SOCIETY AND FREEDOM

This course will examine various accounts given of 'the self' in the history of ideas. What values can be accorded to human beings are dependent upon our accounts of the nature of the self, especially in relations: social, political, intellectual, emotional. The main theme to be explored will revolve around the issue of whether freedom is anything more than an illusion formulated to control the population.

PHIL 1651 (3CR)
THE CHANGING IMAGE OF NATURE

Our intellectual heritage is laced with shifting and conflicting attitudes towards "Nature" which impact everything from how we can come to know about nature, scientifically, to ethical implications for how human beings relate to other natural beings. This course will use readings from the history of western philosophy, especially from the early modern era, to assess the extent to which we have inherited these convictions or developed alternatives to them. space added here

PHIL 2511 (3CR)
INTRODUCTORY PHILOSOPHY OF SCIENCE

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.

Prereq: Three credits from Humanities 1600 Series; or permission of the Department.

PHIL 2611 (3CR)
INTRODUCTORY LOGIC I

A study of and exercise in the elementary forms of focussed thinking. Specific topics include the nature of categorical formulation, the techniques for distinguishing valid from invalid reasoning (deductive inference), and the principles violated in typical varieties of fallacious reasoning.

Prereq: Three credits from Humanities 1600 Series; or permission of Department.

PHIL 2621 (3CR)
INTRODUCTORY LOGIC II

A study of and exercise in more advanced forms of focused thinking. Specific topics include the Greek understanding of the basis and goal of learning (inductive inference) and the modern logical reinterpretation of deductive, inductive, and fallacious reasoning.

Prereq: PHIL 2611; or permission of the Department.

PHIL 2701 (3CR)
INTRODUCTORY ETHICS

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.

Prereq: Three credits from Humanities 1600 Series; or permission of the Department

PHIL 2801 (3CR)
INTRODUCTION TO METAPHYSICS

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, as they appear in the discussions of the world's great philosophers from Lao Tzu to Shankara, and from Aristotle to Bertrand Russell.

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PHIL 3231 (3CR)

MODERN PHILOSOPHY: THE EMPIRICIST TRADITION

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. Prereq: Three credits from 2000-level Philosophy; or permission of the Department.

PHIL 3300 (3CR)

MODERN SOCIAL AND POLITICAL PHILOSOPHY

An investigation of the early foundations of modern political liberalism with a special concentration on the concepts of the state of nature, autonomy, and social contract. Authors considered will include: Machiavelli, Hobbes, Hume, Spinoza, Locke, Mill and Rousseau. Prereq: Three credits from 2000-level Philosophy; or permission of the Department.

PHIL 3421 (3CR)

NINETEENTH CENTURY AMERICAN PHILOSOPHY

A study of the principles of the American spirit as early formulated in the works of such authors as Thomas Paine and Thomas Jefferson, Benjamin Franklin and Walt Whitman, H.D. Thoreau and R.W. Emerson. Central to the American spirit is the concern for individuality and practicality. Prereq: Three credits from 2000 level Philosophy; or permission of the Department.

PHIL 3451 (3CR)

TWENTIETH CENTURY AMERICAN PHILOSOPHY

A study of selected American thinkers from Henry Adams to the present, including William Faulkner and John Dewey. Prereq: Three credits from 2000-level Philosophy; or permission of the Department.

PHIL 3500 (3CR)

PHILOSOPHY OF THE LIFE SCIENCES

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.

Prereq: Normally Philosophy 2511 is expected. However B.Sc. students already doing 3/4000-level work in their own field, and students in amife

PHIL 4311 (3CR)

19TH & 20TH CENTURY POLITICAL THOUGHT

This course examines the theoretical and political grounds upon which

PHYS 3101 (3CR)

ELECTRICITY AND MAGNETISM

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 multiple 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.

Prereq: PHYS 1551, MATH 2111 and MATH 2121; or permission of the Department.

PHYS 3201 (3CR)

STATISTICAL MECHANICS

The conditions under which the Maxwell-Boltzmann distribution, the Bose-Einstein distribution, and the Fermi-Dirac distribution apply are

PHYS 3751 (3CR)

PHYSICS OF ENERGY PRODUCTION AND TRANSFER

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.

Prereq: CHEM 1021, PHYS 1551 and MATH 1121;

Prereq or Coreq: PHYS 3701 or CHEM 2211; or permission of Department

PHYS 3811 (3CR)

MODERN PHYSICS

This course considers the two major revolutionary ideas of modern physics, quantum mechanics and special relativity. Lorentz transformations, length contraction and time dilation, relativistic mass and momentum are considered, including the fourvector relativistic notation. Evidence for quantization along with early models for atoms is then briefly examined and De Broglie's hypothesis for the matter wave is discussed. The Schrodinger equation and its solutions for some usual systems are the main topics of this course. The course ends with a look at the three dimensional systems and a discussion of angular momentum in quantum mechanics.

Prereq: PHYS 2251.

Coreq: PHYS 3101 and MATH 2121; or permission of the Department

Exclusion: PHYS 3811- Quantum Waves

PHYS 3821 (3CR)

QUANTUM MECHANICS I

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.

Prereq: PHYS 3811 and MATH 2221; or permission of the Department.

PHYS 4101 (3CR)

ELECTROMAGNETIC THEORY

An advanced treatment of static and time-dependent electric and magnetic fields in materials. Particular attention will be given to the treatment of wave propagation in materials.

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 Programme Coordinator must be obtained.

POLITICAL SCIENCE COURSES

POLS

POLS 3200 (6CR)

EUROPEAN POLITICS

A comparative analysis of government and politics in Western Europe with particular reference to the United Kingdom, France and Germany.
Prereq: POLS 1000; or permission of the Department.

POLS 3310 (6CR)

STRATEGIC STUDIES

An analysis of strategic thought in the 19th and 20th centuries, with particular reference to the ideas of Karl von Clausewitz and their relevance to the nuclear era.
Prereq: POLS 1000; or permission of the Department.

POLSHIST 3731 (3CR)

JAPAN IN THE MODERN WORLD

This course will examine Japan's relations with the international

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. Programmes

B.A. & B.Sc. MINOR in Psychology is 24 credits earned as follows

- 6 from Psychology 1001, 1011
- 6 from Psychology 2101, 2201, 2301
- 12 from Psychology, including 6 from the 3/4000 level, chosen in consultation with the Programme Advisor

B.A. & B.Sc. MAJOR AREA OF STUDY in Psychology is 60 credits earned as follows

PSYC 2001 (3CR)
RESEARCH DESIGN AND

PSYC 2501 (3CR)

PSYCHOLOGY OF WOMEN

This course systematically reviews psychological theories and research findings about women's development. Topics will 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 will also be considered.

Prereq: PSYC 1001 and 1011 and at least second-year standing; or permission of the Department.

PSYC 2601 (3CR)

PSYCHOLOGY OF ABNORMAL BEHAVIOUR

This course will present an overview of psychological disorders: their biological and social origins, classification, symptoms and common treatments.

Prereq: PSYC 1001 and 1011 and at least second-year standing; or permission of the Department.

Exclusion: PSYC 3061 (Psychopathology)

PSYC 2701 (3CR)

PERSONALITY

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

PSYC 3221 (3CR)

PSYCHOLOGICAL LINGUISTICS

This lecture and laboratory course will describe our present state of knowledge concerning the mechanisms underlying the production, comprehension, and use of language.

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 (Psycholinguistics)

PSYC 3231 (3CR)

EMOTION

This lecture and laboratory course reviews theories and evidence on the nature and variety of emotions and the conscious experiences that accompany them. The evidence for innate patterns of neural and hormonal response underlying proposed "basic" emotions is examined, along with theories of their individual and evolutionary function. Special attention is given to the influence of ordinary language on our conception of emotion and as evidence for and against the various theories proposed.

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 3301 (3CR)

INTERPERSONAL RELATIONS

A lecture and laboratory course examining aspects of interpersonal attraction and interpersonal relationships. Topics covered will include attachment and affiliation, interpersonal attraction, developing and maintaining close relationships, friendship and love, relationship problems, as well as relationship termination.

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 3401 (3CR)

LANGUAGE DEVELOPMENT IN CHILDREN

This lecture and laboratory course will examine the development of language. The precursors of language in the neonate; phonological, 000

PSYC 4201 (3CR)

ADVANCED TOPICS IN COGNITION

Advanced seminars on subjects of current theoretical interest in the psychology of attention, memory and thought.

Prereq: PSYC 2201; at least two courses in Psychology at the 3000 level plus at least third year standing; or permission of the Department.

Exclusion: PSYC 4021 (Advanced Topics in Cognition)

PSYC 4301 (3CR)

ADVANCED TOPICS IN SOCIAL PSYCHOLOGY

An advanced seminar on selected topics of current theoretical interest in the study of social behaviour.

Prereq: PSYC 2301; at least two courses in Psychology at the 3000 level plus at least third year standing; or permission of the Department.

Exclusion: PSYC 4081 (Advanced Topics in Social Psychology)

PSYC 4401 (3CR)

ADVANCED TOPICS IN DEVELOPMENTAL PSYCHOLOGY

This course is designed to provide a deeper understanding of the methods and concepts of developmental psychology through intensive treatment of specific research areas.

Prereq: One from PSYC 2401, 2411, 2421; at least 2 courses in Psychology at the 3000 level plus at least third year standing; or permission of the Department.

Exclusion: PSYC 4031 (Advanced Topics in Developmental Psychology I), PSYC 4131 (Advanced Topics in Developmental Psychology II)

PSYC 4411 (3CR)

ADVANCED TOPICS IN ADULTHOOD AND AGING

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.

Prereq: PSYC 2411 or 2421; at least 2 courses in Psychology at the 3000 level plus at least third-year standing; or permission of the Department

PSYC 4501 (3CR)

SELECTED TOPICS

A senior seminar course devoted to topics in Psychology not covered by our current course offerings.

Prereq: At least two courses in Psychology at the 3000 level plus third year standing; or permission of the Department.

Exclusion: PSYC 4550 (Selected Topics)

PSYC 4601 (3CR)

ADVANCED TOPICS IN PSYCHOPATHOLOGY

This course presents an in-depth examination of theory and research pertinent to a topic of current interest in the field of Psychopathology.

Prereq: PSYC 2601; at least two courses in Psychology at the 3000 level plus at least third year standing; or permission of the Department.

Exclusion: PSYC 4061 (Advanced Topics in Psychopathology)

PSYC 4701 (3CR)

ADVANCED TOPICS IN PERSONALITY

This course presents an in-depth examination of theory and research pertinent to a topic of current interest in the field of Personality.

Prereq: PSYC 2701; at least two courses in Psychology at the 3000 level plus at least third year standing; or permission of the Department.

Exclusion: PSYC 4071 (Advanced Topics in Personality)

PSYC 4903 (3CR)

HONOURS SEMINAR

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.

Coreq: PSYC 4990; or permission of the Department.

PSYC 4950/4951 (6/3CR)

DIRECTED STUDY ON SPECIAL TOPICS

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 advisor (m)312 545.

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 levels) lay the foundation for focused study of particular traditions and for courses that explore how

RELG 2401 (3CR)

INTRODUCTION TO EASTERN RELIGIONS

This course introduces the origins, history, philosophy and practice of the major religions of India, China, and Japan, including Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, and Shinto.

Exclusion: RELG 2211

RELG 2801 (3CR)

INTRODUCTION TO WESTERN RELIGIONS

This course examines the history, beliefs, practices, and contemporary socio-cultural significance of what are conventionally called the Western religions: Judaism, Christianity, and Islam. The course will also briefly examine Ancient Near Eastern religions (Egyptian and Mesopotamian), Greco-Roman paganism, as well as Zoroastrianism and Baha'i.

Exclusion: RELG 2201

RELG 2811 (3CR)

INTRODUCTION TO THE BIBLE I: HEBREW BIBLE

An introduction - in English translation - to the literature of the Hebrew Bible, or Old Testament. Selected passages are discussed in the context of Israel's history, religion, and society, set against the backdrop of the Ancient Near Eastern civilizations of Egypt and Mesopotamia. We will seek to understand why these texts and the religion they represent have been so influential and in what ways they still illuminate and speak to the human situation today.

Exclusion: RELG 2001

RELG 2821 (3CR)

INTRODUCTION TO THE BIBLE II: NEW TESTAMENT

This course discusses the literature of the New Testament, in English translation, in light of the historical and cultural conditions from which it emerged. The New Testament is analyzed both as a witness to Jesus and to Christian origins, and as a text which has exerted enormous creative power within human culture and history.

Exclusion:

RELG 3901 (3CR)

THEMES AND THEORIES IN RELIGIOUS STUDIES

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.

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.

RELG 3911 (3CR)

CONTEMPORARY ETHICAL ISSUES (WESTERN)

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.

Prereq: RELG 2801 or 3601 or PHIL 2701; or permission of the Department.

Exclusion: RELG 3541

RELG 3921 (3CR)

EASTERN RELIGIONS AND CONTEMPORARY ETHICAL ISSUES

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.

Prereq: RELG 2401; or permission of the Department.

RELG 3931 (3CR)

THE BIBLE AND THE ARTS

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.

Prereq: RELG 2801 or 2811 or 2821; or permission of the Department.

RELG 3941 (3CR)

RELIGION, REVOLUTION AND VIOLENCE

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.

Prereq: RELG 2401 and 2801; or permission of the Department.

Exclusion: RELG 3231

RELG 3951 (3CR)

ETHICS IN BUSINESS

A consideration of how ethics is and may be involved in business practice for individuals and corporations.

Prereq: Open to third and fourth year students; or permission of the Department.

Exclusion: RELG 3550

RELG 3961 (3CR)

ETHICS IN BUSINESS CULTURE

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.

Prereq: Open to third and fourth year students; or permission of the Department.

Exclusion: RELG 3550

RELG 3971 (3CR)

RELIGION IN FILM

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.

Prereq: RELG 2401 and 2801; or permission of the Department. (2811 and 2821 are also strongly recommended)

RELG 3981 (3CR)

RELIGIOUS ETHICS AND THE ENVIRONMENT

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.

Prereq: RELG 2401; or permission of the Department.

RELG 4401 (3CR)

HINDUISM AND BUDDHISM IN LITERATURE

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.

Prereq: RELG 3001 or 3101; or permission of the Department.

RELG 4411 (3CR)

ADVANCED 44

RELG 4601 (3CR)
RECENT

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. Programmes

MINOR in Sociology is 24 credits earned as follows

- 3 from Sociology 1001
- 3 from Sociology 2001
- 6 from Social Science at the 1/2000 level
- 12 from Sociology at the 3/4000 levels, chosen in consultation with the Programme Advisor.

MAJOR AREA OF STUDY in Sociology is 60 credits earned as follows

- 3 from Sociology 1001
- 6 from Social Science at the 1/2000 level
- 3 from Sociology 2001
- 3 from Sociology 3301
- 6 from Sociology 3001, 3011
- 12 from Sociology at the 3/4000 levels
- 6 from Sociology at the 4000 level
- 3 further credits in Sociology
- 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 Programme Advisor.

HONOURS in Sociology (Thesis Option) is 66 credits earned as follows

- 42 credits as in the eight lines of the Major, plus:
- 18 from Sociology at the 3/4000 levels chosen in consultation with the Programme Advisor
- 6 from Sociology 4990

HONOURS in Sociology (Course Option) is 66 credits earned as follows

- 42 credits as in the eight lines of the Major, plus:
- 24 from Sociology at the 3/4000 level, including 6 from the 4000 level, chosen in consultation with the Programme Advisor.

Note: The Honours Average will be calculated on all courses required for Honours that have been taken above the 1000 level.

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 Programme Coordinator must be obtained.

SOCIOLOGY COURSES

SOCI 1001 (3CR) INTRODUCTION TO SOCIOLOGY

The course is designed to introduce students to the basic concepts of sociology. These concepts include social structure, culture, socialization, deviance, social control, social organization, structured social inequality, and social change. Extensive use is made of examples from the Canadian context.

Exclusion: SOAN 1001

SOCI 2001 (3CR) PRINCIPLES OF SOCIAL ANALYSIS

A study of the fundamental elements of social analysis from the sociological perspective. The aim is to give students a firm grounding in the general approaches taken in sociology and to promote the particular critical thinking, reading, methodological, and writing skills essential to advanced work in the discipline. This course is a prerequisite for entry into SOCI 3001, 3011 and 3301.

Prereq: SOCI 1001 and 3 credits in Social Science; or permission of the Department

SOCI 3001 (3CR) THEORETICAL FOUNDATIONS OF SOCIOLOGY

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.

Prereq: SOCI 1001, 2001 and 6 credits in Social Sciences at the 1/2000 levels; or permission of the Department

Exclusion: SOAN 3001

SOCI 3011 (3CR) CONTEMPORARY SOCIOLOGICAL THEORY

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.

Prereq: SOCI 1001, 2001, 3001 and 6 credits in Social Sciences at the 1/2000 levels; or permission of the Department

Exclusion: SOAN 3011

SOCI 3111 (3CR) INEQUALITY IN CANADIAN SOCIETY

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.

Prereq: SOCI 1001 and 9 credits in the Social Sciences at the 1/2000 levels; or permission of the Department

Exclusion: SOAN 3111

SOCI 3121 (3CR)

LANGUAGE AND ETHNICITY IN CANADA

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.

Prereq: SOCI 1001 and 9 credits in the Social Sciences at the 1/2000 levels; or permission of the Department

Exclusion: SOAN 3121

**SOCI 4901 (3CR)
ISSUES IN SOCIOLOGY**

A study of specific issues in Sociology or Anthropology.
Prereq: SOCI 3001, 3301 and 3 additional 3000 level credits in Sociology; or permission of the Department.
Exclusion: SOAN 4901

**SOCI 4911 (3CR)
ADVANCED SPECIAL TOPICS IN SOCIOLOGY**

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.
Prereq: SOCI 3001, 3301 and 3 additional 3000 level credits in Sociology; or permission of the Department.
Exclusion: SOAN 4911

**SOCI 4990 (6CR)
HONOURS THESIS**

Prereq: Permission of the Department.

SOCIOLOGY/ANTHROPOLOGY

Note: Interdisciplinary Major Area of Study and Honours in Sociology/Anthropology are also available. See Sociology/Anthropology.

SPANISH STUDIES

See Modern Languages and Literatures, Hispanic Studies

SOCIOLOGY / ANTHROPOLOGY

Interdisciplinary Programme

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 programme 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 programme is designed to provide students with a good grasp of these various perspectives. Most courses offered also integrate material from Sociology and Anthropology.

MAJOR AREA OF STUDY in Sociology / Anthropology

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 Programme Coordinator must be obtained.

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: History, Sociology and Anthropology, Geography, Religious Studies, Philosophy, English, Classics, Psychology, Political Science, Canadian Studies and Modern Languages and Literatures. 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.

MINOR in Women's Studies is 24 credits earned as follows

from Women's Studies 2001, 3001, 3021, 4001

WOST 3001 (3C R)

FEMINIST THEORIES

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

9 CONTINUING AND DISTANCE EDUCATION

The Department of Continuing and Distance Education provides educational opportunities for part-time, mature and evening students. It also provides the opportunity for full-time students to take additional courses. It helps part-time day students through the admissions and registration process and aids them in obtaining needed advice and counselling. The department also assists Student Life with orientation activities for these students.

9.1 EVENING CREDIT PROGRAMME

An evening credit programme consisting of approximately 20 courses each year is offered during the September through April academic year. It is possible for students to earn most of the 120 credits necessary for a B.A. degree through this programme as well as a number of Science and Commerce credits. Evening courses are offered each year in Moncton. Courses may also be arranged in other communities, such as Truro, Parrsboro, and Sussex, upon request. The Department attempts to introduce new courses into this programme to meet changing demands of adult learners.

9.2 INTERSESSION AND SUMMER COURSES

Intersession courses are offered during the period of May - June, in Sackville, Moncton, and Miramichi. These courses expand the offerings of the evening credit programme as well as provide the opportunity for full-time students to take additional courses. Intersession 6 credit courses run four days or evenings a week, for seven weeks in May and June; 3 credit courses run two days or evenings a week during this period. A few summer courses may be offered during the month of July and early August. These run during the day, 2.5 hours per day for 3 weeks (3 credit course) or 2.5 hours per day for 6 weeks (6 credit course). Students in Good Standing may register for a maximum of 6 credits offered through Continuing and Distance Education in each of the Spring and Summer sessions, for a maximum total of 12 credits. Exceptions must be approved in writing by an Academic Dean.

9.3 THE DISTANCE EDUCATION PROGRAMME

The Distance Education programme is offered during both the academic year and the summer. It allows students to acquire credits toward a degree at home. During the fall/winter term, students are given the usual eight months to complete six credits; during the summer they have the option of completing these courses in four months. 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 Distance Education courses must have the approval of an Academic Dean and follow registration and withdrawal deadlines as outlined in the Academic Regulations section.

9.4 FIRST YEAR AT HOME PROGRAMME

The Department coordinates the Mount Allison contribution to the Cooperative University Program on the Miramichi. This programme, offered in partnership with St. Thomas University * Ss08.4635J.pl2e /me,

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 students the opportunity to get involved. Many positions include small honoraria. The SAC also employs an administrator and office manager to aid in its work. The SAC is located in the University Centre.

Some of the services and events we provide include:

- Organizing ORIENTATION, HOMECOMING and WINTER

German or Spanish language and culture the opportunity to live in La Maison Francaise.

Each residence provides a lounge, kitchenette and coin-operated laundry facilities. All residence rooms are completely furnished. Included in residence fees are active cable, local phone and computer hook-ups (students provide the hardware).

Prospective students should note that the University cannot be responsible for personal property. Students are strongly advised to insure personal effects. 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 should complete both sides of the Residence Application card that is enclosed with the offer of admission. This card should be completed and returned to the Office of Student Services along with the Registration deposit and Residence deposit. 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, <sas@mta.ca>, in January, if they wish to live in residence upon their return to Mount Allison.

10.10.3 Non-University Housing

The Student Life Office 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 A. competes in the Atlantic University Sport conference in football, men's and women's soccer, women's rugby, women's volleyball, and 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 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:

The personal counsellors and the Chaplain are available to provide confidential 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 assessed through the personal counsellors.

Emergencies: In an emergency, students may contact Student Life, the Sackville hospital or the psychiatrist-on-call at the Moncton 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 basement of the University Centre and houses information on graduate programmes,

10.14.13 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.

The Office of Student Life and the Meighen Centre (Learning Disabilities) offer a range of services to support the academic needs of students with disabilities. The Meighen Centre offers a range of services to students with learning disabilities and all inquiries related to learning disabilities should be addressed to this office. Student Life coordinates services to students with disabilities other than learning disabilities. Inquiries should be addressed to Student Life.

Copies of the University's Policy on Students With Disabilities may be obtained from Student Life and from the Meighen Centre.

10.15 DISABILITY SERVICES

10.15.1 Support Services

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. The Student Life Office and the Meighen Centre offer a range of services to support the academic needs of students with disabilities. The Meighen Centre offers services to students with learning disabilities and inquiries related to learning disabilities should be addressed to that office. The Student Life Office coordinates services to students with disabilities other than learning disabilities and inquires related to disabilities other than learning disabilities should be addressed to that office. Copies of the University's Policy on Students With Disabilities may be obtained from the Student Life Office or from the Meighen Centre.

10.15.2 Meighen Centre for Learning Assistance and Research

The Meighen Centre for Learning Assistance and Research 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, consultation, access to text books on audio tape and arrangements for special 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 Coordinator of the Meighen Centre at (506) 364-2527.

11 GENERAL INFORMATION

11.1 THE MOUNT ALLISON UNIVERSITY LIBRARIES

The Mount Allison University Libraries include the Ralph Pickard Bell Library, the Alfred Whitehead Memorial Music Library, and the University Archives. The Ralph Pickard Bell Library and the Alfred Whitehead Memorial Music Library provide Mount Allison students and faculty with access to information around the world on-line and through our book and periodical collections. We have 400,000 volumes, 1200 periodical subscriptions, audio and video collections, an electronic reference collection and a collection of e-journals and e-books. 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 and the libraries' staff offer in-depth reference services, in-class instruction and research interviews

LEON ESTABROOKS

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

to all members of the university community through the Helpdesk, student lab advisors and residence network 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 in the Fawcett Building at 10 King Street, Sackville. 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 5-25% 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 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

12 PERSONNEL

12.1 OFFICERS OF THE UNIVERSITY

CHANCELLOR

James J. Keith, B.A., M.A.

PRESIDENT AND VICE-CHANCELLOR

A. Wayne MacKay, B.A., B.Ed., M.A., LL.B.

12.2 THE REGENTS OF MOUNT ALLISON

EX-OFFICIO MEMBERS

A. Wayne MacKay, Sackville, New Brunswick

James J. Keith, Berwick, Nova Scotia

APPOINTED BY THE EXECUTIVE COMMITTEE OF THE BOARD

John Bragg, Oxford, Nova Scotia

David Booth, Richmond Hill, Ontario

Suzanne Crawford, Westmount, Quebec

Cheryl Inman, Dartmouth, Nova Scotia

Mary Keith, Saint John, New Brunswick

Lynn Loewen, Enfield, Nova Scotia

Gordon MacKay, Charlottetown, Prince Edward Island

J. Scott McCain, Toronto, Ontario

Bruce McCubbin, Saint John, New Brunswick

Wylie McMullen, Sackville, New Brunswick

STUDENT REPRESENTATIVES

Michael Belding
 Jennifer Bourque
 Diane MacDonald
 Thea Shaw
 Jacob Stone
 Amanda Wasylishen

ASSOCIATE MEMBERS

Jack Drover, Athletic Director
 Loren McGinnis, President, S.A.C.
 Ben Seamone, Vice-President Academic Affairs, S.A.C.
 John David Stewart, Vice-President Administration

12.4 OFFICERS OF ADMINISTRATION

President and Vice-Chancellor
 A. Wayne MacKay, B.A., B.Ed., M.A., LL.B.

Secretary to the President
 Linda R. Wheaton

Vice-President, Academic and Research
 Michael Fox, B.A., M.A., Ph.D.

Vice-President, Administration
 John David Stewart, B.Sc., LL.B.

Vice-President, External Relations
 Floyd W. Dykeman, B.A., M.P.L.

Dean of Arts
 Kathryn Eryl Hamer, B.A., M.A., Ph.D.

Dean of Social Sciences
 Patrick Baker, B.A., Ph.D.

Dean of Science
 Felix Baerlocher, Dipl.sc.nat., Ph.D., Dr. habil

Acting University Librarian
 Ruthmary Macpherson, B.Sc., M.L.S.

Director of Student Services
 Denise Lauritano, B.A., M.A.

Acting Manager of Admissions, Financial Aid and Scholarships
 Mark Bishop, B.A., C.H.S.C

Manager, Registration and Student Administrative Services
 Michel J. Boudreau

Registrar
 Chris Hunter, B.F.A.

Financial Aid and Awards Counsellor
 Shawn Bellefleur, B.BA

Controller
 Robert Inglis, B.Comm., C.A.

Dean of Students
 Charles W.F. Hunter, B.A., M.A., B.Ed.

Sexual Harassment Advisor
 Melody Petlock, B.A.

Acting Director of Continuing and Distance Education
 Heather Patterson, B.A., M.A.

Director of Alumni and Development
 Gloria Jollymore, B.A., M.B.A.

Secretary of the Senate
 Robert Summerby-Murray, B.A., M.A., Ph.D., A.T.C.L.

Secretary to the Faculty Council
 Margaret Fancy, B.A., M.L.S.

Director of Physical Recreation and Athletics
 Jack Drover, B.P.E., M.A.

Director of Computing Services
 Helmut K. Becker

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

Director of Human Resources
 Ron Sutherland, B.Com.

Director of Facilities Management
 Jeffrey Lamb, B.Eng., M.Eng., P.Eng.

Director of Administrative Services
 Vincent Smyth, B.Sc.

12.5 CHANCELLORS EMERITI

Margaret Norrie McCain, O.C., B.A., B.S.W, LL.D
 The Very Rev. Angus James MacQueen, B.A., B.D., D.D., LL.D.
 Harold Purdy Crawford, O.C., Q.C., B.A., LL.M., LL.D.

12.6 PRESIDENTS EMERITI

Laurence Harold Cragg, B.A., M.A., Ph.D., D.C.L., D.Sc. LL.D., F.C.I.C., F.R.S.A.

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

Dr. Ian David Campbell Newbold, 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

Graham, Adams, Jr., B.A., M.A., Ph.D. Professor of History, Emeritus

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

Clifford Marsden Allen, B.Sc., M.Sc., Professor of Geology, 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. Sc., P.Eng. Professor of Engineering, Emeritus

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

Christine Murdock Cavanagh, B.Sc., M.A. Professor of Home Economics, Emeritus

William Bannerman Cunningham, B.A., M.A., Ph.D. Professor of Economics, Emeritus

Lloyd Allison Duchemin, B.A., M.A., Ph.D. Professor of English, Emeritus

Carleton Weir Elliott, B.Mus., M.Mus., Professor of Music, Emeritus

Laing Ferguson, B.Sc., Ph.D, Professor of Geology Emeritus

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

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

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., M.A., Ph.D., Professor of Religious Studies Emeritus

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

Raghavachar Scrinivas Iyengar, B.Sc., M.A., M.Sc. Professor of Mathematics and Computer Science, 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 Horace Matthews, B.Sc., M.Sc., Ph.D. Professor of Physics, Emeritus

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

John Carman Gailey Moore, B.A., M.Sc., Ph.D. Professor of Geology, 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

Dr. 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

Louise Van Duyn Seaman, B.Sc., M.A. Professor of Home Economics, Emeritus

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

Wilson Burnett Stallworthy, B.A., Ph.D., Professor of Biology, Emeritus

George Francis Gilman Stanley, C.C., K.St.J., B.A., M.A., M.Litt., D.Phil., D-es-L., D.Lit., D.Litt., LL.D., D.C.L., D.U., F.R.Hist.S., F.R.S.C. Professor of Canadian Studies, Emeritus

John A. Stanton, B.A., M.A., Ph.D. Professor of History Emeritus

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

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

12.9 LIBRARIANS EMERITI

Eleanor Eileen Magee, B.A., B.Sc., B.L.S., M.L.S.

Himansu Bhusan Mitra, B.A., A.L.A.

12.10 ACADEMIC STAFF

12.10.1 Professors

Department of Biology and Biochemistry Programme

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 Interim Dean of Science.

Bailey, John, B.Sc., M.Sc. (Ottawa); Ph.D. (British Columbia); Assistant Professor of Biology

Beaton, Margaret, B.Sc. (Guelph); MSc. (Windsor); PhD. (Guelph); Assistant Professor

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

Clair, Thomas, B.Sc. (Mt. Allison); M.Sc. (Ottawa); Ph.D. (McMaster); Adjunct Professor of Biology

Currie Suzanne, B.Sc. (Acadia), M.Sc, Ph.D. (Queen's); Assistant Professor

Giberson, Donna J., B.Sc. (Calgary); M.Sc., Ph.D. (Manitoba); Adjunct 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

Stewart, John M., B.Sc. (Saskatchewan); M.Sc. (Regina); Professor of Biochemistry.

Thompson, Robert G., B.Sc. (Queen's); M.Sc., Ph.D. (Simon Fraser); Professor of Biology and Acting Head of Department.

Department of Chemistry

Barclay, Lawrence Ross Coates, B.Sc., M.Sc. (Mount Allison); Ph.D. (McMaster); Research Professor

Briand, Glen Gerard, B.Sc. (StFX); PhD. (Dalhousie); Assistant Professor

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

Grant, Andrew, B.Sc. (Queen's); Ph.D. (New Brunswick); Assistant Professor

Johnson, Michael, B.A.Sc., M.Sc., (Missouri); Ph.D. (New Mexico State); Adjunct Professor

Langler, Richard F., M.Sc. (U.N.B.); B.Sc., Ph.D. (Dalhousie); Professor.

Read, John Frederick, B.Sc., Ph.D. (Nottingham); Professor and Head of the Department.

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. (University of Michigan); Adjunct Professor

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

Department of Mathematics and Computer Science

Baker, Catharine Anne, B.Sc., M.Sc., Ph.D. (McMaster); Professor and Acting Head of Department.

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.

Dekster, Boris V., M.Sc., Ph.D. (Leningrad); Professor.

Edmunds, Margaret, B.A., B.Comm. (Mount Allison); Part-time Lecturer.

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

Miller, Boyd Arthur, B.A. (Hiram); M.A., Ph.D. (Syracuse); Professor.

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

Department of Modern Languages and Literatures

Boehringer, Monika, B.A. (Brock), M.A. (McMaster), Ph.D. (Toronto); Assistant Professor of French.

Burnett, Wendy, B.A. (Western Ontario); M.A. (Moncton); Part-time Lecturer in Linguistics and Director of the Language Laboratory.

Cenerelli, Bettina B., 1. Staatsexamen (Berlin), Dr. Phil. (Siegen); Assistant Professor of French

Deniger, Martine, B.A. (Montreal); Part-time Lecturer in French.

Edwards, Peter J., B.A. (St. Bernard's Seminary); B.A. (Louvain); M.A., Ph.D. (Fordham); Professor of French and Head of Department.

Fancy, Alex, B.A. (Mount Allison); M.A. (Western Ontario); Professor of French and Director of Drama

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

Hamer, Kathryn Eryl, B.A., M.A., Ph.D. (Toronto); Professor of French and Dean of Arts.

Hempel, Rainer Lutz, B.A., M.A., Ph.D. (U.B.C.); Associate Professor of German.

Joerger, Thilo K., B.A., M.A., Ph.D. (Waterloo); Professor of German.

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

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

Oe, Miyako, B.Ed., M.A. (Ochanomizu); Instructor of Japanese.

Weiss, Judith A. B.A. (McGill); M.A., Ph.D. (Yale); Professor of Spanish.

Welch, Liliane, B.A., M.A. (Montana); Ph.D. (Penn. State); Professor of French.

Department of Music

Altman, William, B.Mus. (Saskatchewan) M.Mus.(Nebraska-Lincoln); Lecturer

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.

Dawe, Edmund, B.Mus., B.Mus.Ed. (Memorial); M.Mus. (Western Ontario); D.M.A. (U.B.C.); Associate Professor and Head of the Department.

Ellard, Brian J., B.Mus., M.A., Ph.D. (Rochester); Professor.

Ferguson, Danise Joy, B.Mus. (Calgary); M.Mus. (Western Ontario); Associate Professor.

Higham, Peter, B.A., M.Mus. (Alberta); M.L.S. (U.B.C.); L.R.A.M. (London); Part-time Lecturer.

Mark, James, B.Mus. (Rochester); M.Mus (Hartford); D.M.A. (Michigan); Professor.

Mark, Penelope Burridge, B.Mus. (Mount Allison); A.R.C.M. (London); Part-time Lecturer in Music

Pridmore, Helen, B.Mus. (Saskatchewan); M.Mus. (Toronto); D.M.A. (Rochester); Assistant Professor.

Rogosin, David, B.Mus., M.Mus. (Montreal); D.M.A. (U.B.C.), Assistant Professor

Stark, James A., B.A. (Minnesota); M.Mus., Ph.D. (Toronto); Professor.

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

Vogan, Nancy F., B.A. (Mount Allison); M.Mus., Ph.D. (Rochester); Professor.

Department of Philosophy

Bogaard, Paul, B.A. (Central College); M.A., Ph.D. (Emory); Professor and Head of the Department .

Houle, Karen, B.Sc. (Guelph), M.A. (Guelph) Ph.D. (Guelph) in progress
McCain Fellow

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

Welch, Cyril, B.A. (Montana), M.A., Ph.D. (Penn. State); Professor.

Department of Physics

Ahmady, Mohammad Reza, B.Sc. (Shiraz), M.Sc., Ph.D. (Western Ontario); Assistant Professor of Physics

Bruning, Ralph, B.Sc. (Kiel); M.Sc., Ph.D (McGill); Associate Professor of Physics.

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

Hawkes, Robert Lewis, B.Sc., B.Ed. (Mount Allison); M.Sc., Ph.D. (Western Ontario); Professor of Physics and Head of Department.

Varma, Pravin Kumar, B.E. (Jodhpur); M.E. (N.S.T.C.), B.Ed. (Mount Allison); P.Eng.; Professor of Physics.

Department of Political Science

Cross, William, B.A. (Waterloo); M.P.S. (George Washington); J.D. (Houston); M.A., Ph.D. (Western Ontario); Assistant Professor

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

Michaelis, Lorealea, B.Ind.St.(Waterloo) MA;Ph.D. (Toronto); 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 and Head of the Department

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

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

Nicholson, Karen, B.Sc. (Lethbridge), M.Sc., Ph.D. (Western); Assistant Professor

Storm, Christine, B.A. (Auckland); M.A., Ph.D. (U.B.C.); Professor.

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

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

Grant, Malcolm Colin, B.A. (Mount Allison); B.D. (Pine Hill); Ph.D. (Edinburgh).

McCullough, Marilyn, B.A. (Michigan State); M.A. (Cornell); Part-time Lecturer.

Perkin, John Conway, B.A., M.A. (Acadia); M.Div. (McMaster); Part-time Lecturer.

Department of Sociology/Anthropology

Adlam, Robert, B.Sc. (Trent); M.A., Ph.D. (Toronto); Associate Professor.

Baker, Patrick, B.A. (Oxon); Ph.D. (Wales); Professor, Head of the Department and Dean of Social Science.

Campbell, Brian Lewis, B.A. (Guelph); B.Phil (York, Eng.); Ph.D. (McMaster); Associate Professor.

Fleming, C.E. Berkeley, B.A., M.A., (McGill); Associate Professor.

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

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

Walsh, Andrew, B.A., M.A. Ph.D.(Toronto) Assistant Professor

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.

Gullikson, Shelley, B.A. (Toronto); MLIS (Dalhousie); Information Literacy Coordinator

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12.11 MEIGHEN CENTRE FOR LEARNING ASSISTANCE AND RESEARCH

12.10.2 Librarians

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